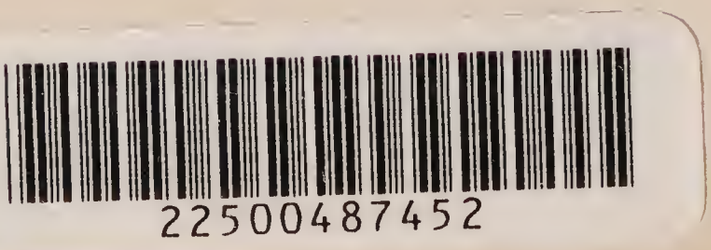
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40TH CONGRESS, 3d Session. } HOUSE OF REPRESENTATIVES. { Ex. Doc. No. 52.

ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS,

FOR

THE YEAR 1868.

VOLUME III.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1869.

IN THE HOUSE OF REPRESENTATIVES,
April 9, 1869.

Resolved by the House of Representatives, (the Senate concurring,) That there be printed thirty thousand extra copies of the next Report of the Commissioner of Patents, of which seventeen thousand shall be for the use of the House, eight thousand for the use of the Senate, and five thousand for the use of the Commissioner of Patents.

Attest:

EDW. McPHERSON, *Clerk.*

IN SENATE OF THE UNITED STATES,
December 9, 1869.

Resolved, That the Senate agree to the resolution of the House of Representatives relative to printing the Report of the Commissioner of Patents.

Attest:

GEO. C. GORHAM, *Secretary.*

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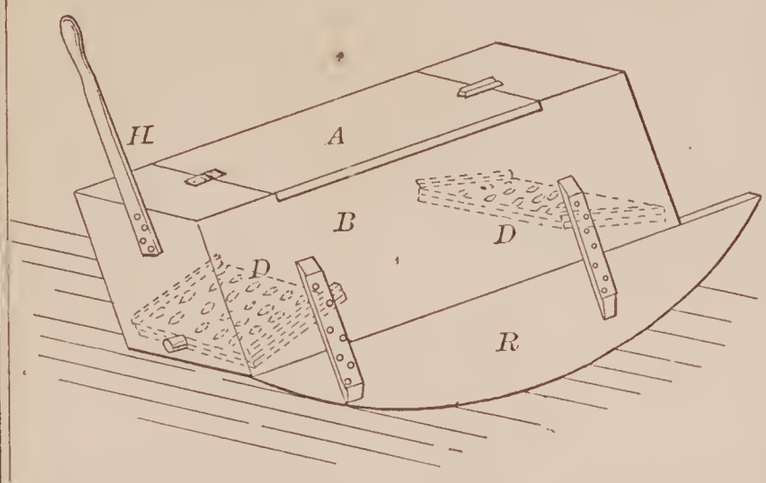
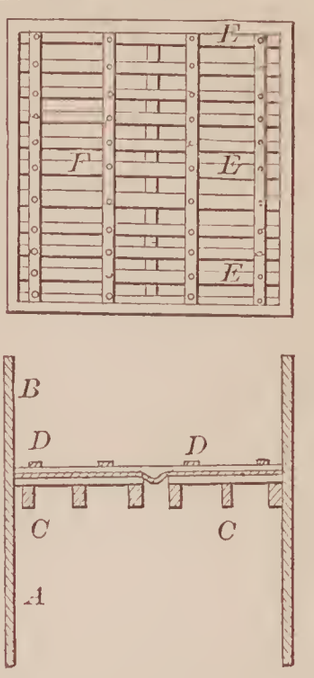
ILLUSTRATIONS OF PATENTS.

72959—H. W. Adams—*Churn.*

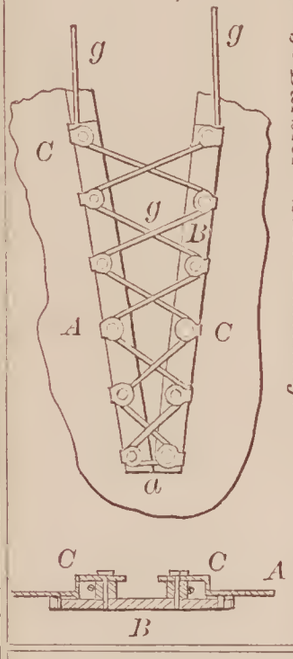


72960—J. Barbian—*Ice House Floor.*

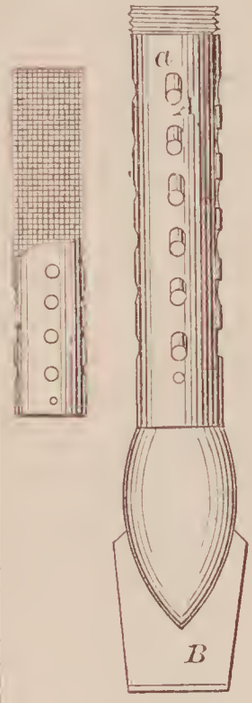


72967—D. C. Brown—*Loom Harness.*

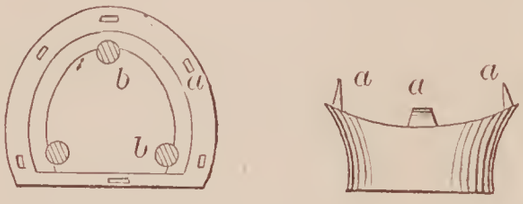
72961—J. Barbier—*Shoe Fastening.*



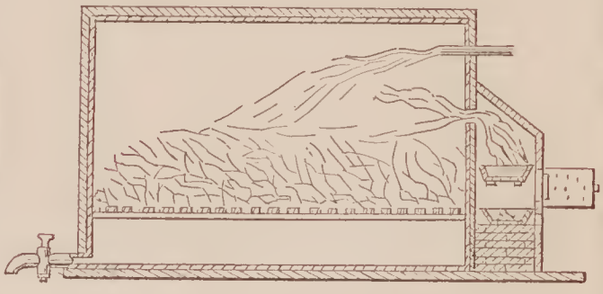
72962—Barr & McGuire—*Well.*



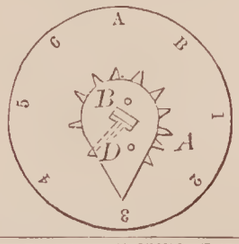
72963—G. Beaty—*Boot and Shoe Heel.*



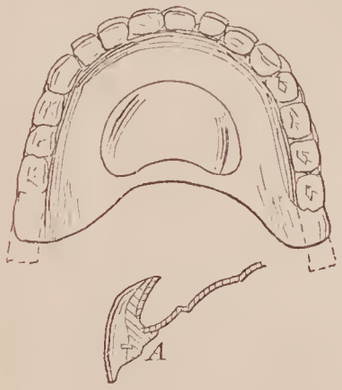
72966—Boynton & McGaw—*Removing Burrs and other Vegetable Matter from Wool.*



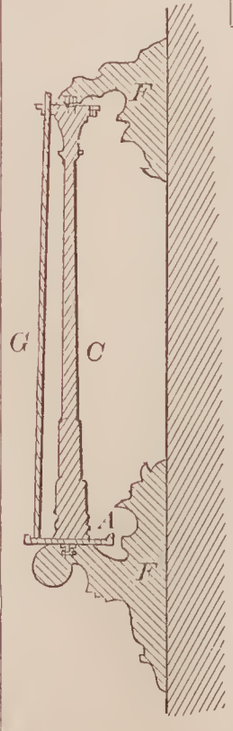
72965—V. W. Blanchard—*Baggage Check.*



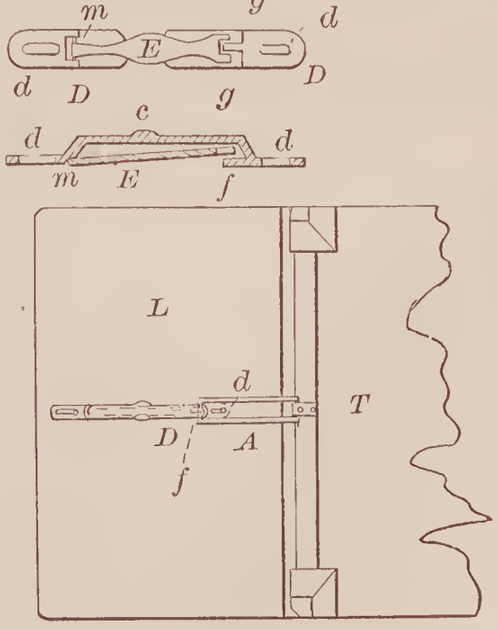
72968—T. Y. Brown—*Fastening Artificial Teeth.*



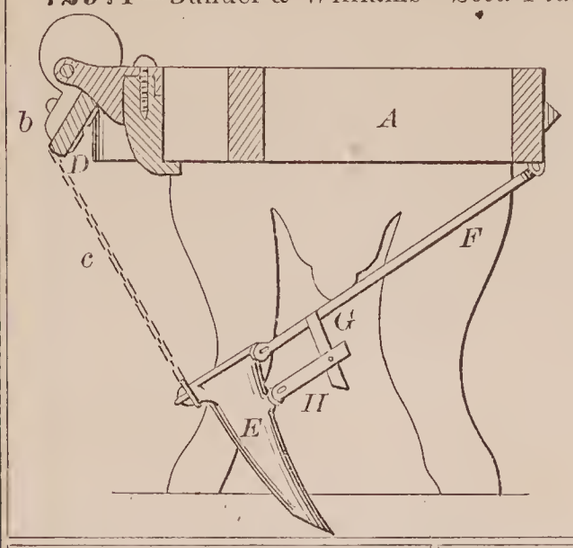
72969—E. Brunswick—*Billiard Cue Rack.*



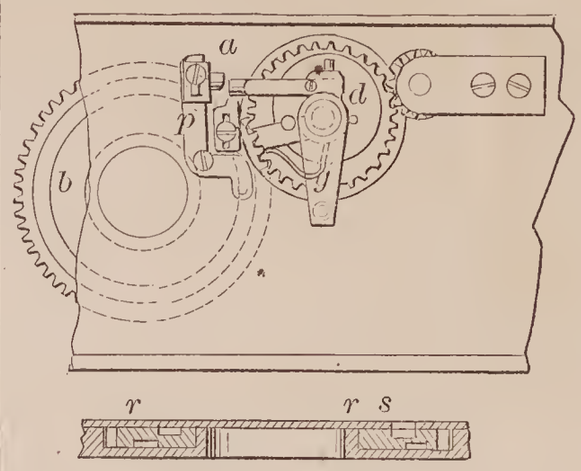
72970—D. Bull—*Table Leaf Support.*



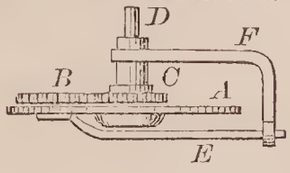
72971—Bundel & Williams—*Seed Planter.*



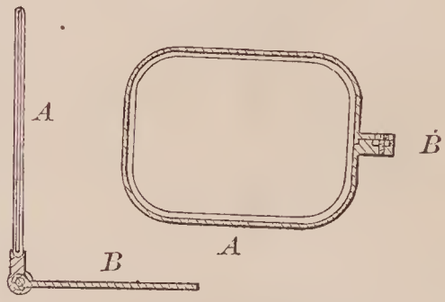
72974—W. Chicken—*Sewing Machine.*



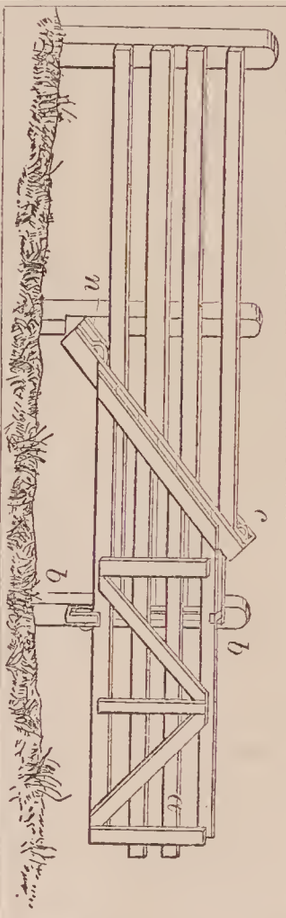
72972—H. C. Burk—*Mechanical Movement.*



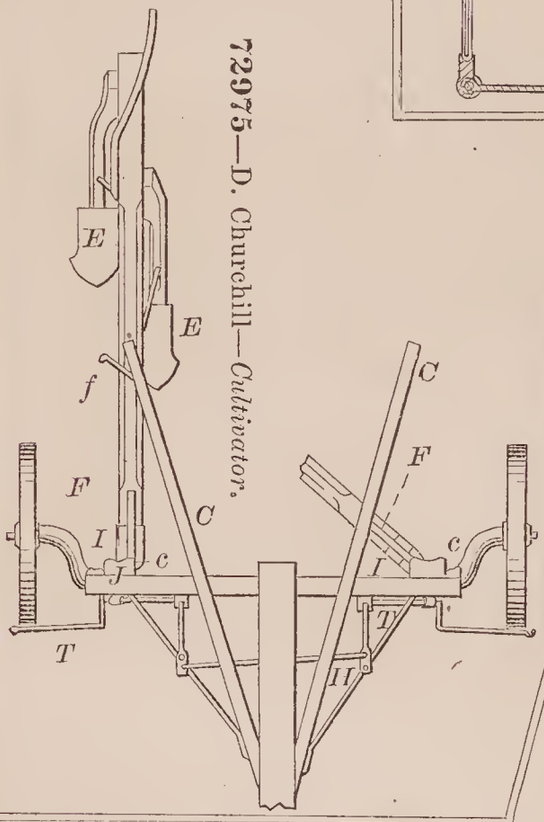
72978—E. M. Cole—*Eye Glass.*



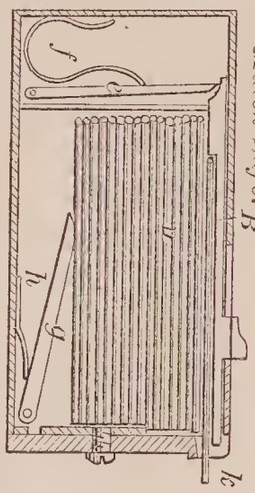
72976—W. D. Clark—*Farm Gate.*



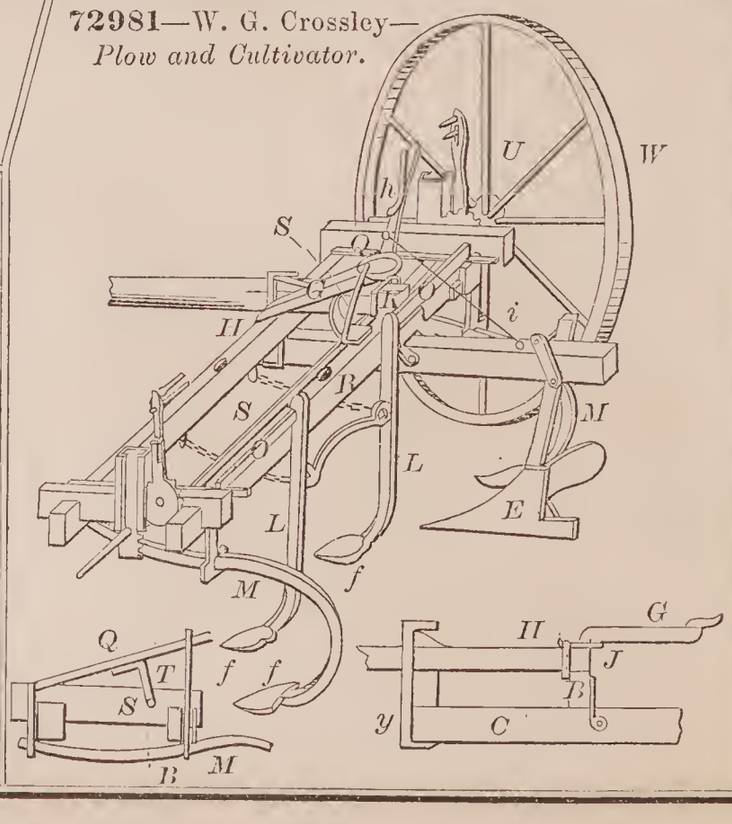
72975—D. Churchill—*Cultivator.*



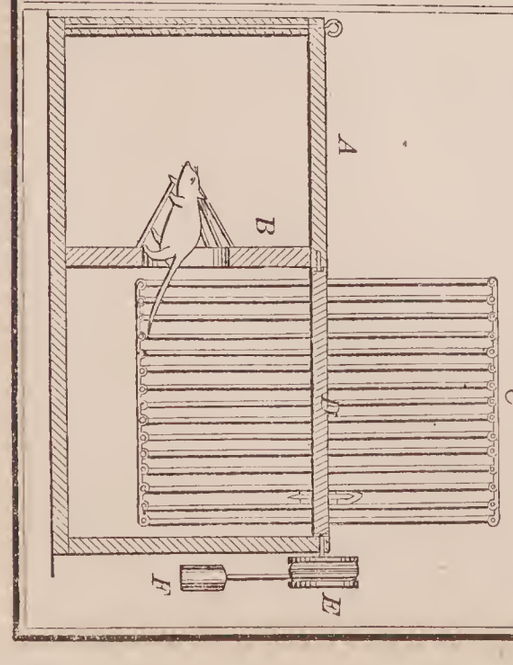
72973—P. D. M. Carmichael—*Match Safe.*



72981—W. G. Crossley—*Plow and Cultivator.*



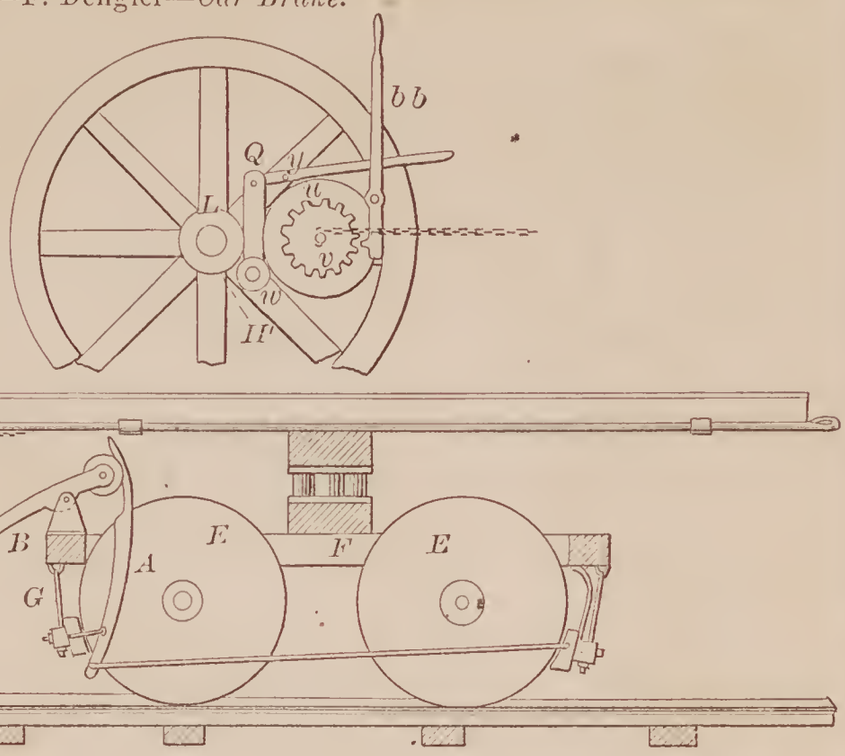
72979—W. Cover—*Animal Trap.*



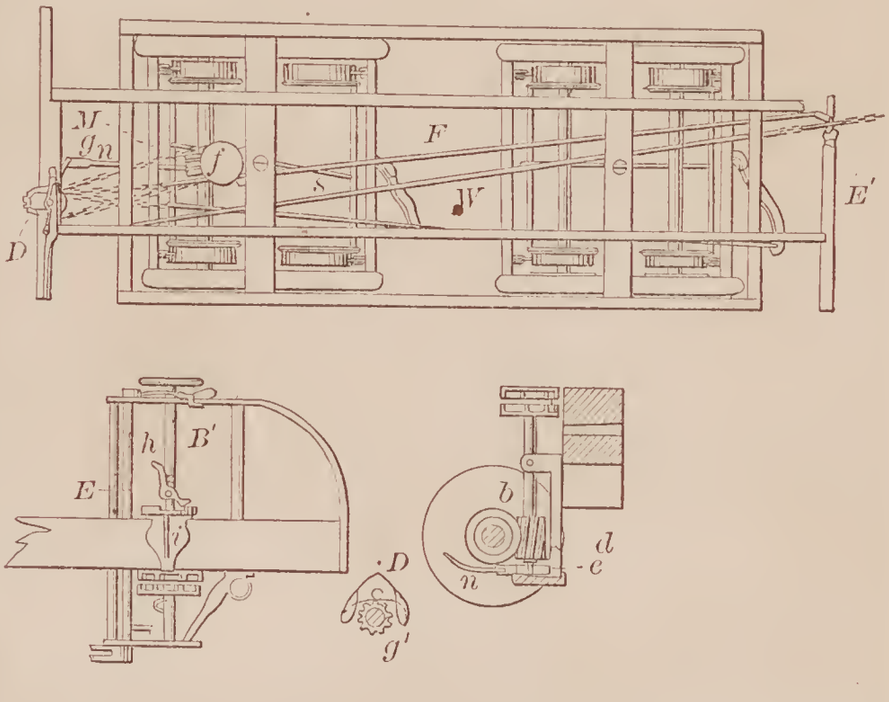
72982—T. Cullen—*Cartridge for Small Arms.*

72983—J. Davis—*Saw.*

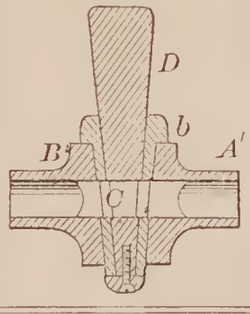
72984—F. Dengler—*Car Brake.*



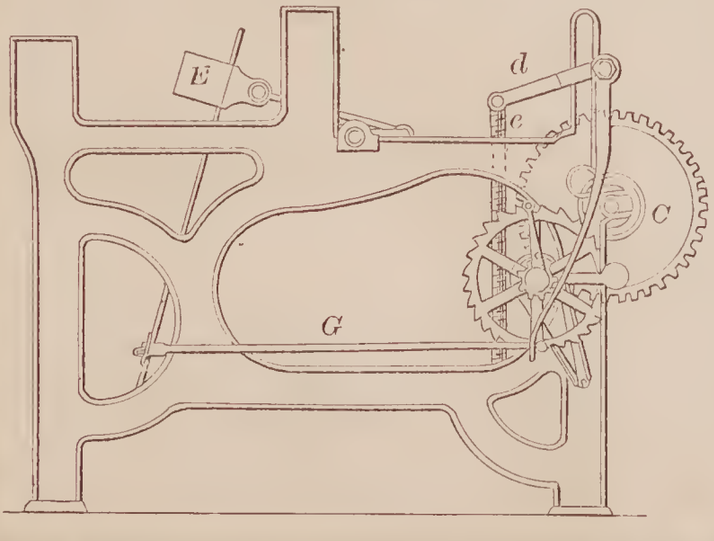
72985—Dick & Preston, Jr.—*Car Brake.*



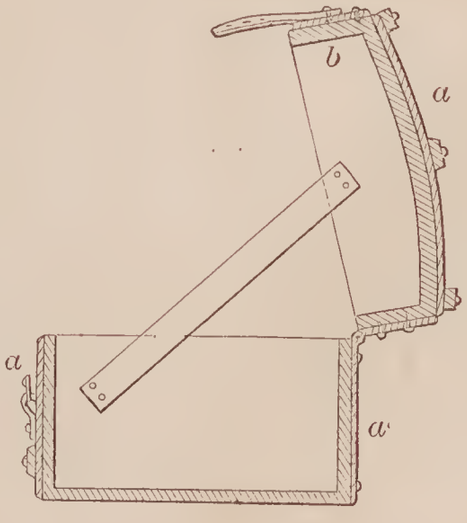
72986—J. Doering—*Stop Cock.*



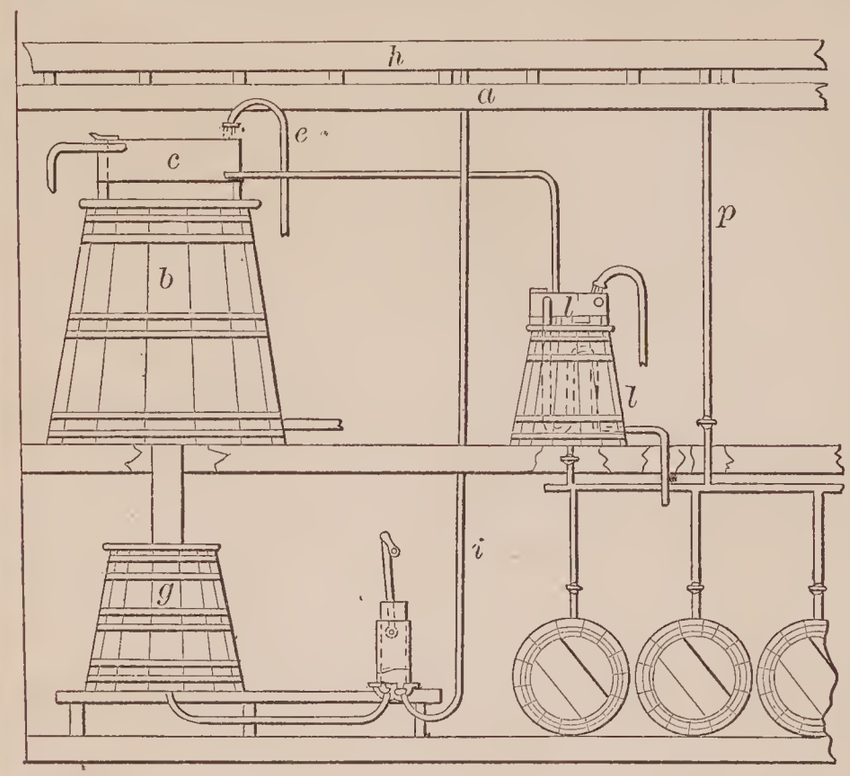
72987—G. Draper—*Let-off Mechanism for Looms.*



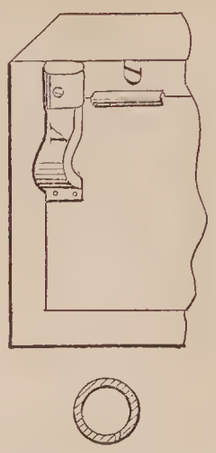
72988—J. S. Eaton—*Trunk.*



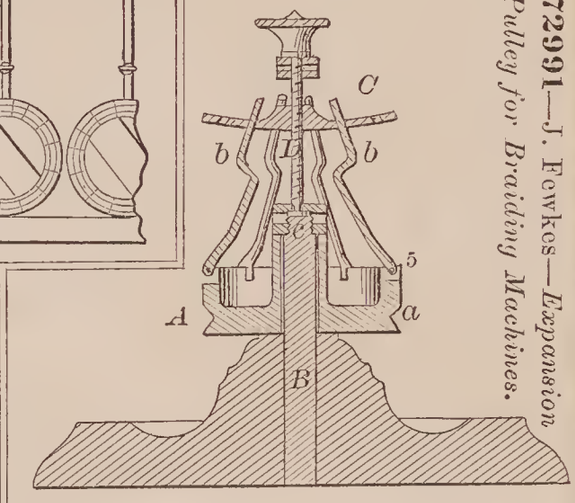
72989—W. H. Elliott—*Brewing.*



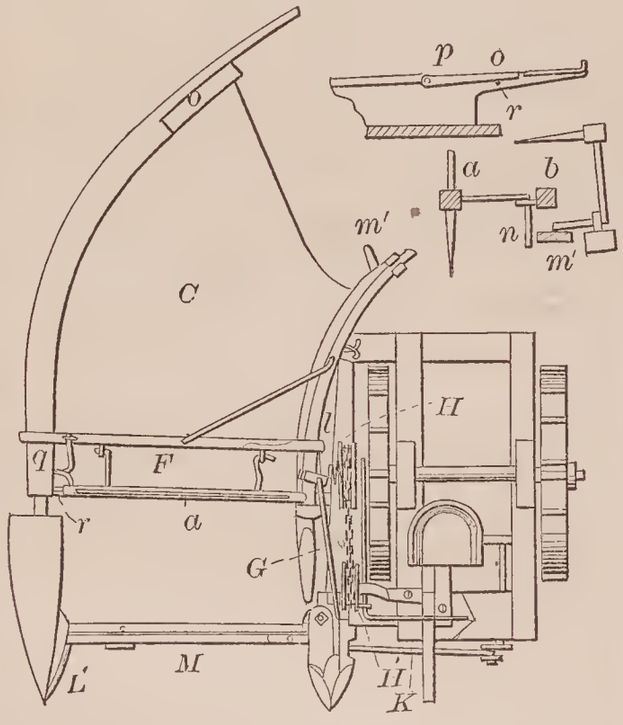
72992—B. G. Fitzhugh—*India Rubber Door Spring.*



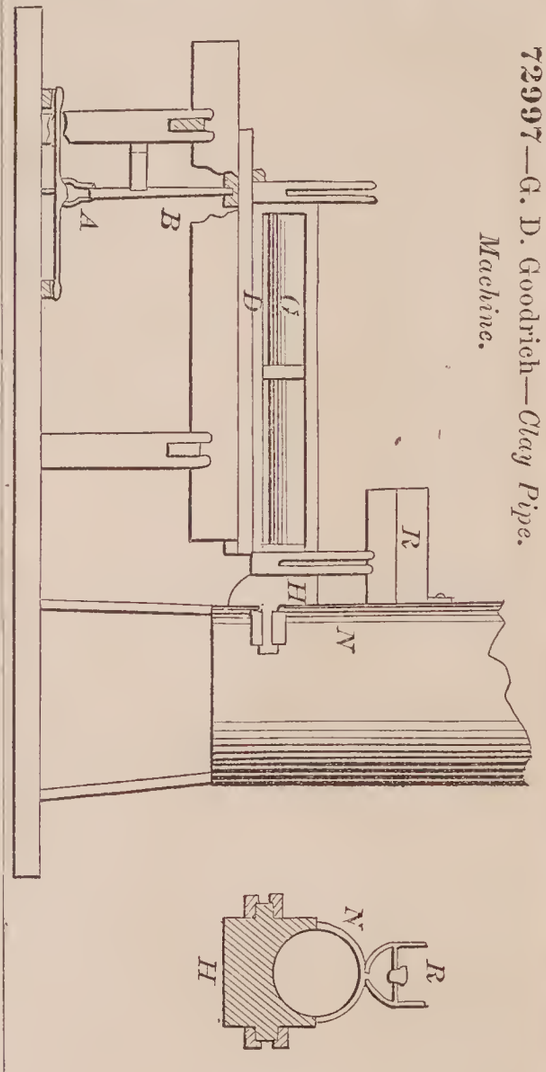
72991—J. Fewkes—*Expansion Pulley for Braiding Machines.*



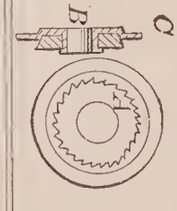
72990—V. H. Felt—*Harvester Rake.*



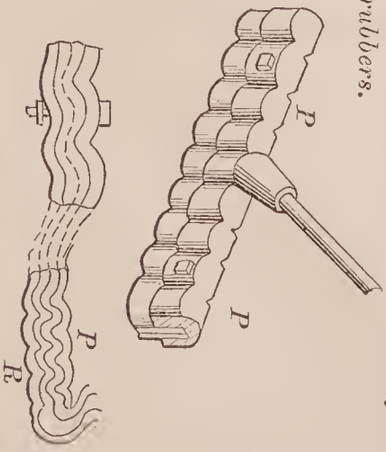
72997—G. D. Goodrich—*Clay Pipe. Machine.*



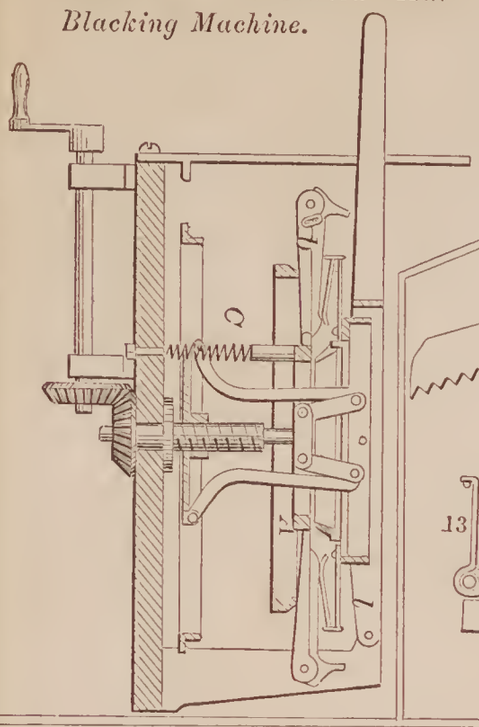
72995—L. M. Gilbert—*Scissors Sharpener.*



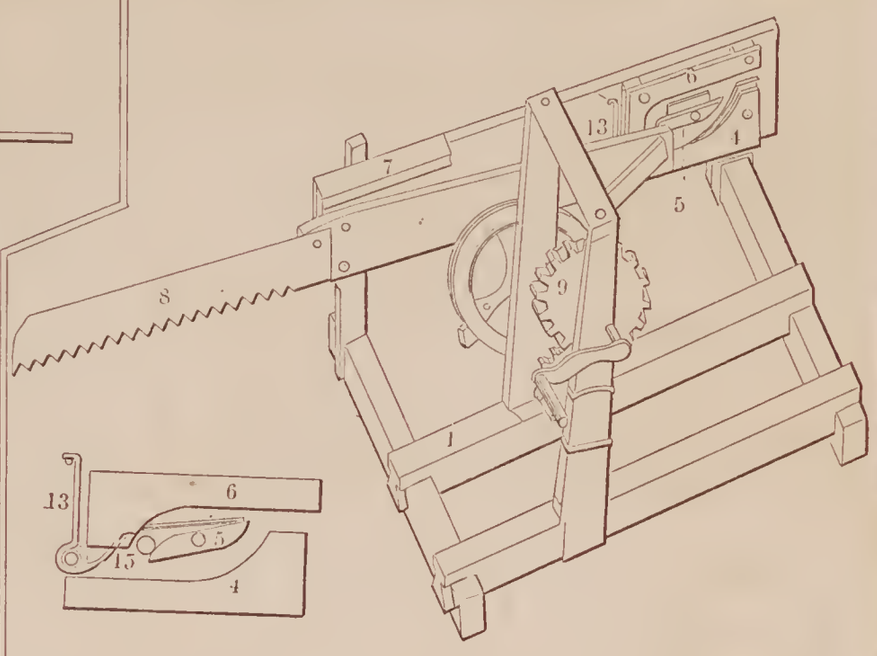
72993—L. Fleckenstine—*Holder for Gum Scrubbers.*



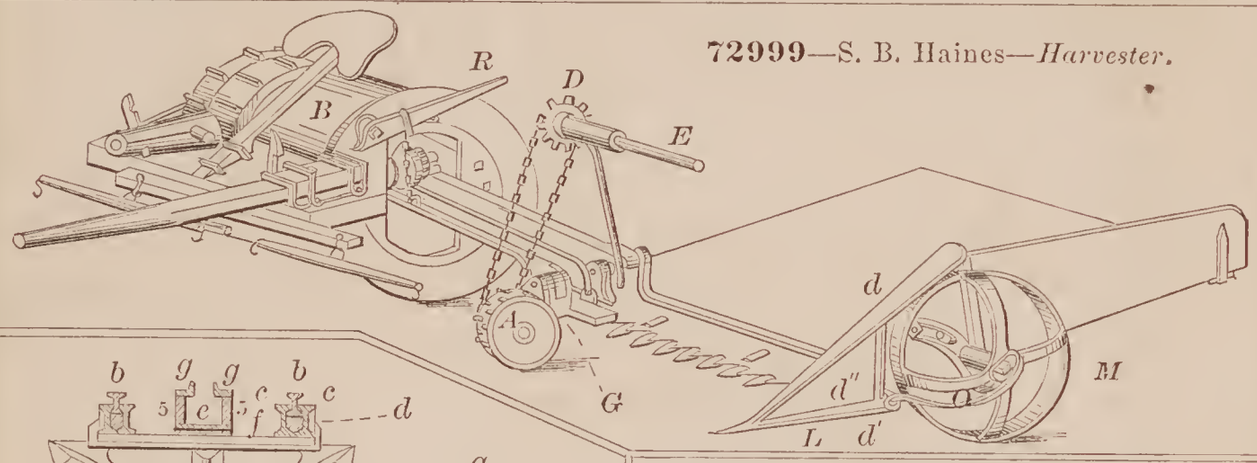
72998—W. C. Griswold—*Hat Blacking Machine.*



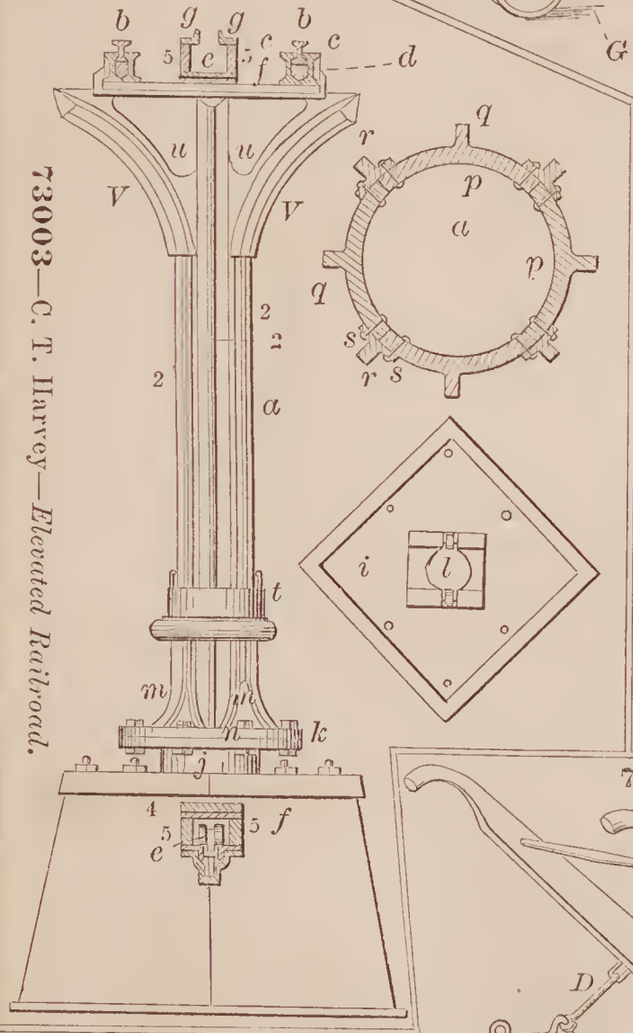
73000—J. R. Harmon—*Sawing Machine.*



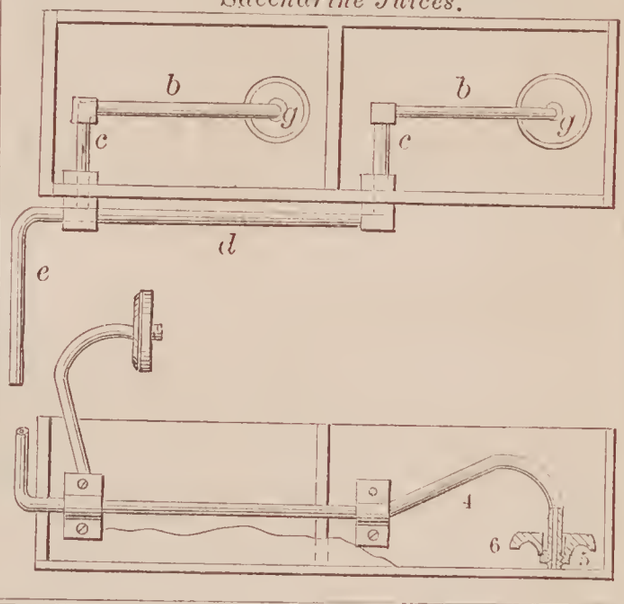
72999—S. B. Haines—*Harvester.*



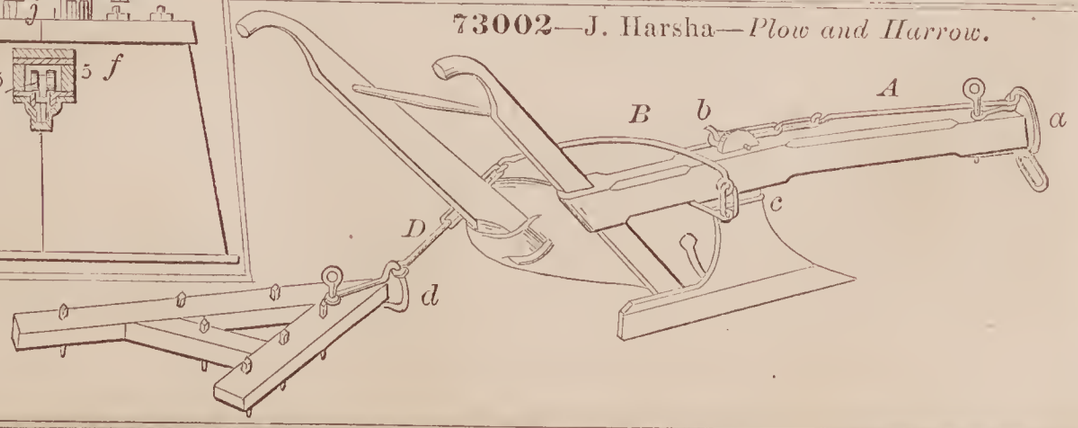
73003—C. T. Harvey—*Elevated Railroad.*



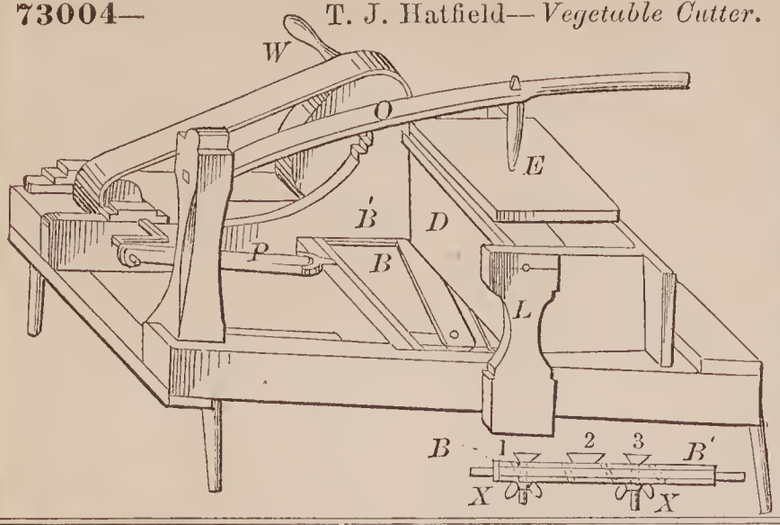
73001—L. P. Harris—*For Clarifying Saccharine Juices.*



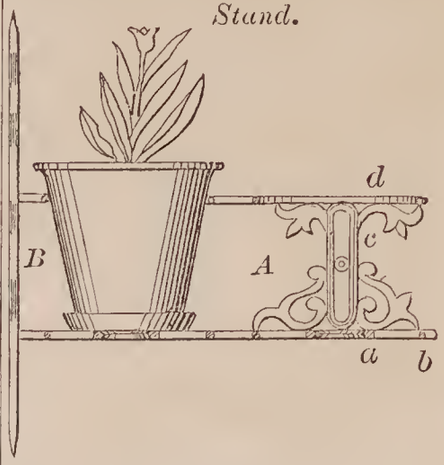
73002—J. Harsha—*Plow and Harrow.*



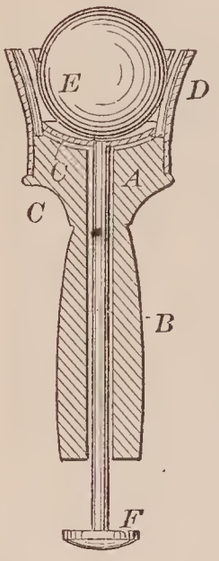
73004— T. J. Hatfield—*Vegetable Cutter.*



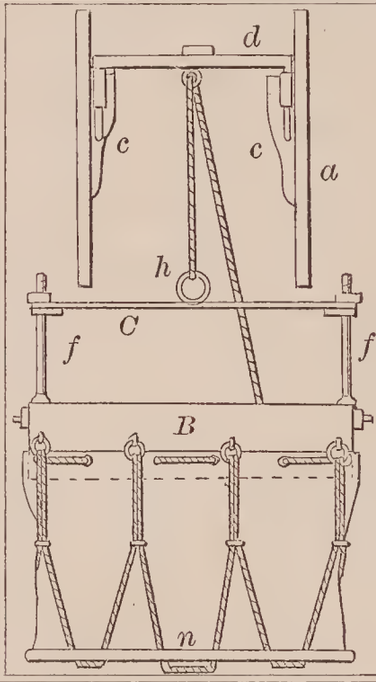
73005—C. J. Hauck—*Flower Stand.*



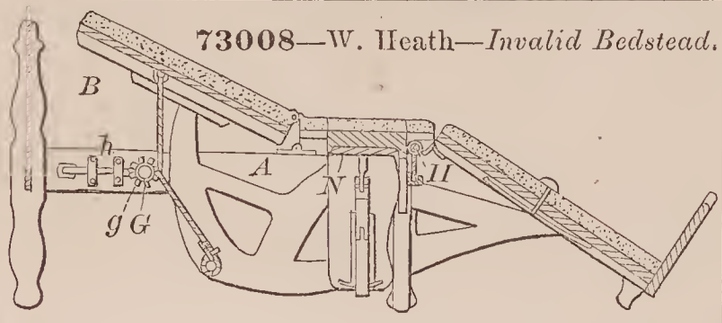
73006—J. E. Hawkins—*Toy.*

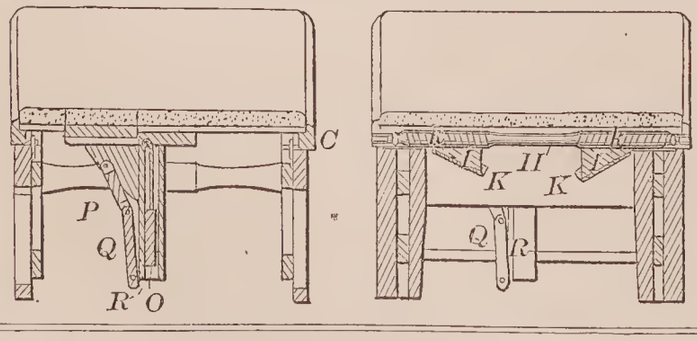


73007—E. Hawthorne—*Fire Escape.*

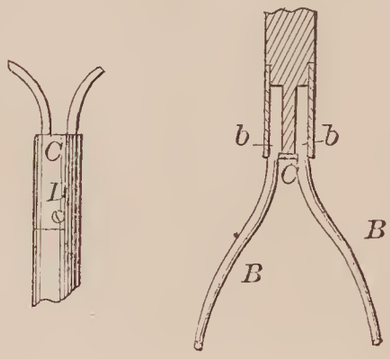


73008—W. Heath—*Invalid Bedstead.*

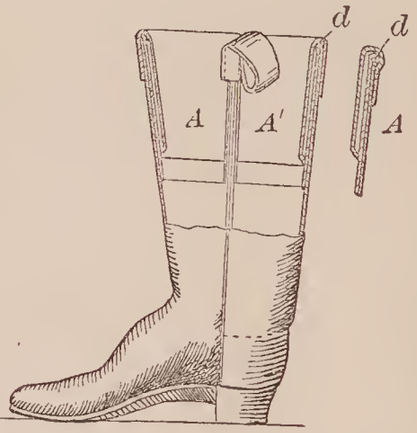




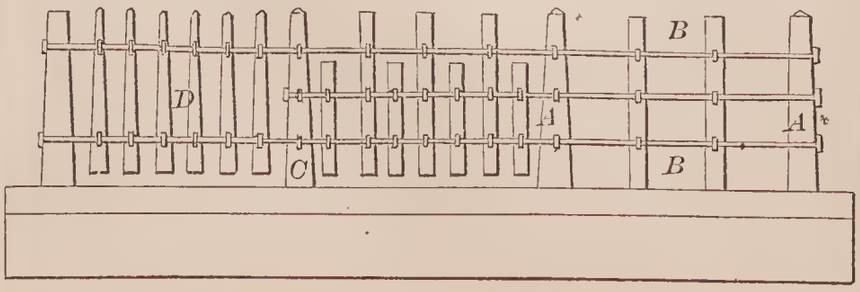
73009—J. G. Hitchcock—*Hay Fork.*



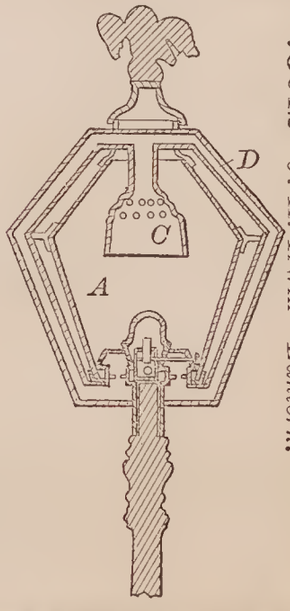
73010—J. Holland—*Boot.*



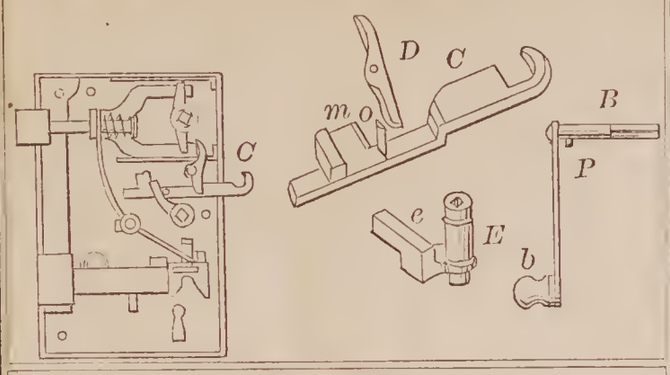
73011—D. S. Humphrey—*Field Fence.*



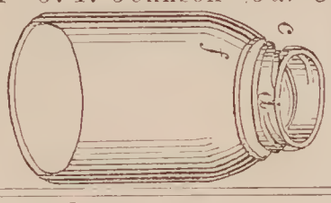
73012—J. H. Irwin—*Lantern.*



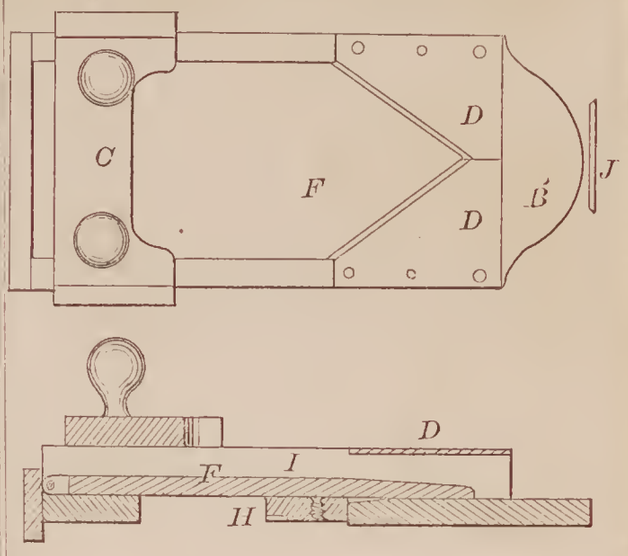
73013—A. Iske—*Door Alarm Lock.*



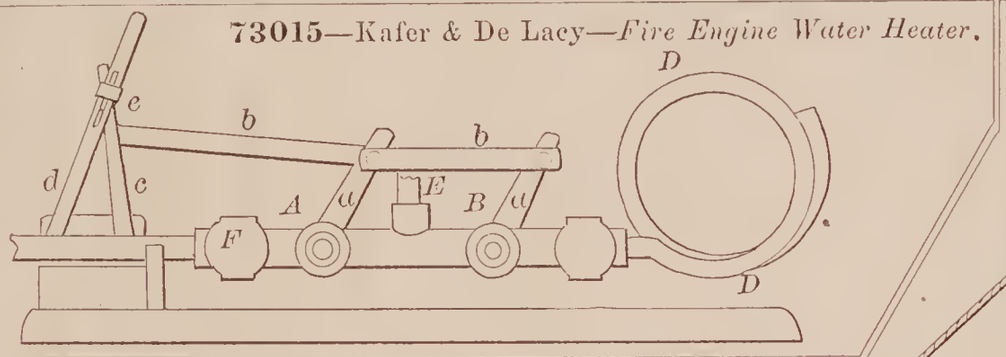
73014—J. F. Johnson—*Jar Cover Fastening.*



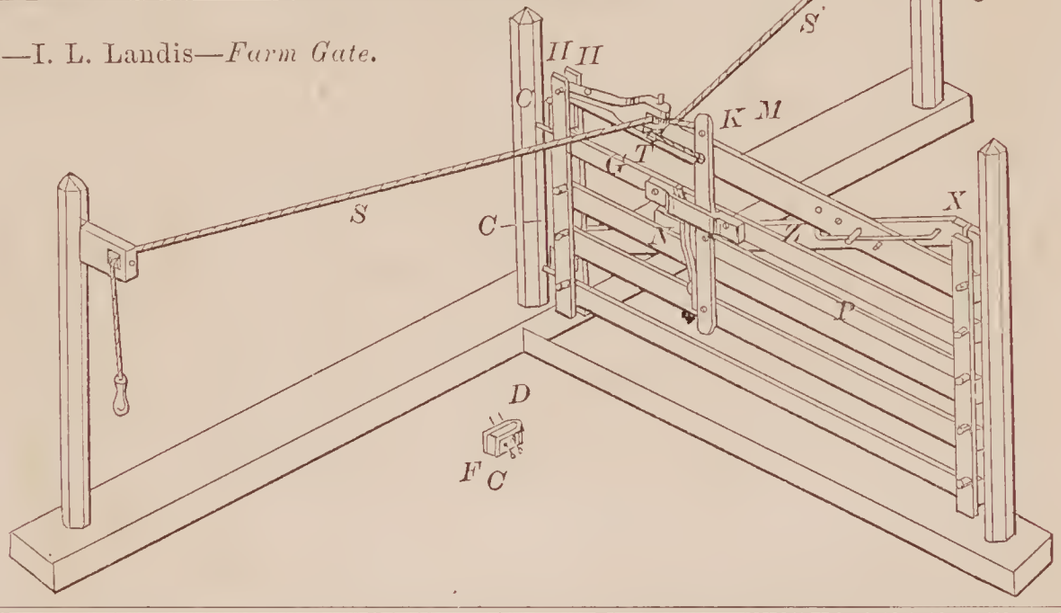
73017—Madden & Haserot—*Bread Cutter.*



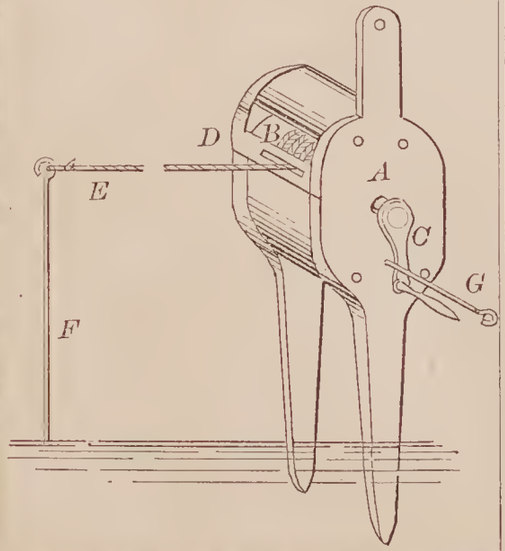
73015—Kafer & De Lacy—*Fire Engine Water Heater.*



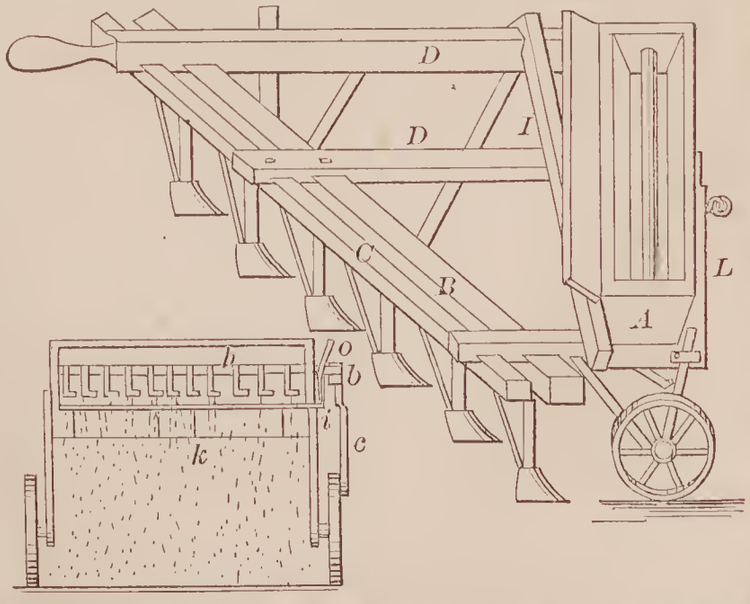
73016—I. L. Landis—*Farm Gate.*



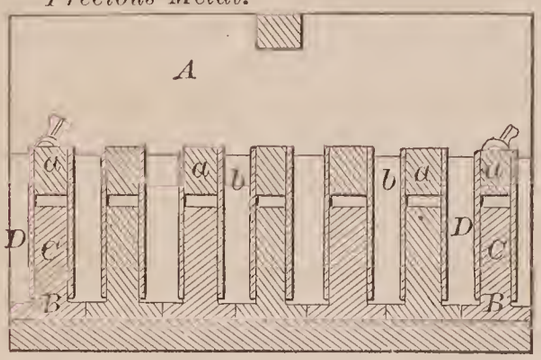
73019—L. Martin—*Line Reel.*



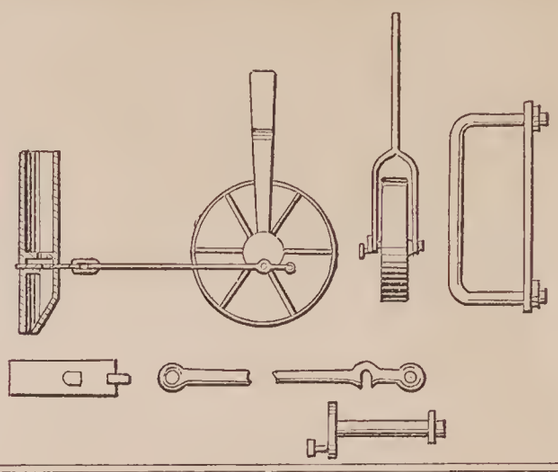
73020—H. S. Matteson—*Seeder and Cultivator.*



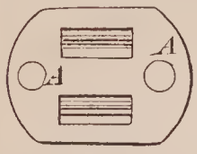
73021—J. T. McDougall—*For Collecting Precious Metal.*



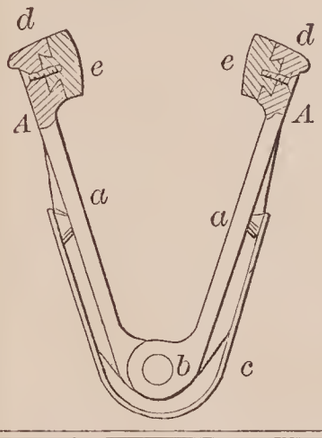
73022—P. McIsaac—*Corn Planter and Plow.*



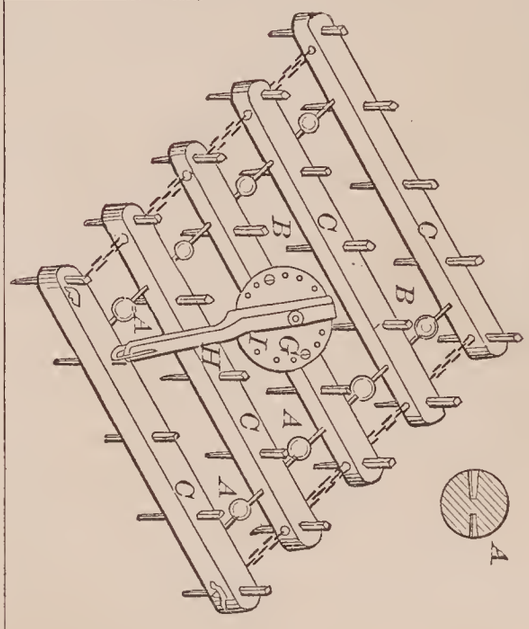
73026—C. Mudge—*Cotton Bale Tie.*



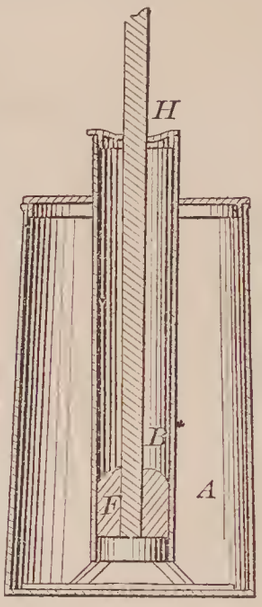
73028—H. O. Nauen—*Vise Clamp.*



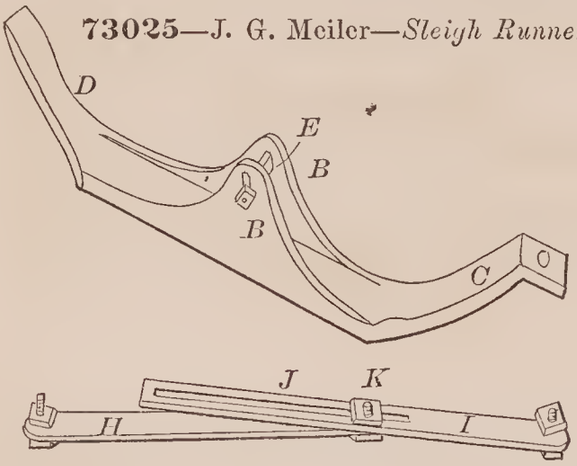
73024—J. Mercier—*Harrow.*



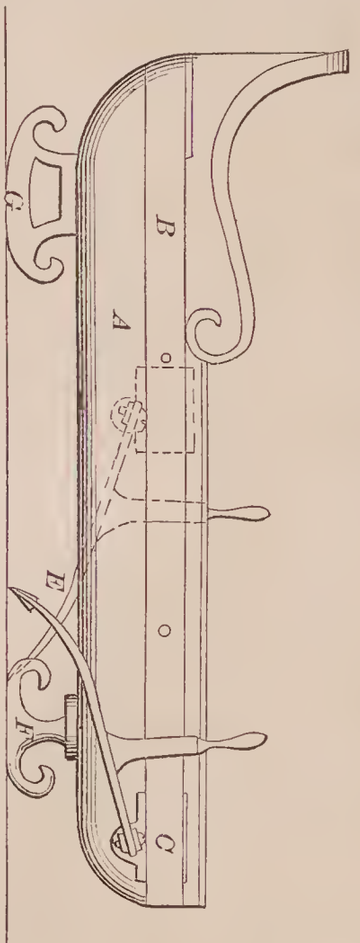
73023—G. McWilliams—*Churn.*



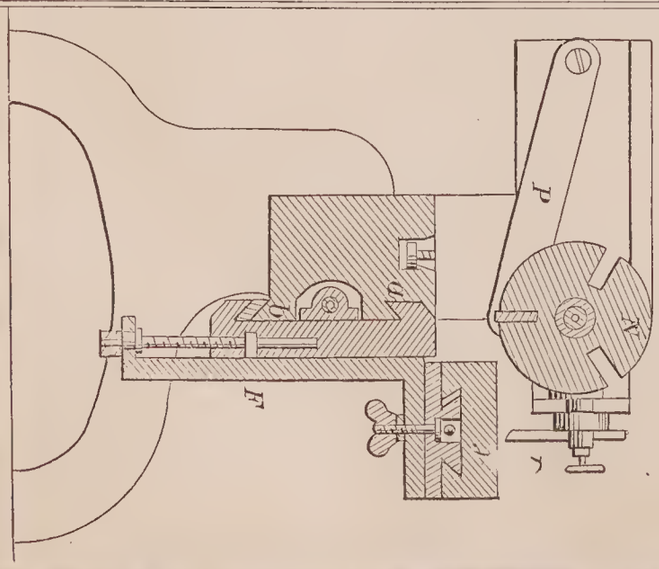
73025—J. G. Meiler—*Sleigh Runner.*



73029—M. Newman—*Velocipede.*

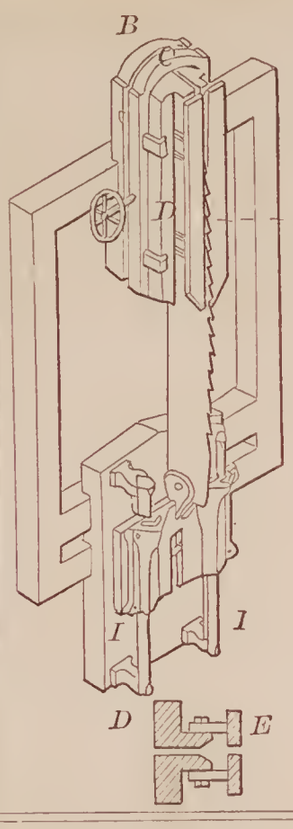


73027—L. F. Munger—*Lathe.*

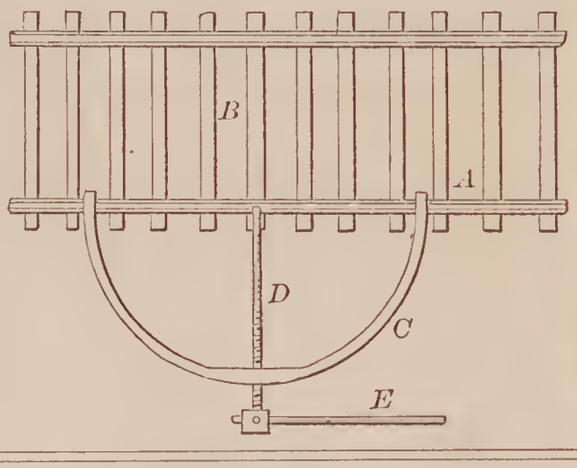


73030—I. W. Noreross—*Pulley Block.*

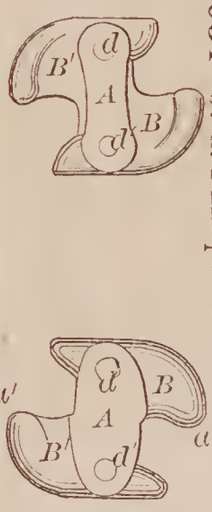
73031—C. D. Olmstead—*Saw Mill.*



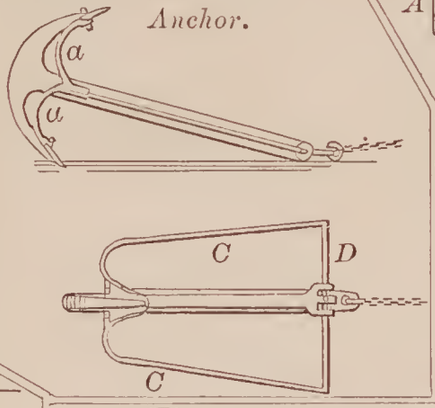
73033—G. Patterson—*Rail Sett.*



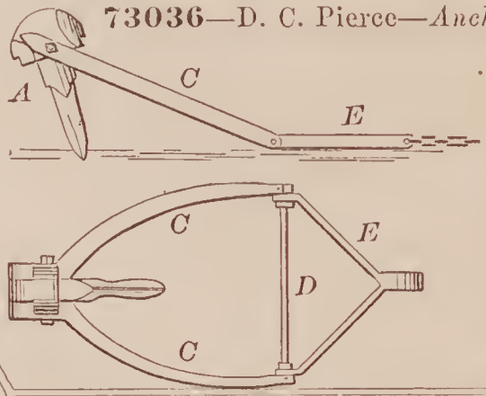
73034—J. L. Phillips—*Cotton Bale Tie.*



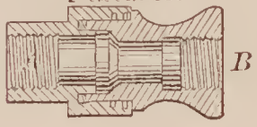
73035—D. C. Pierce—*Anchor.*



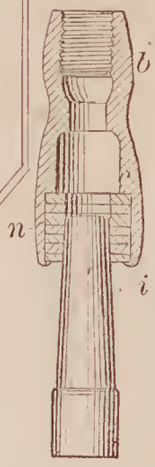
73036—D. C. Pierce—*Anchor.*



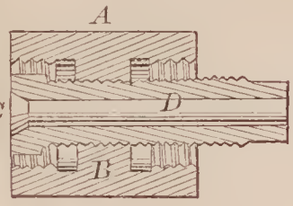
73039—T. L. Reed—*Lock Coupling for Gas Fixtures.*



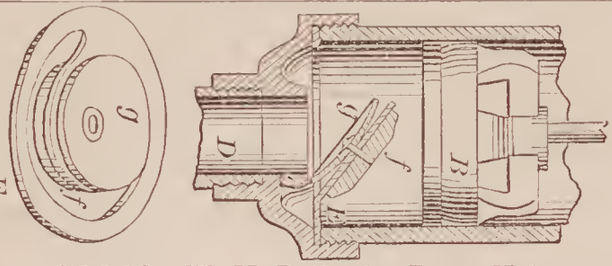
73040—T. L. Reed—*Gas Socket.*



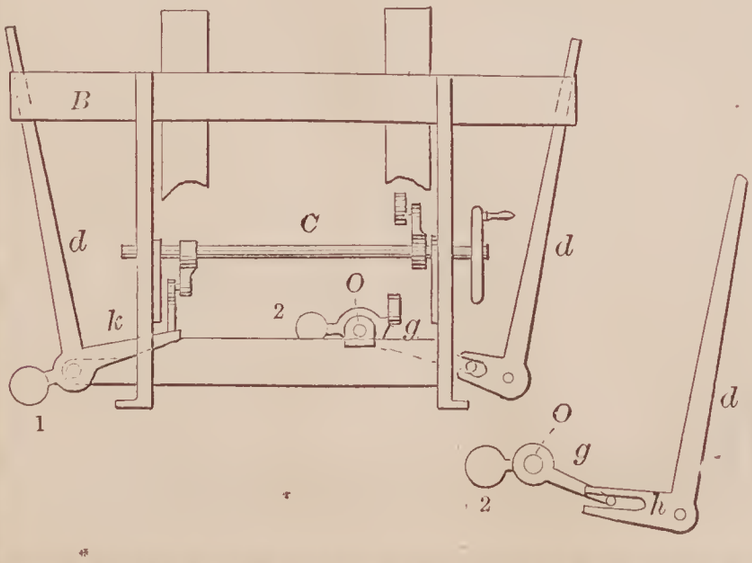
73032—C. E. Palmer—*Steam Trap.*



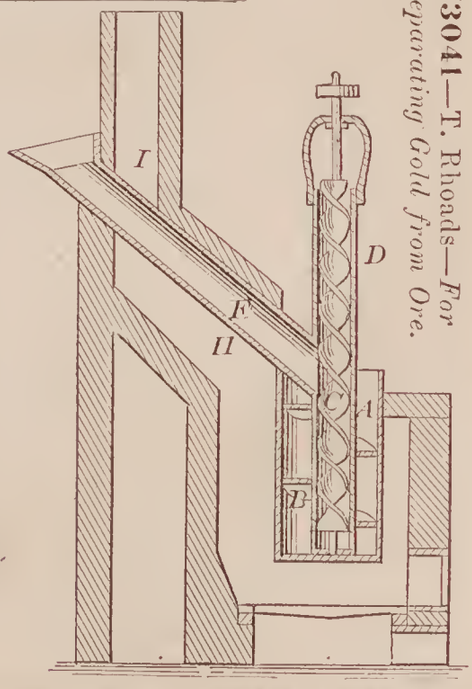
73038—W. H. Pollard—*Pump Valve.*



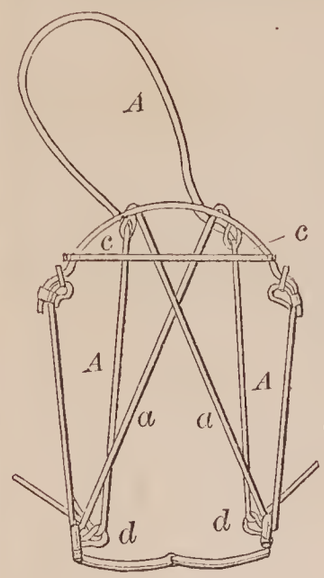
73037—J. Pilkington—*Picker Motion for Looms.*



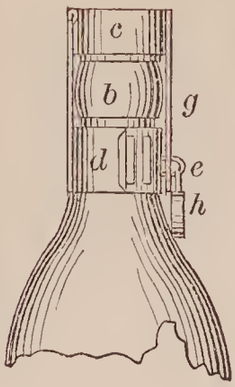
73041—T. Rhoads—*For Separating Gold from Ore.*



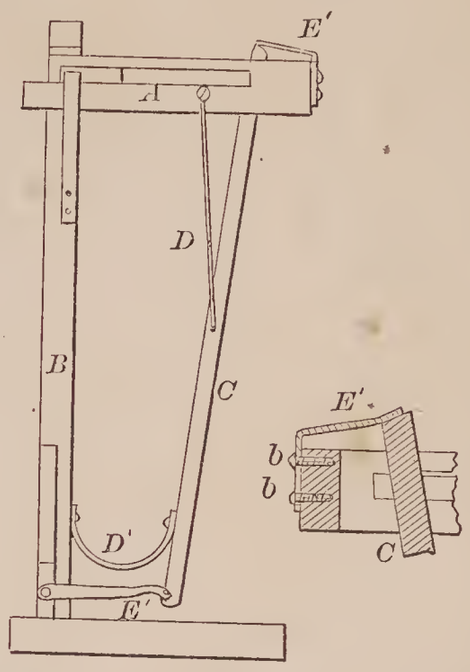
73042—Rice & Leach—*Driving Bridle.*



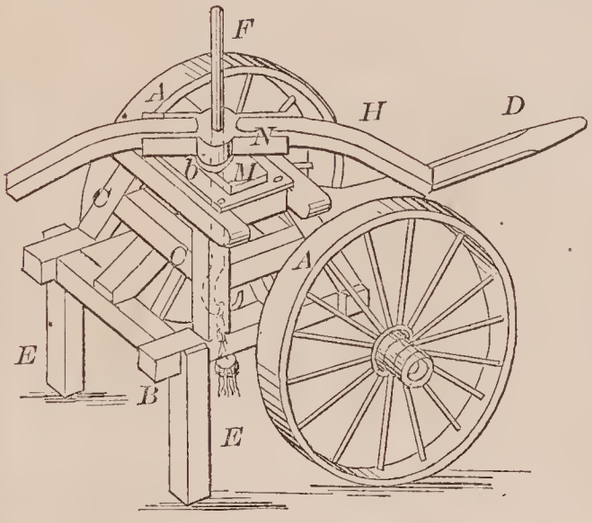
73043—W. H. Richards—*For Securing Stoppers to Bottles.*



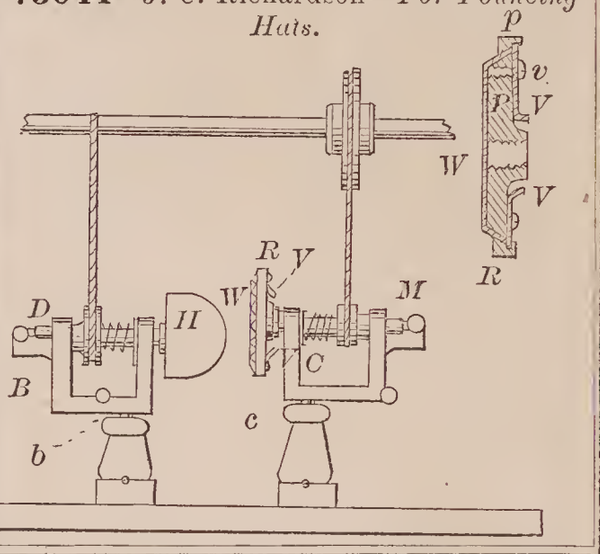
73045—E. Robbins—*Check for Picker Staff.*



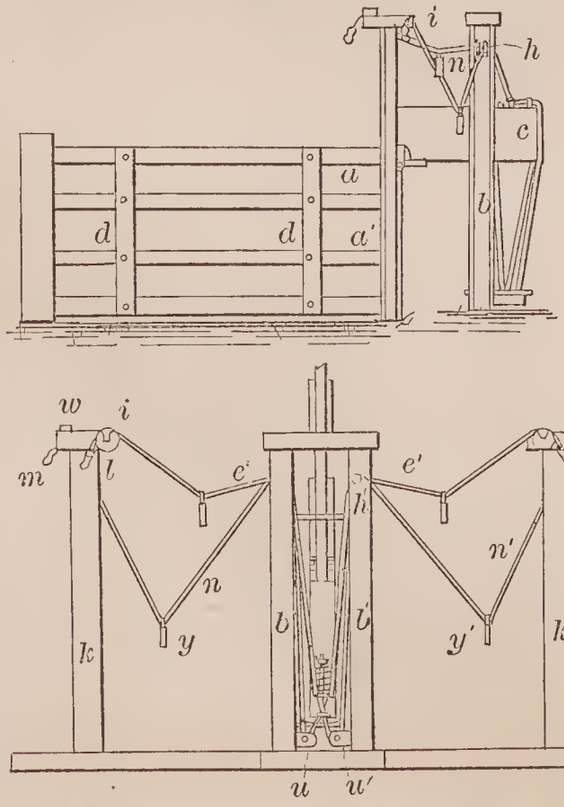
73046—J. B. Robertson—*Stump Extractor.*



73044—J. C. Richardson—*For Pouncing Hats.*

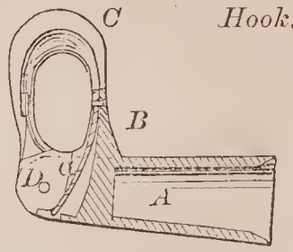


73049—W. H. Rogers—*Gate.*

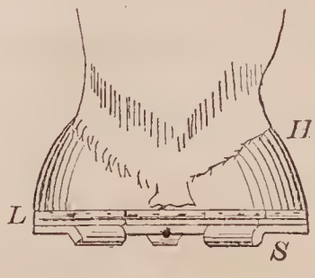


73048—I. R. Rogers—*For Lasting Boots and Shoes.*

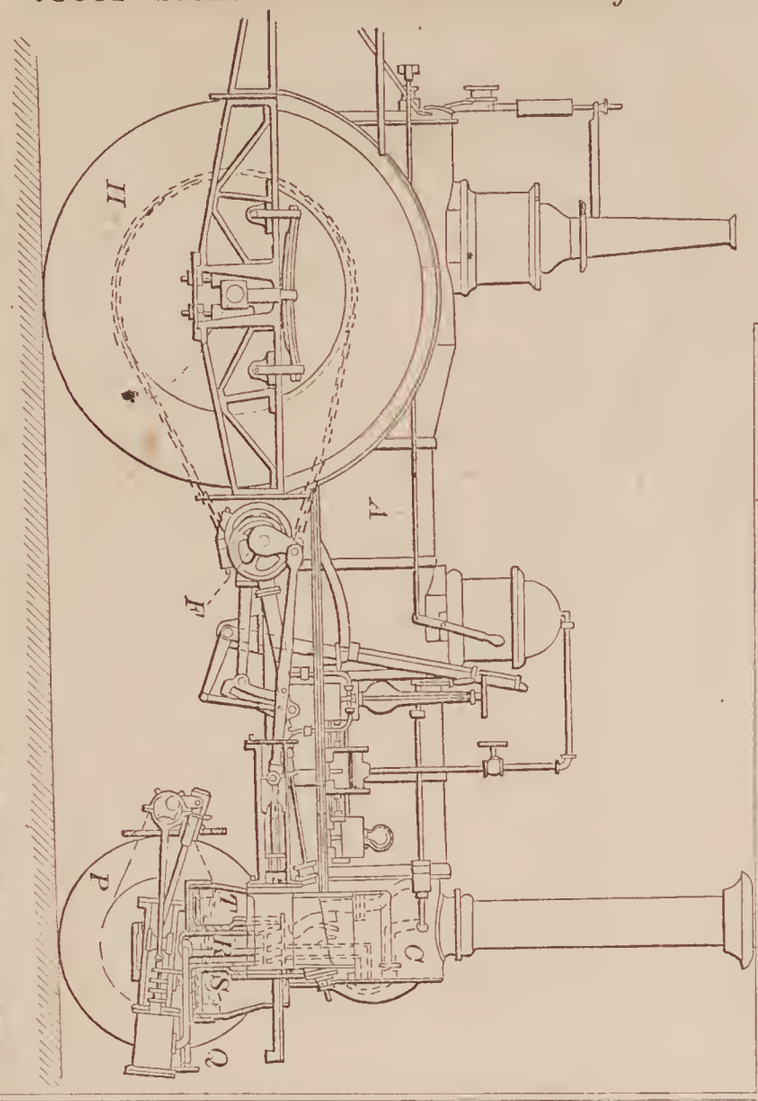
73047—D. D. Robinson—*Whiffletree Hook.*



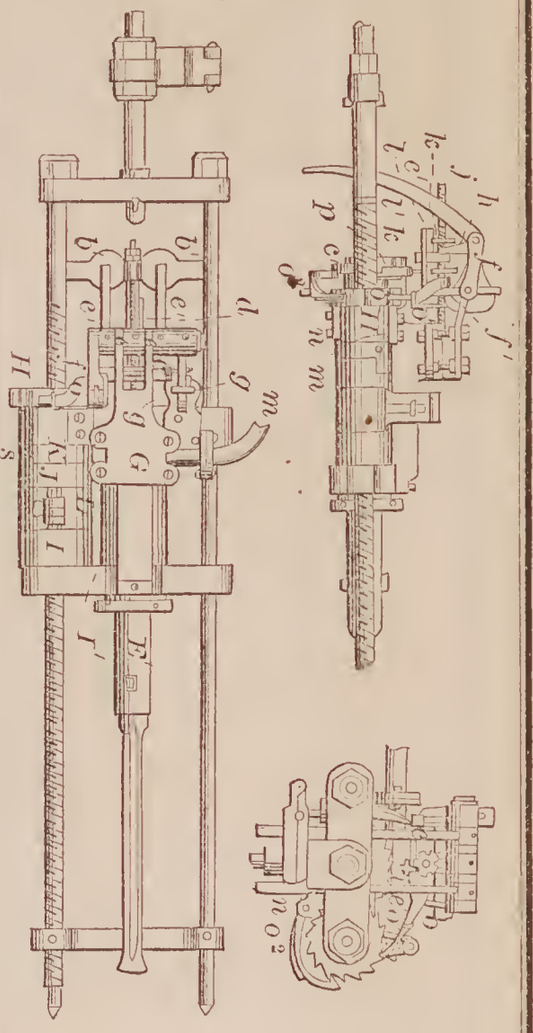
73050—G. E. Rust—*Horse Shoe Cushion.*



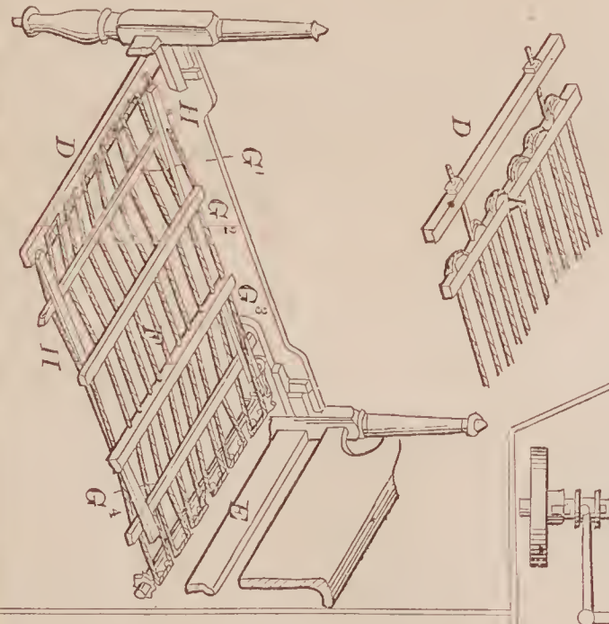
73051—Sheffler & Morrison—*Traction Engine.*



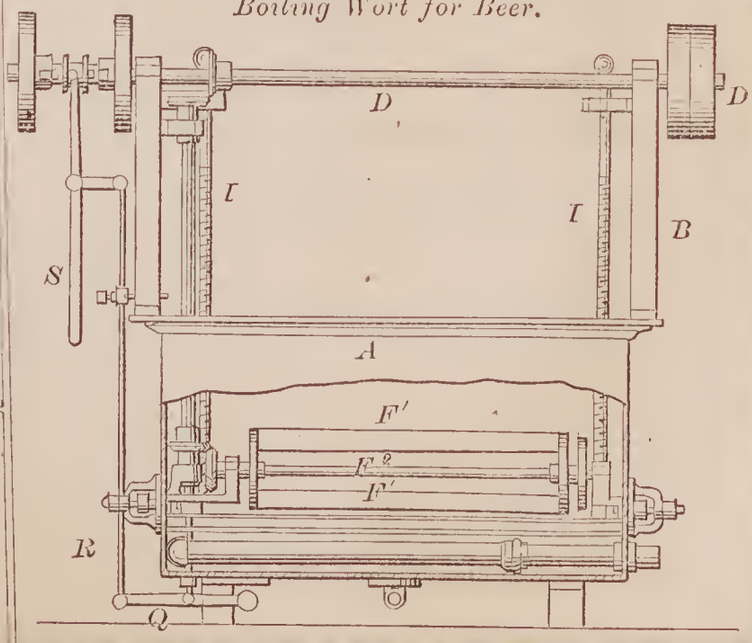
73053—C. Schumann—*Rock Drilling Machine.*



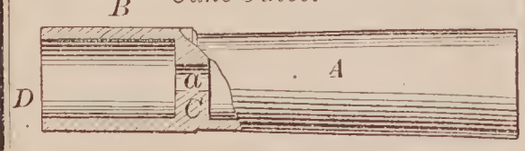
73052—A. Schlingman—*Bed Bottom.*



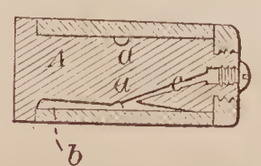
73056—J. & M. Stark—*For Mashing and Boiling Wort for Beer.*



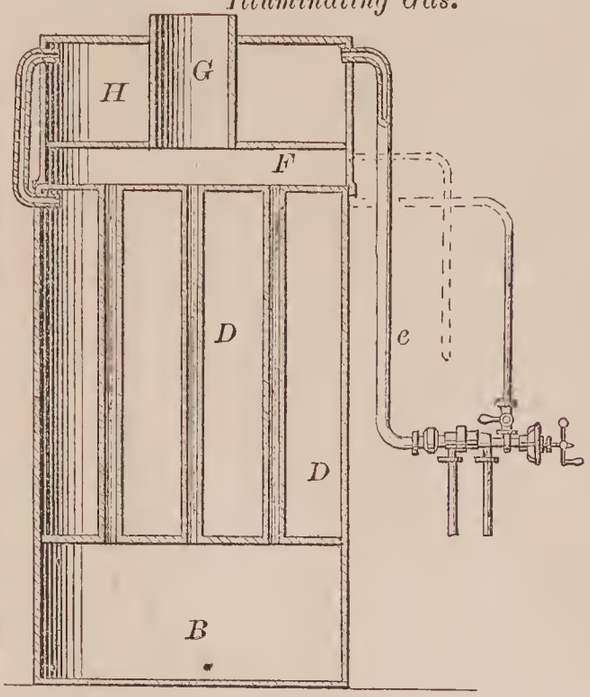
73054—A. B. Sharp—*Defecating Cane Juice.*



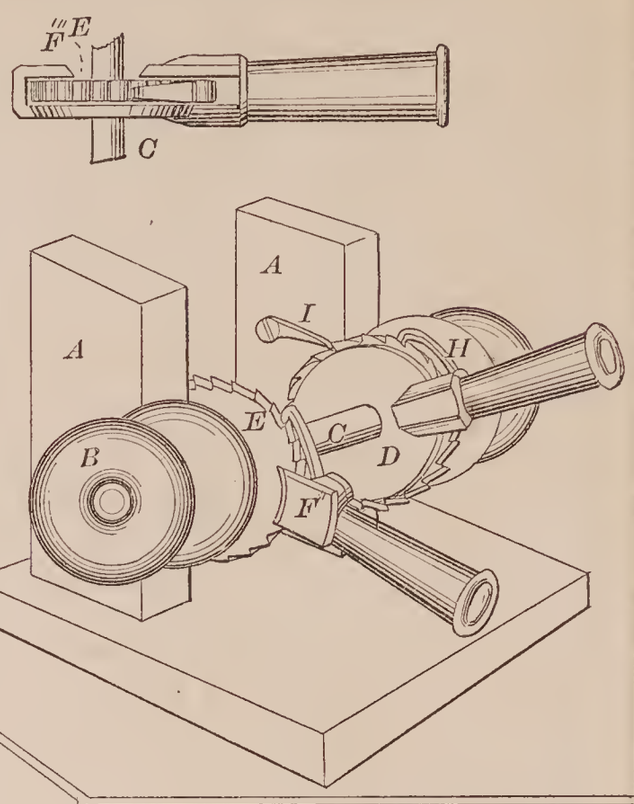
73055—C. D. Smith—*Axle Journal.*



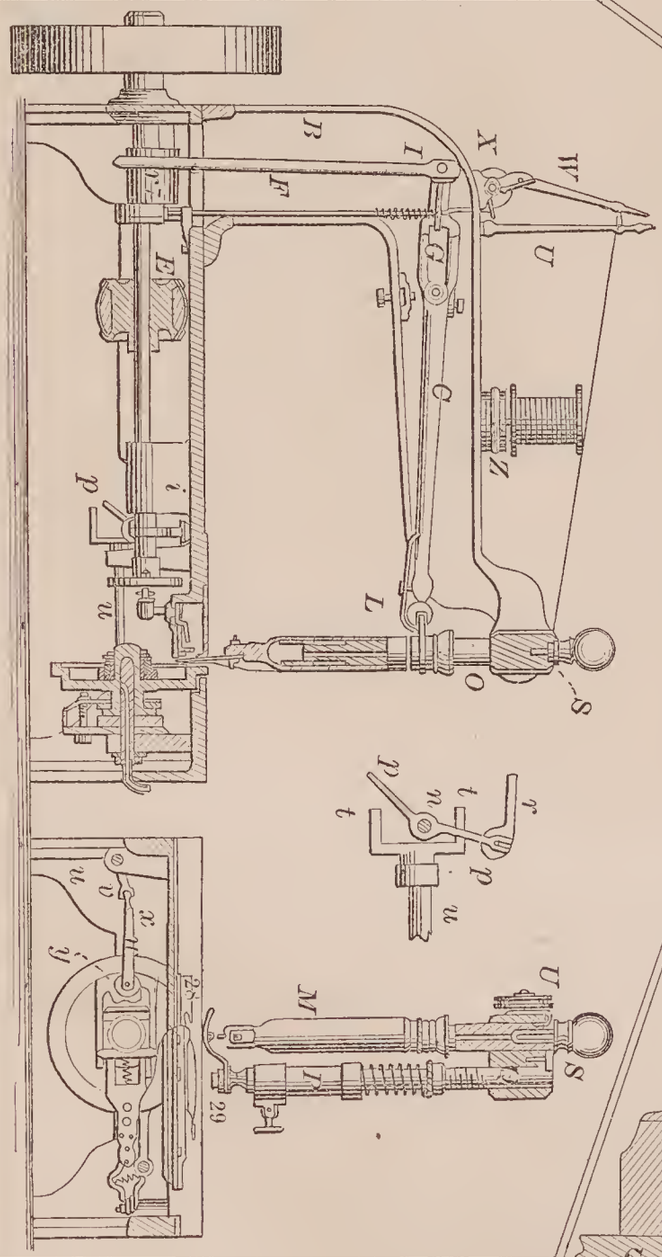
73057—L. Stevens—*Manufacture of Illuminating Gas.*



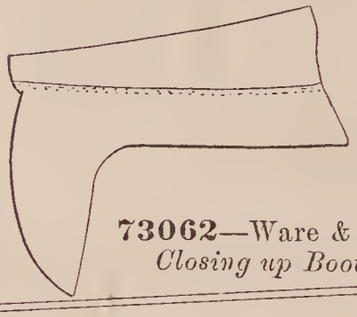
73059—L. L. Treman—*Windlass.*



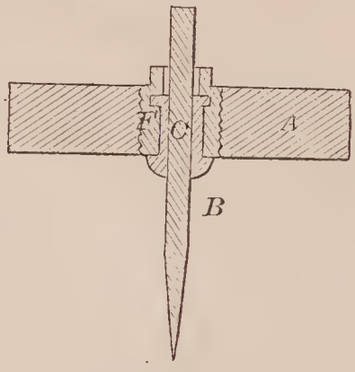
73063—A. Warth—*Sewing Machine.*



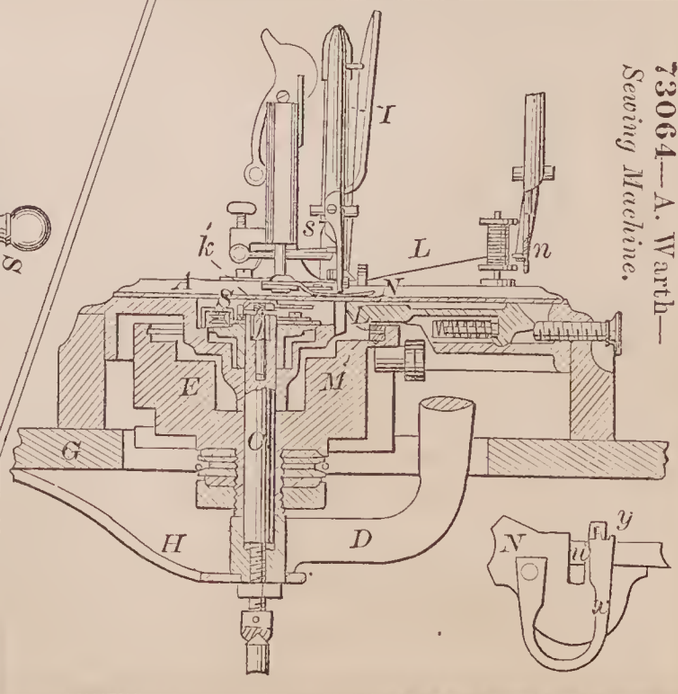
73062—Ware & Tilton—*Closing up Boot Legs.*



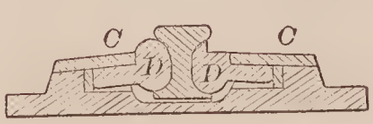
73061—J. N. & T. Wallis—*Harrow.*



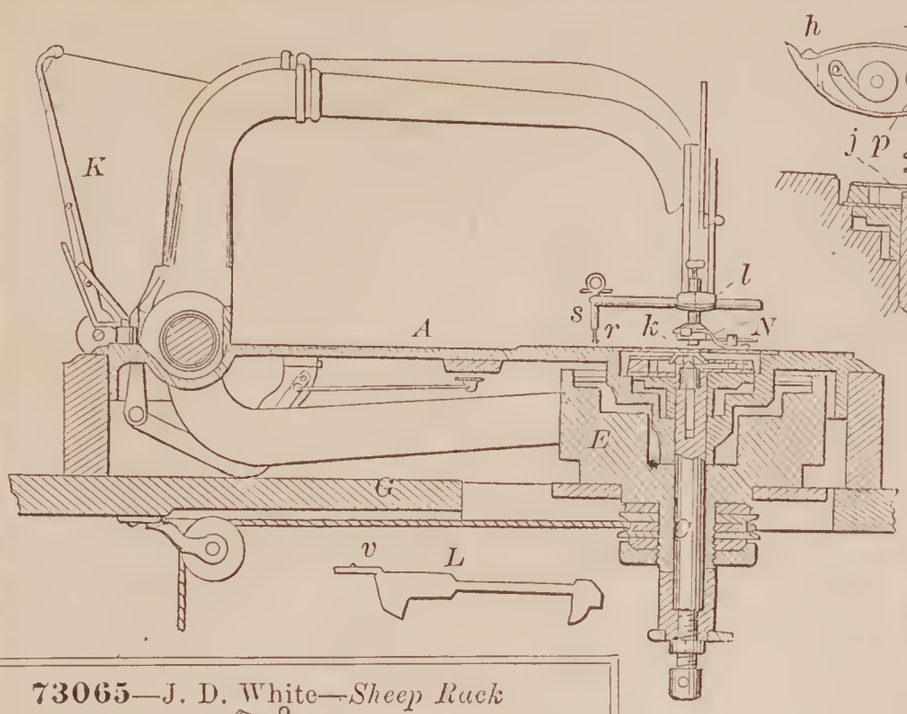
73064—A. Warth—*Sewing Machine.*

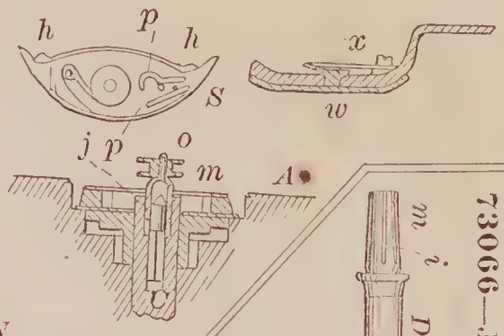


73058—I. Tillson—*Railway Chair.*

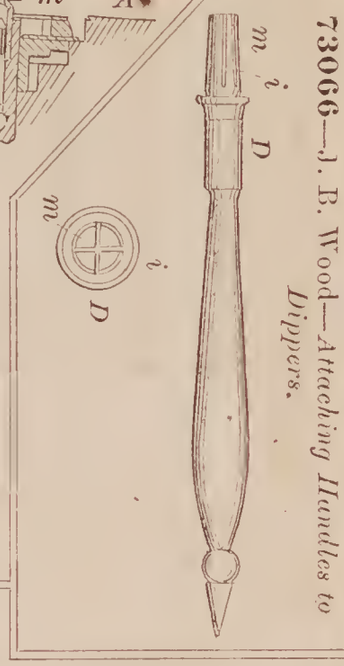


73064—*Continued.*

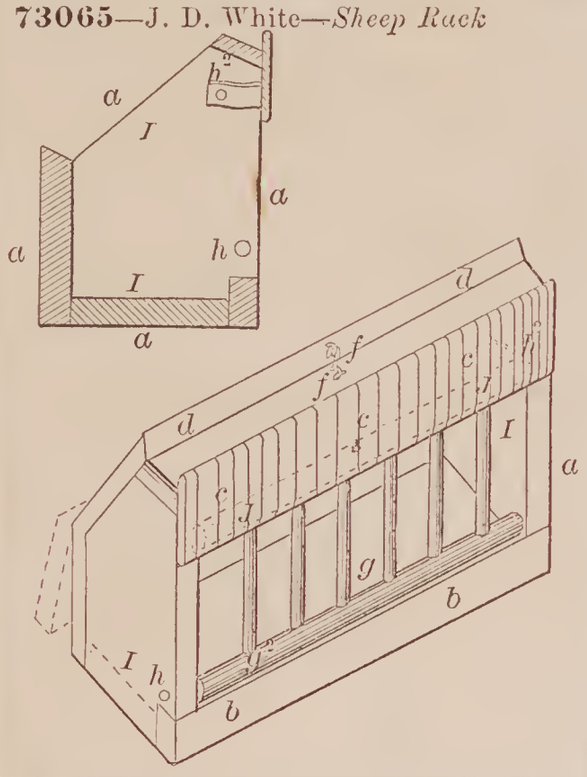




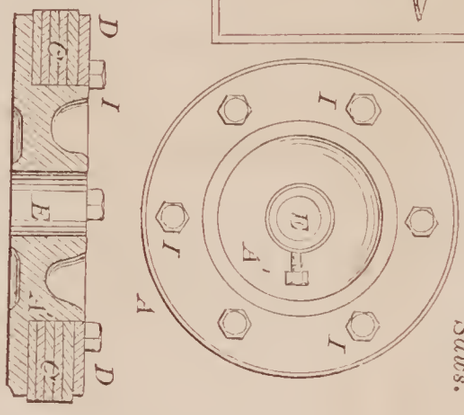
73066—J. B. Wood—*Attaching Handles to Dippers.*



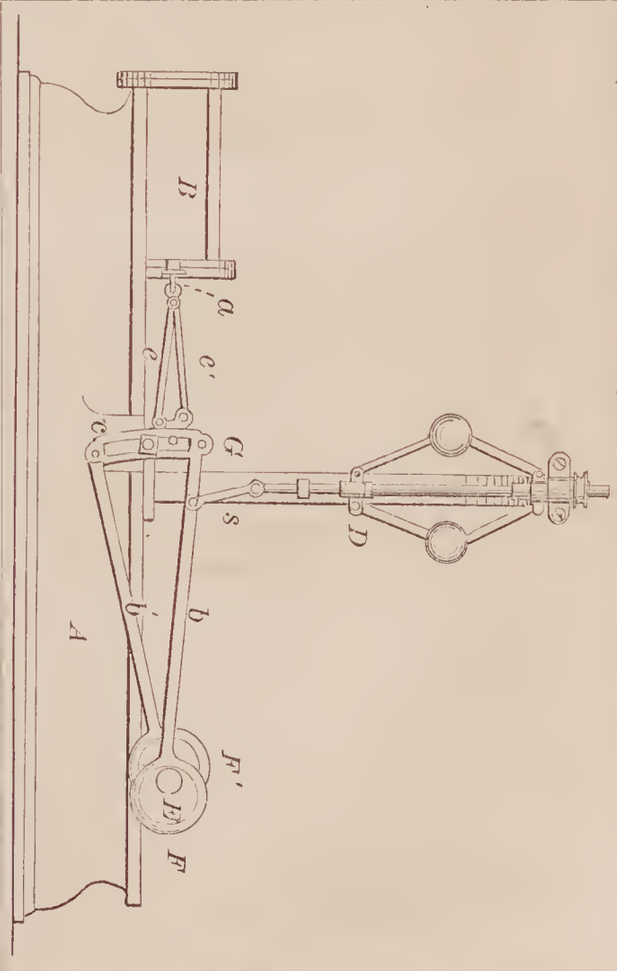
73065—J. D. White—*Sheep Rack*



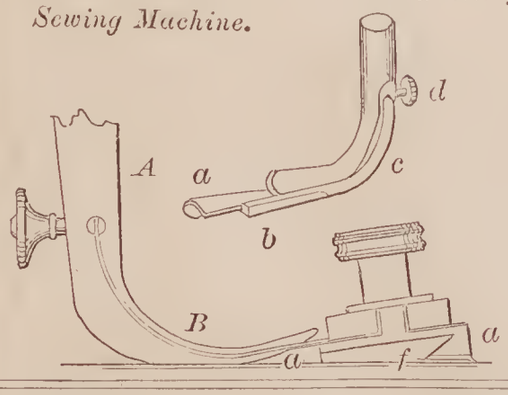
73070—T. A. Ballou—*Friction Roller for Band Saws.*



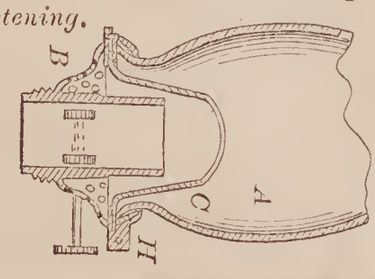
73069—J. F. Allen—*Valve Gear.*



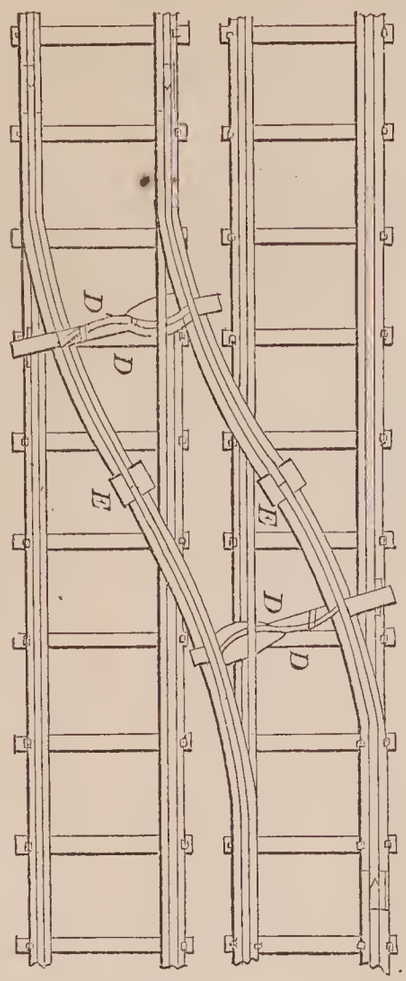
73067—Yentzer & McCain—*Feller for Sewing Machine.*



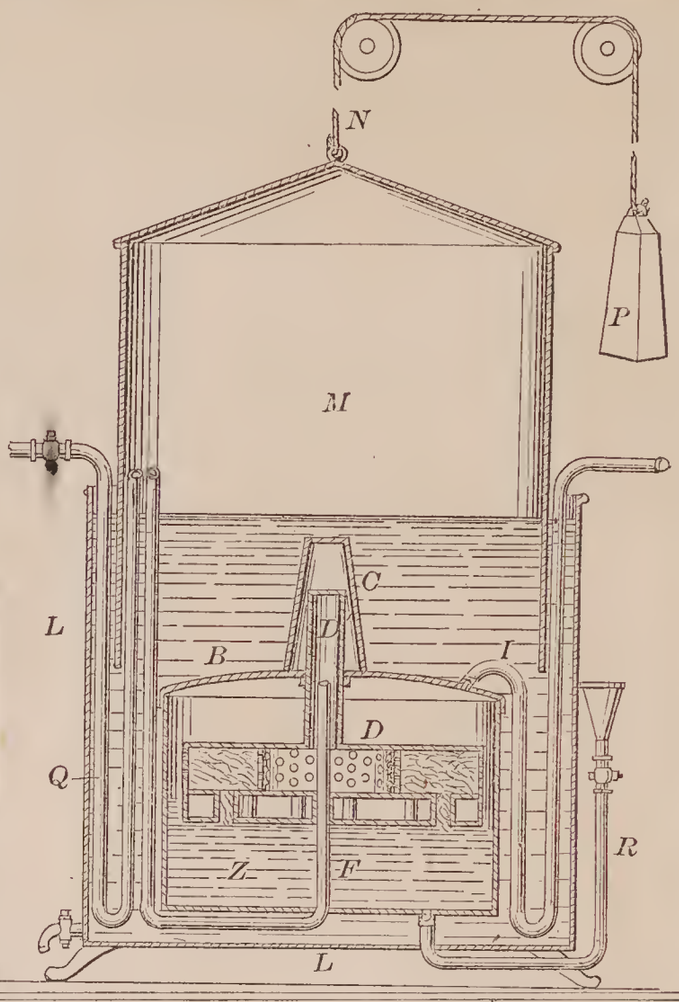
73068—Allen & Lewis—*Lamp Chimney Fastening.*



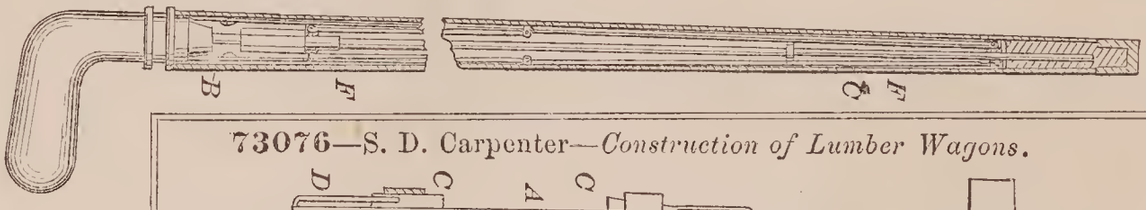
73071—T. G. Beecher—*Railway Switch.*



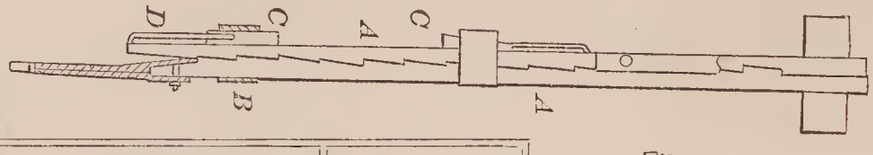
73073—W. W. Bierce—*Carburetting Apparatus.*



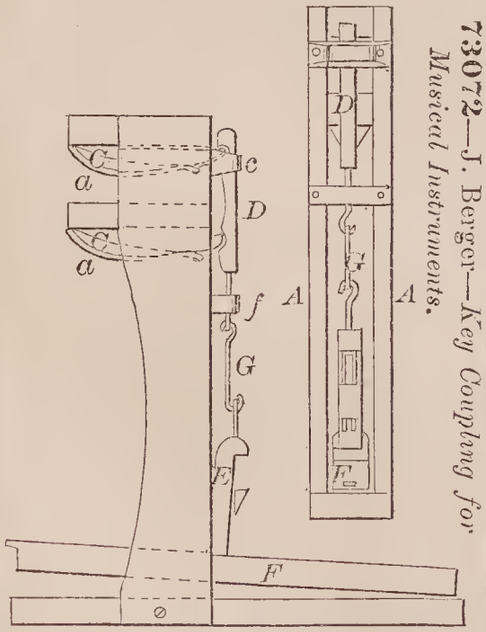
73074—G. Bockstaller—*Cane and Umbrella.*



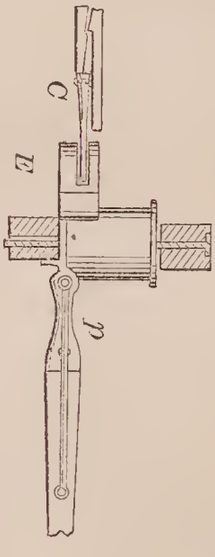
73076—S. D. Carpenter—*Construction of Lumber Wagons.*

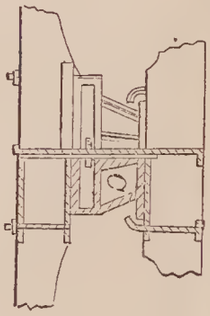


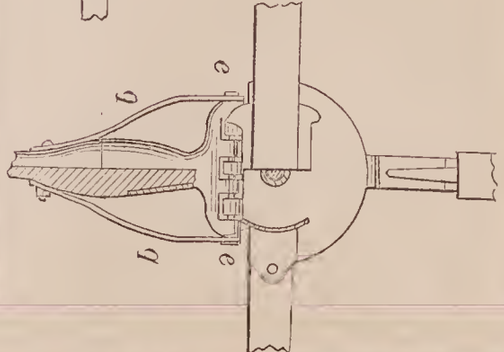
73072—J. Berger—*Key Coupling for Musical Instruments.*



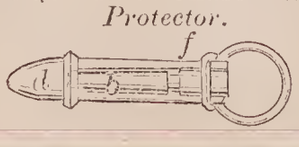
73075—E. Broad—*Cant Hook.*



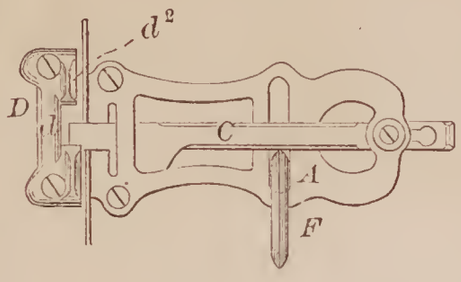




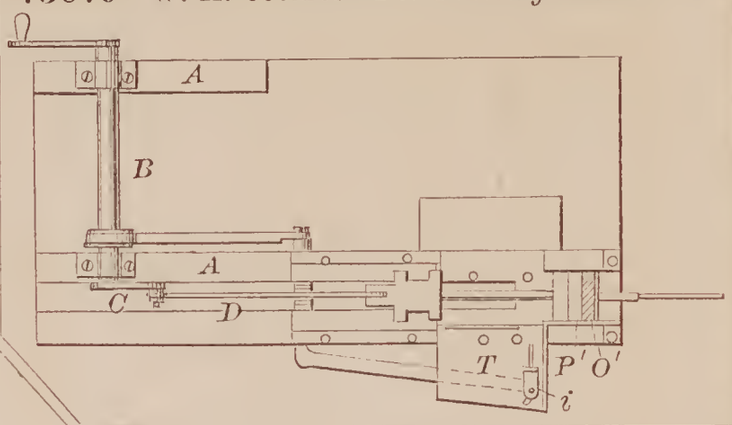
73077—A. J. Chase—*Watch Key Protector.*



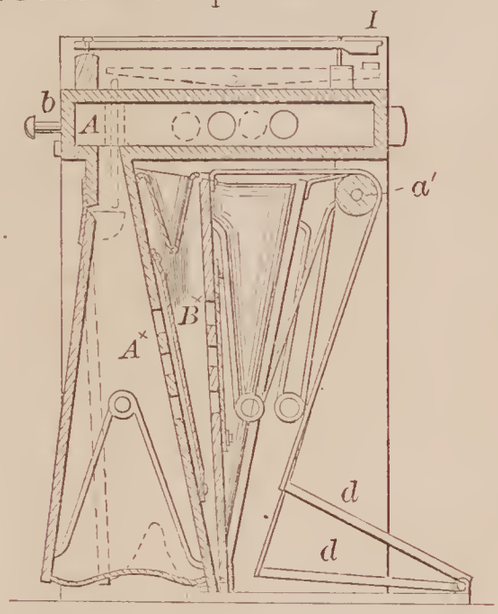
73078—P. P. Child—*Latch and Bolt.*



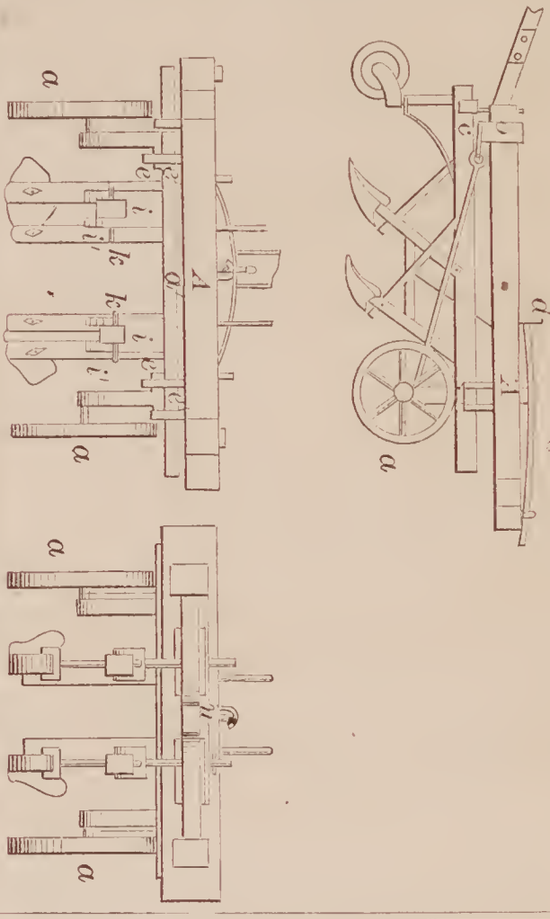
73079—W. H. Coombs—*For Pressing Brick.*



73080—W. Cooper—*Melodeon.*

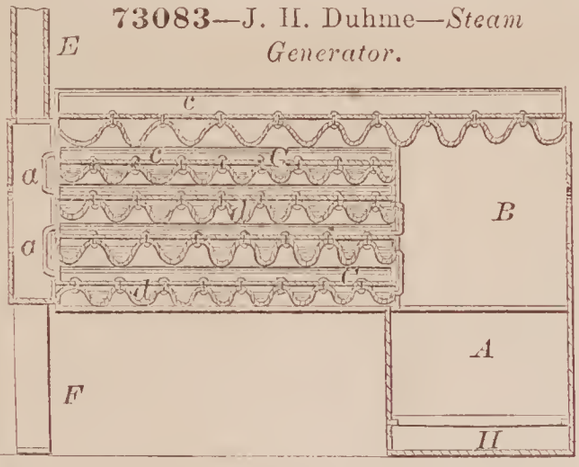


73081—Damron, Massey & Whitman—*Cultivator and Plow.*

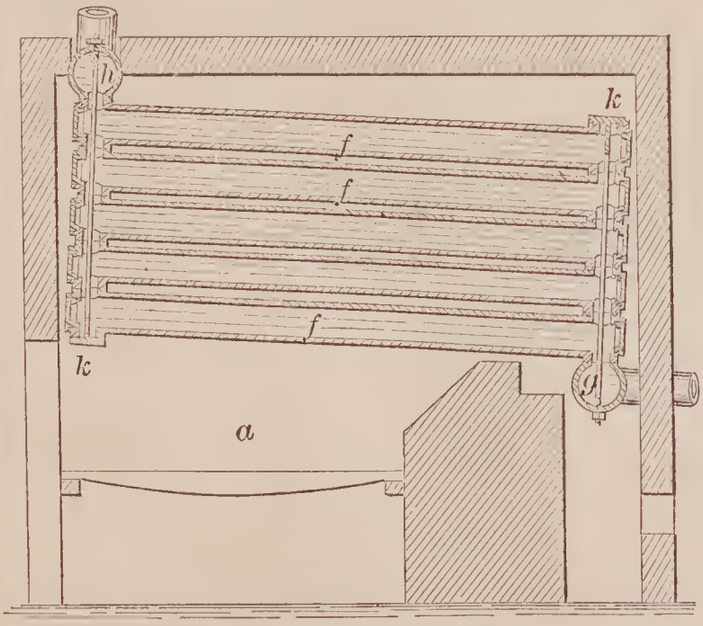


73082—S. Darlin —*Straight Edge.*

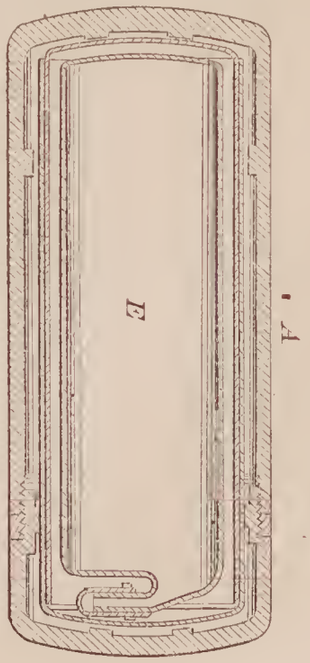
73083—J. H. Duhme—*Steam Generator.*



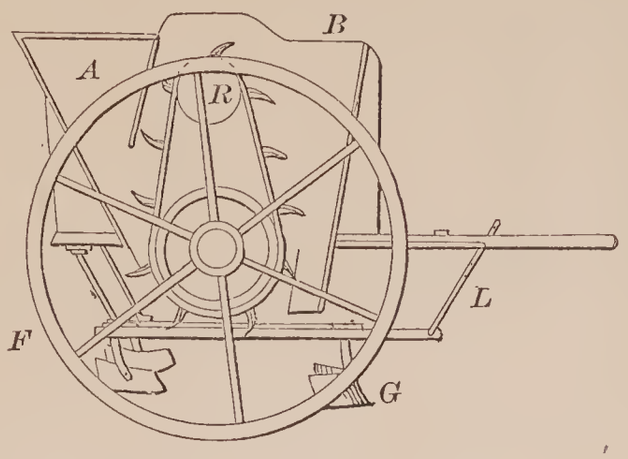
73084—C. R. Ellis—*Boiler for Heating.*

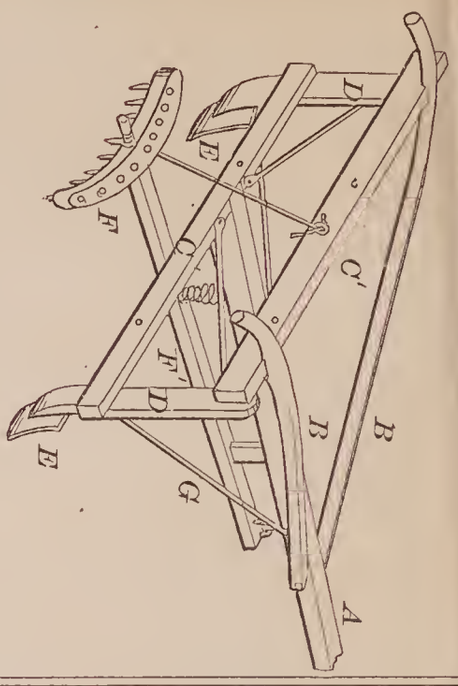


73085—J. P. Ellis—*Waterproof Safe.*

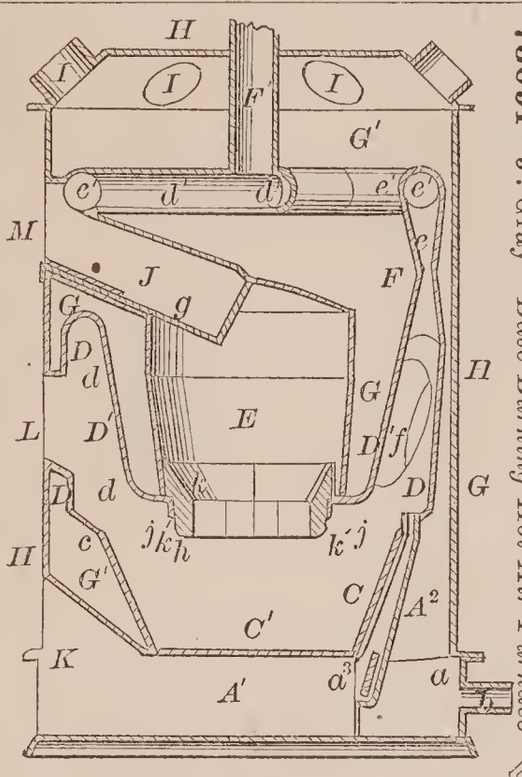


73086—H. Farmer—*Potato Planter.*

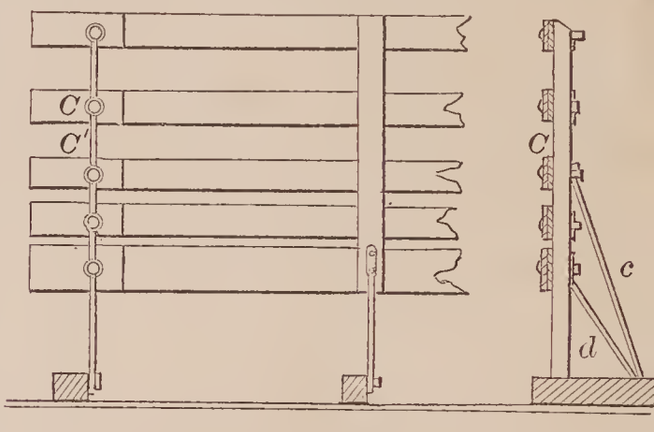




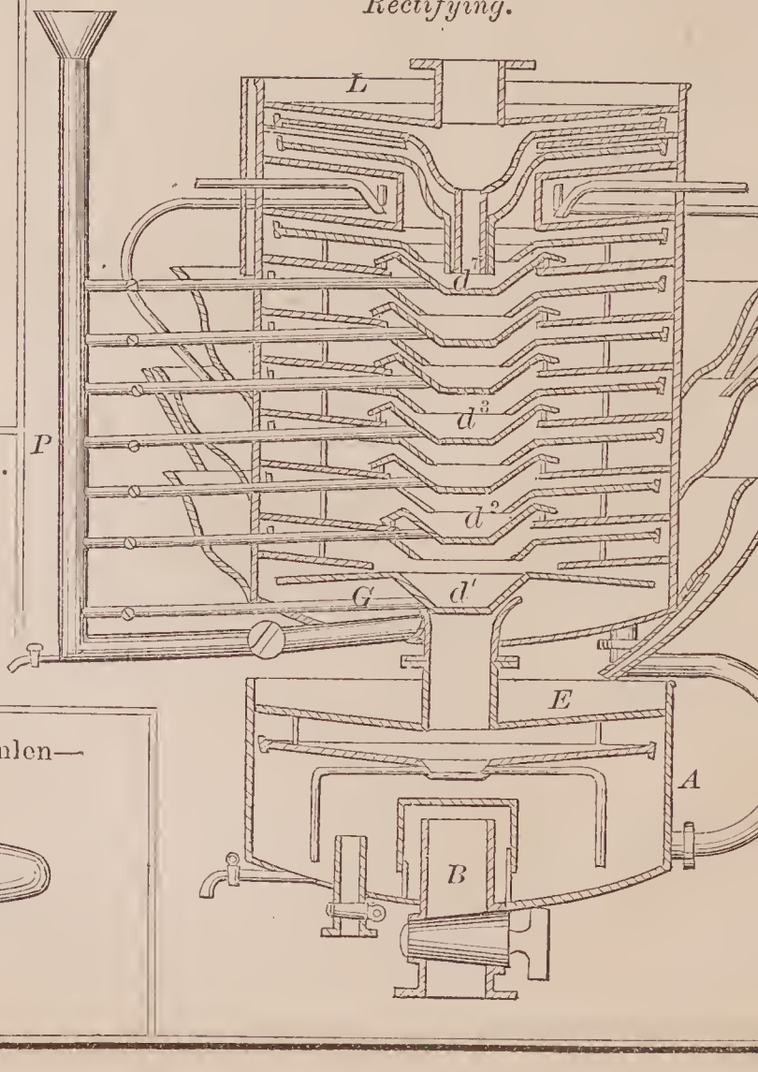
73091—J. Gray—*Base Burning Hot Air Furnace*

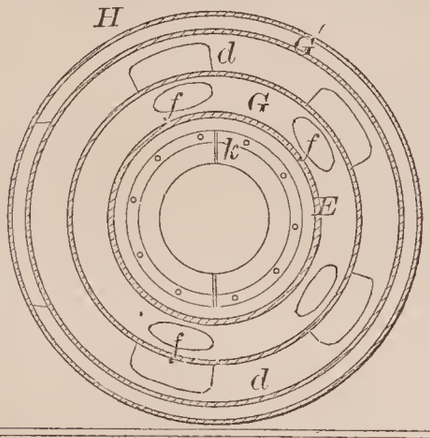


73090—I. A. Gormley—*Field Fence.*



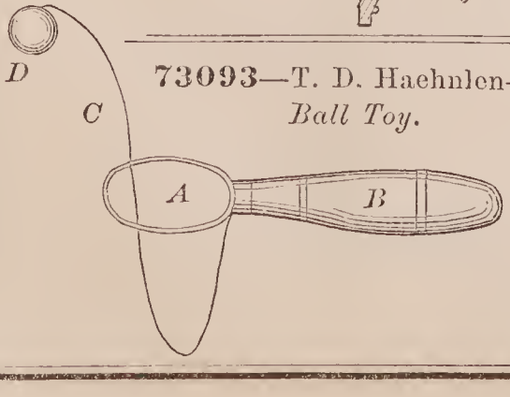
73092—C Gresiuchna—*For Distilling and Rectifying.*



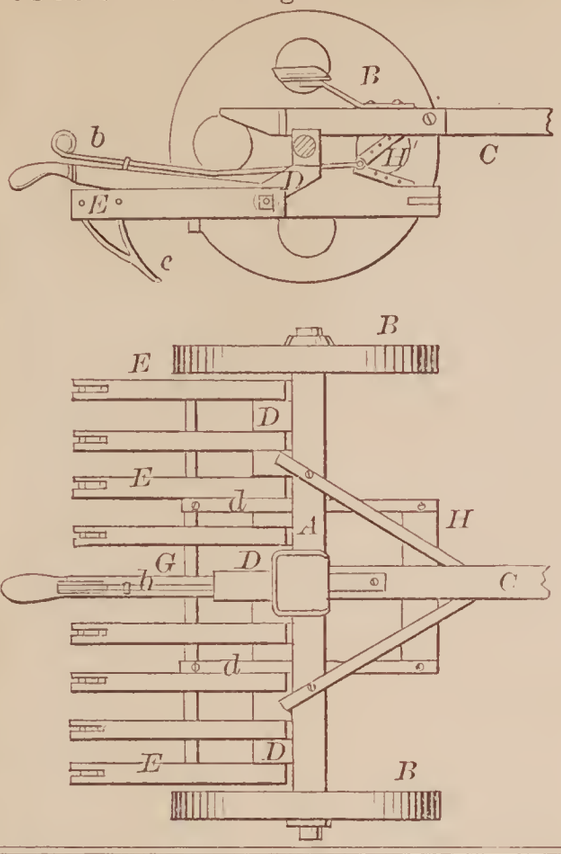


73088—J. Gardner—*Picture Knob.*

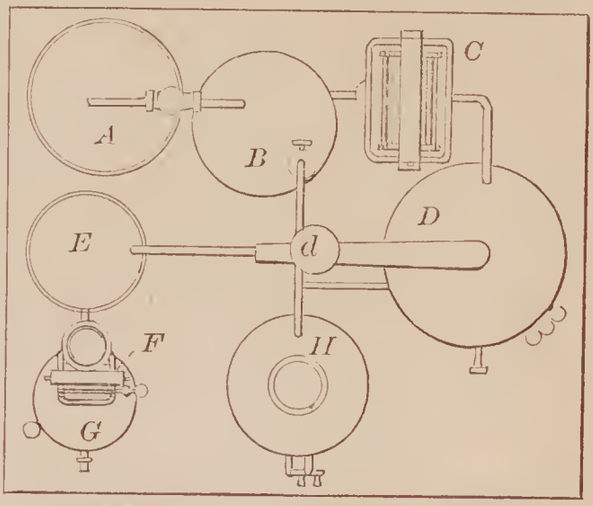
73093—T. D. Haehnlen—*Ball Toy.*



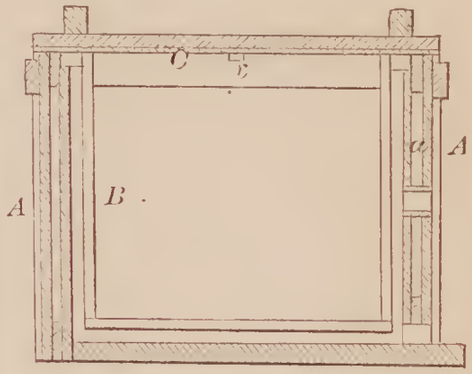
73094—W. O. Hargrave—*Cultivator.*



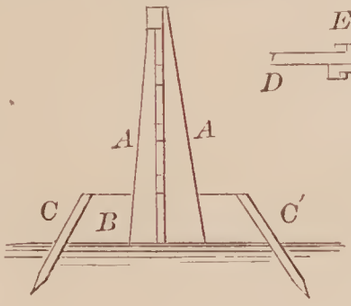
73099—Horton & Milligan—*Spirit Meter.*



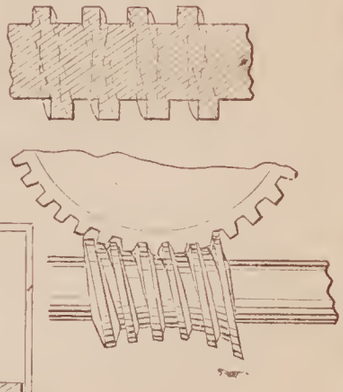
73096—C. Hastings—*Beehive.*



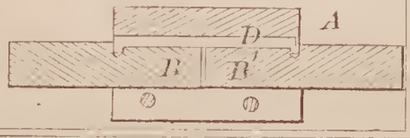
73098—L. F. Henderson—*Portable Fence.*



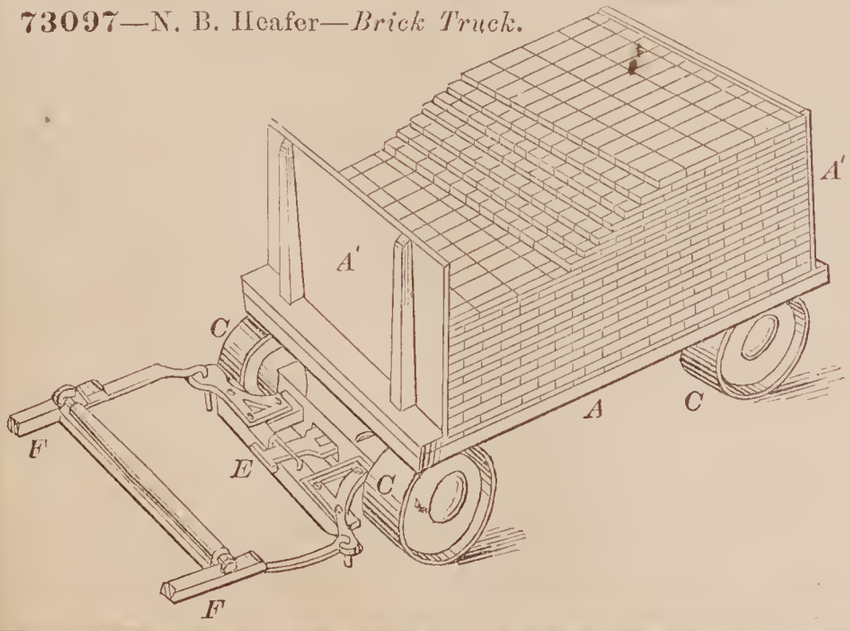
73095—Harrigan & Whitney—*Gear Worm.*



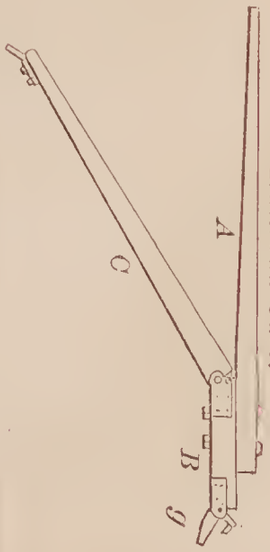
73100—G. W. Hubbard—*Shaft Coupling.*



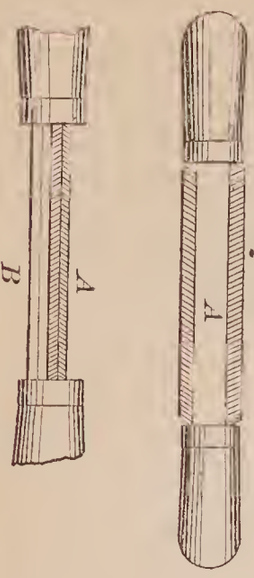
73097—N. B. Heafer—*Brick Truck.*



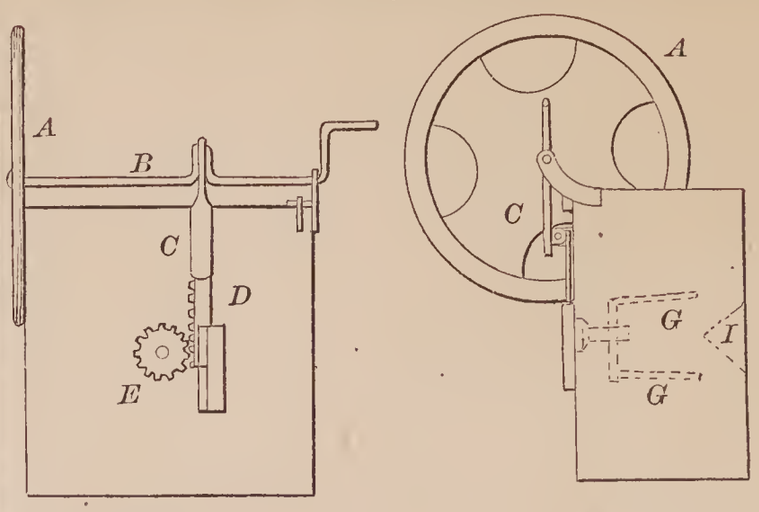
73101—E. Hutson—*Pushing Jack for Railroad Cars.*



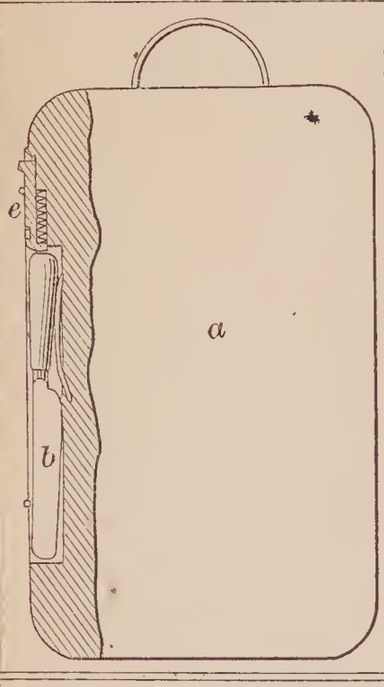
73102—W. M. Jones—*For Sharpening Horse Shoe Calks.*



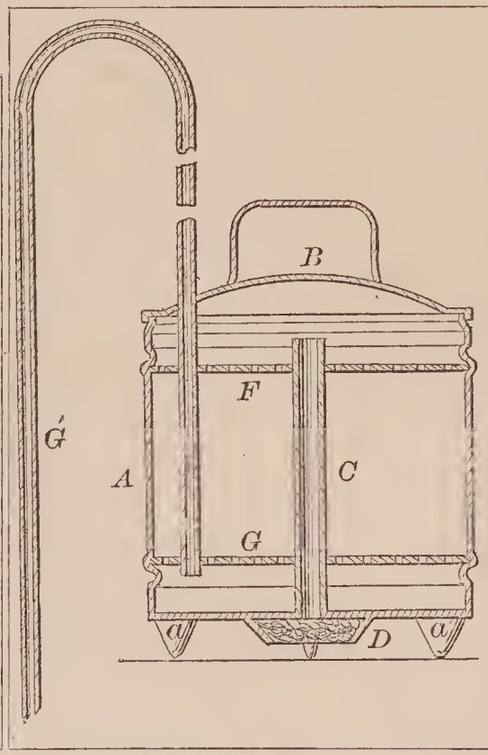
73103—J. Lee—*Washing Machine.*



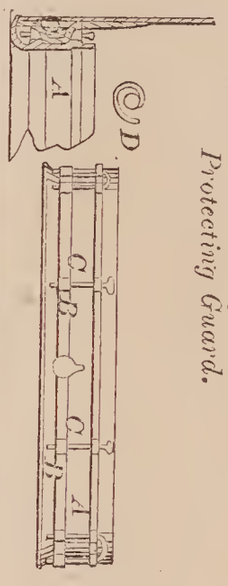
73104—W. H. Lewis—*Bread Board.*



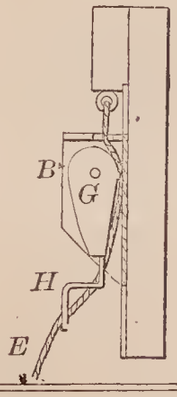
73105—J. N. Lighthall—*Filter.*



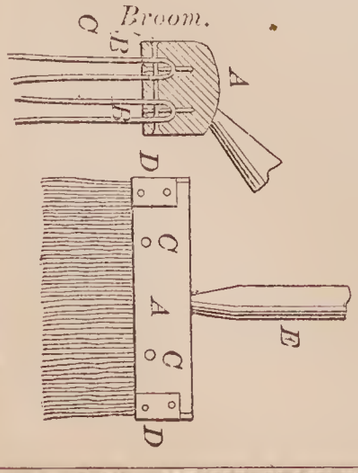
73106—E. Lindsley—*Pantaloons Protecting Guard.*



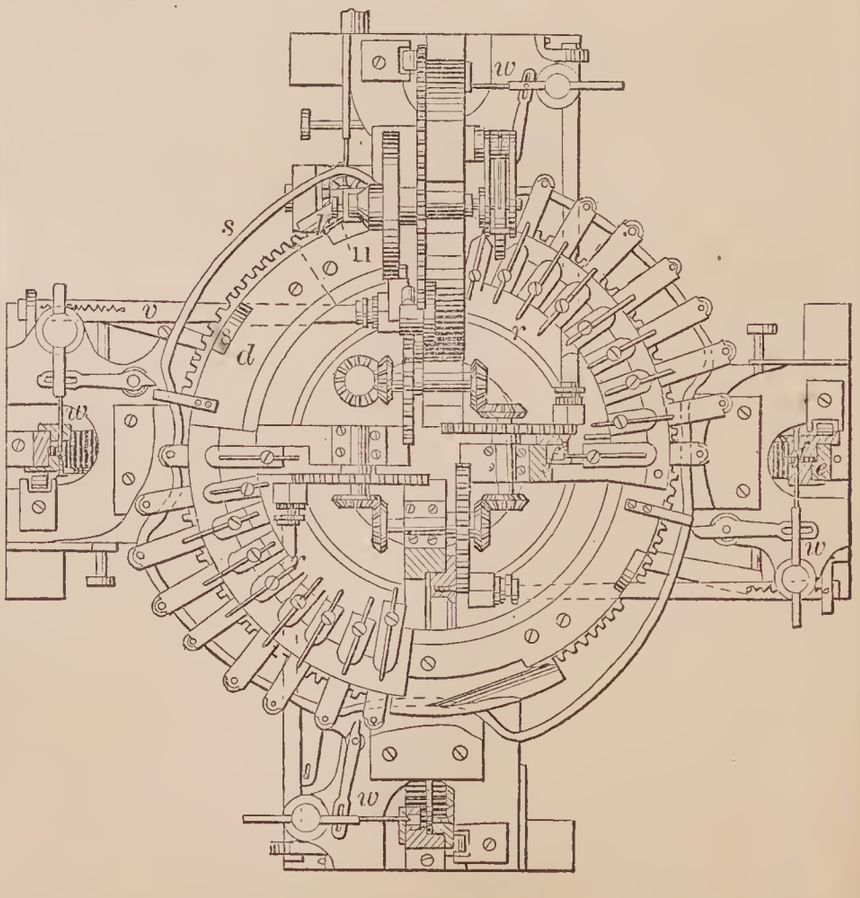
73108—T. J. Marinus—*Curtain Fixture.*



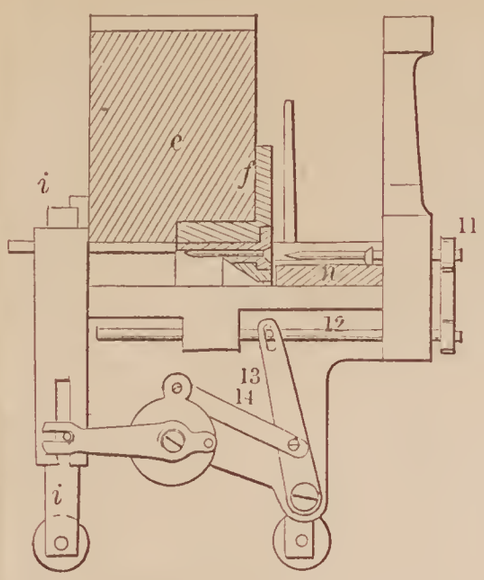
73107—H. Lumbard—*Broom.*



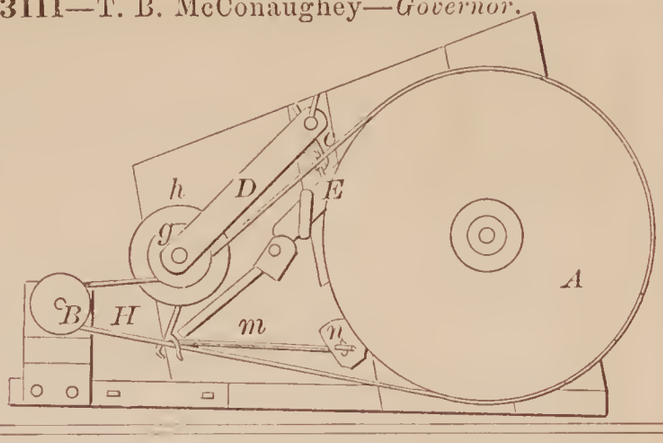
73110—B. A. Mason—*Screw Machine.*



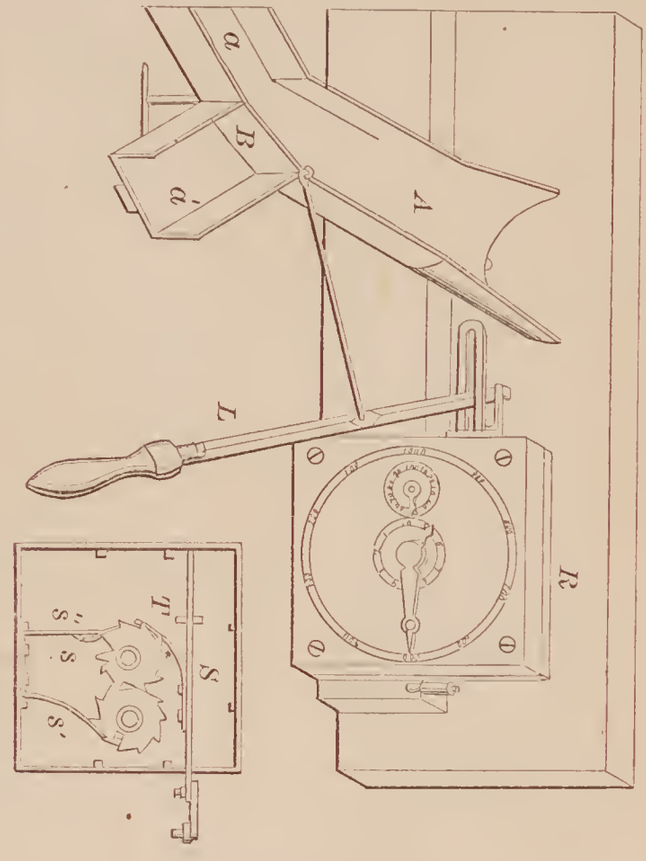
73110—*Continued.*



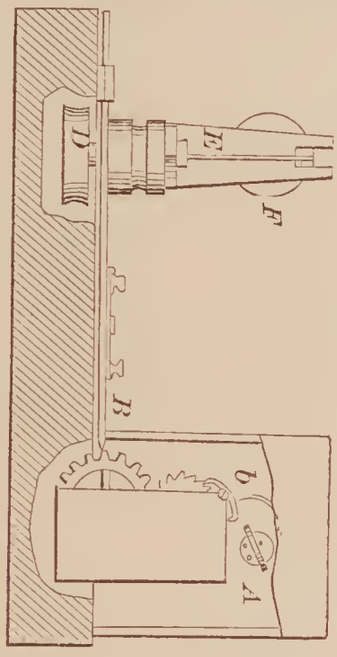
73111—T. B. McConaughey—*Governor.*



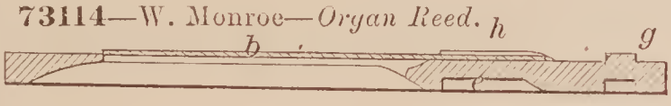
73112—E. O. Melvin—*Grain Measure.*

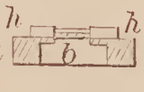


73113—J. F. Morsell—*Railway Switch Alarm.*

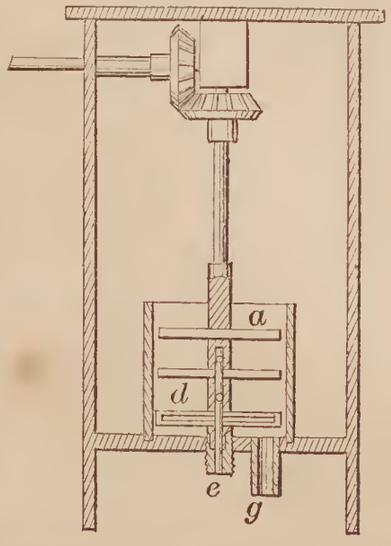


73114—W. Monroe—*Organ Reed.*

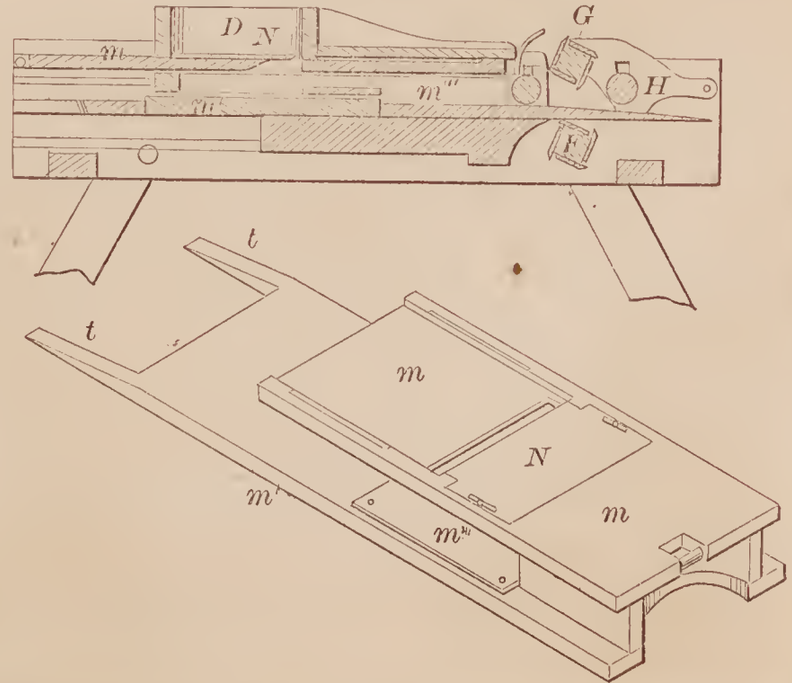




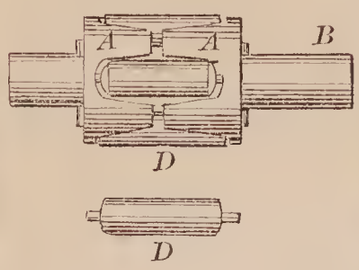
73115—G. G. Noah—*For Making Paste.*



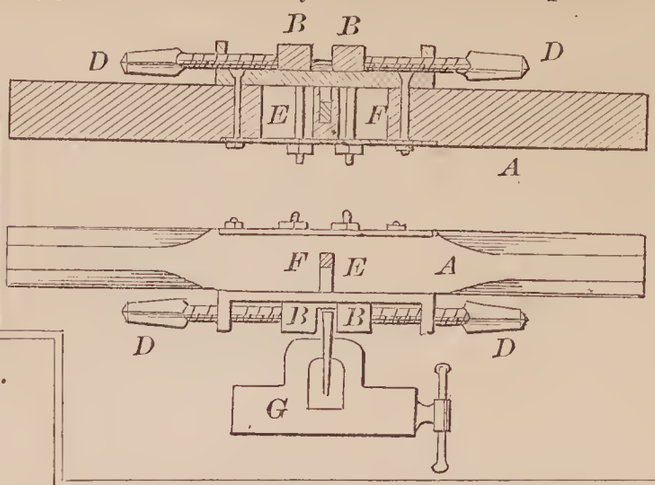
73116—D. L. Peacock—*Shingle Machine.*



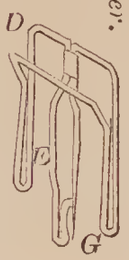
73117—C. W. Pierce—*Friction Roller.*



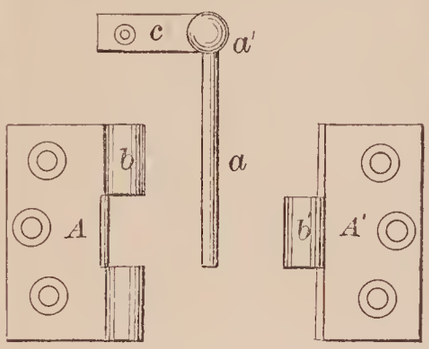
73118—R. F. Prettyman—*Skate Sharpener.*



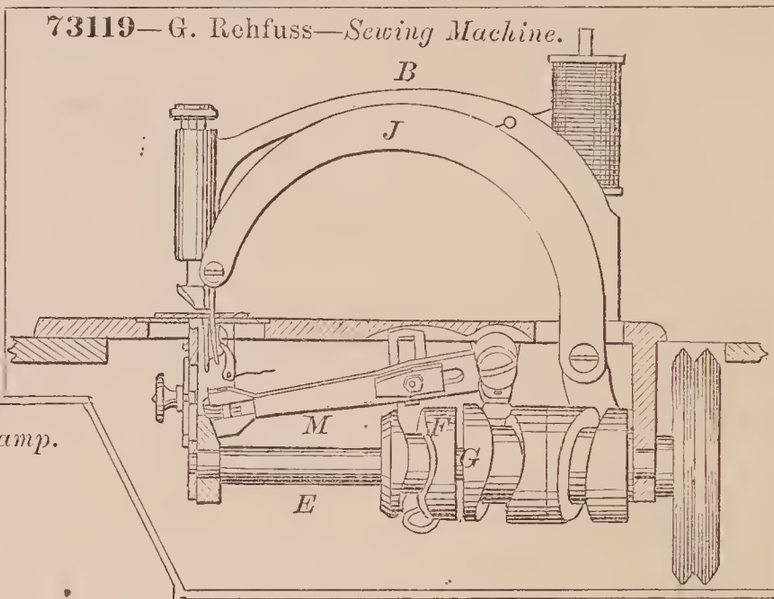
73121—E. J. Richardson—*Ticket Holder.*



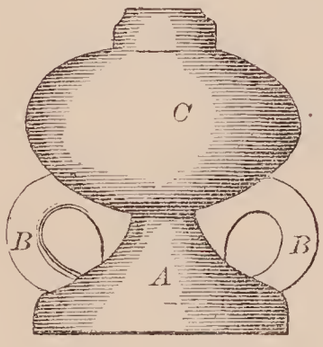
73120—R. Reiber—*Hinge.*



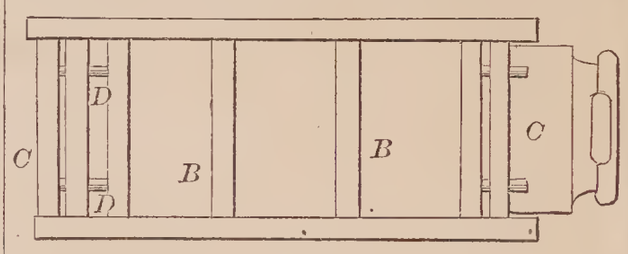
73119—G. Rehfuss—*Sewing Machine.*

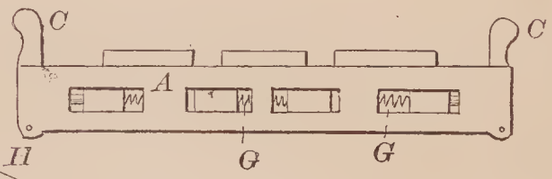


73122—D. C. Ripley—*Glass Lamp.*

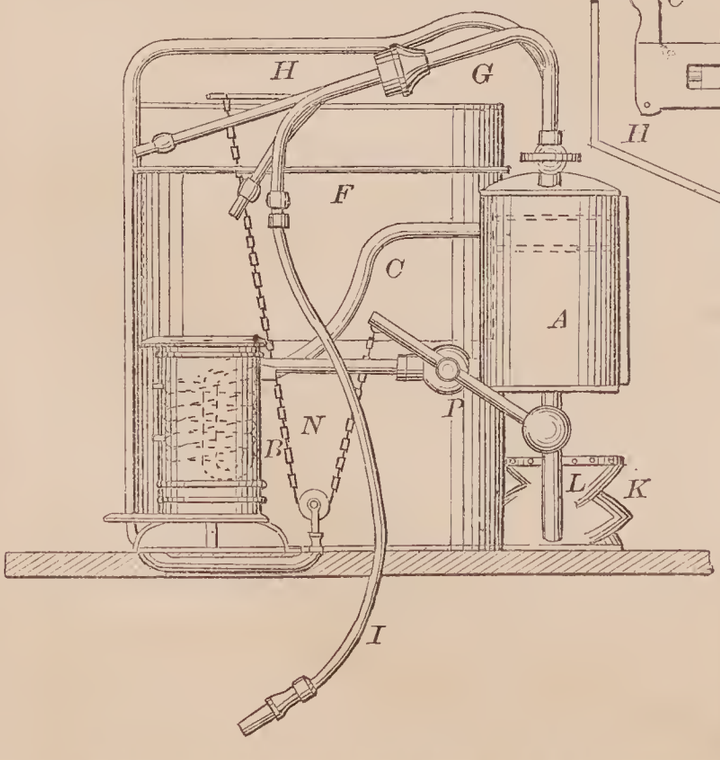


73123—J. Sangster—*For Handling Bricks.*

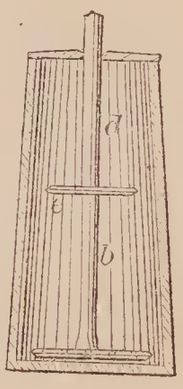




73124—D. F. Scheaf—*For Generating Gas.*



73125—C. Schifferly—*Churn.*



73126—E. S. Scripture—*Dividers and Calipers.*

Fig. 1

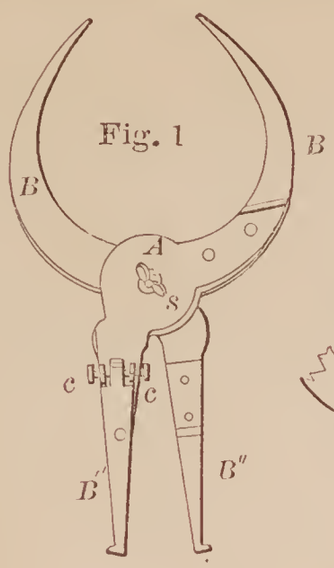


Fig. 3

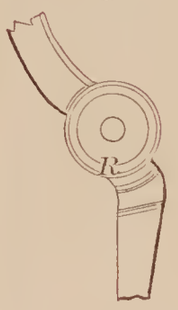


Fig. 4

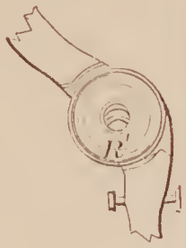
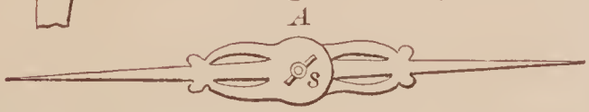
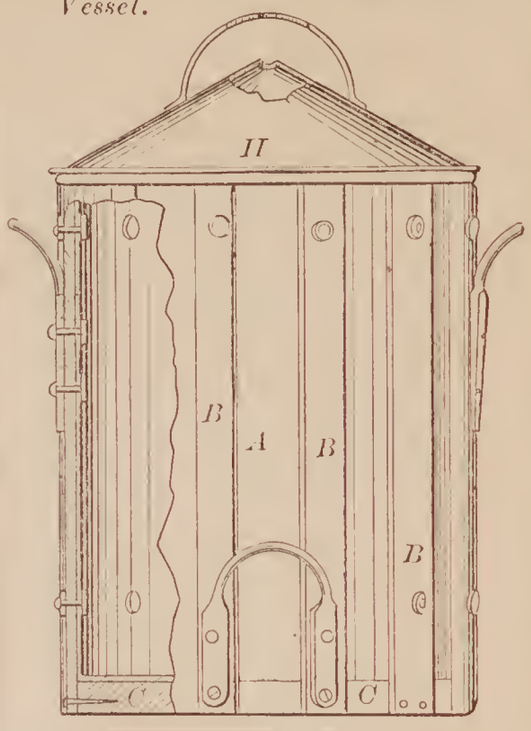


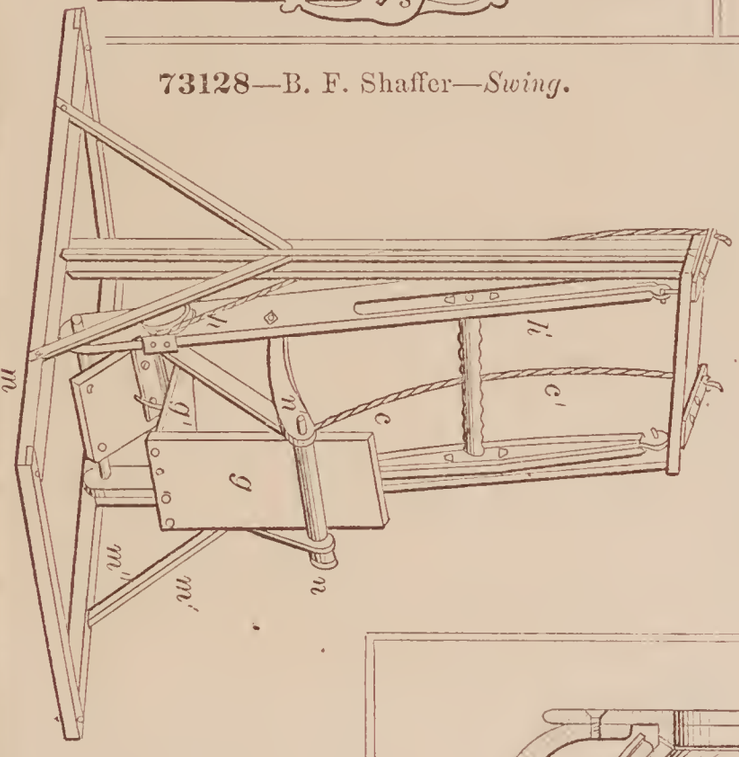
Fig. 2



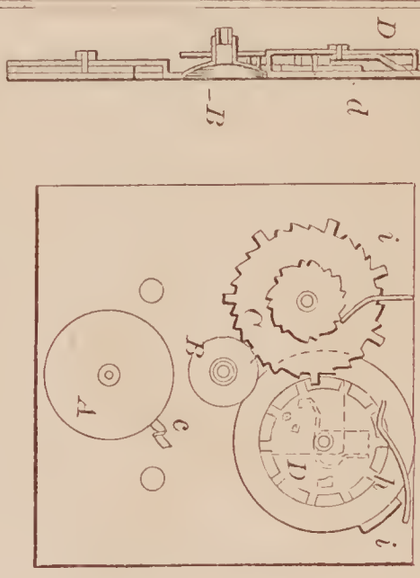
73130—W. Shires—*Garbage Can or Vessel.*



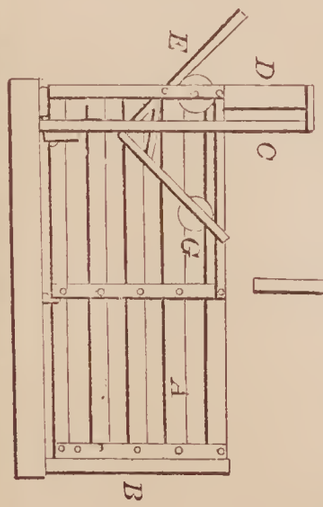
73128—B. F. Shaffer—*Swing.*



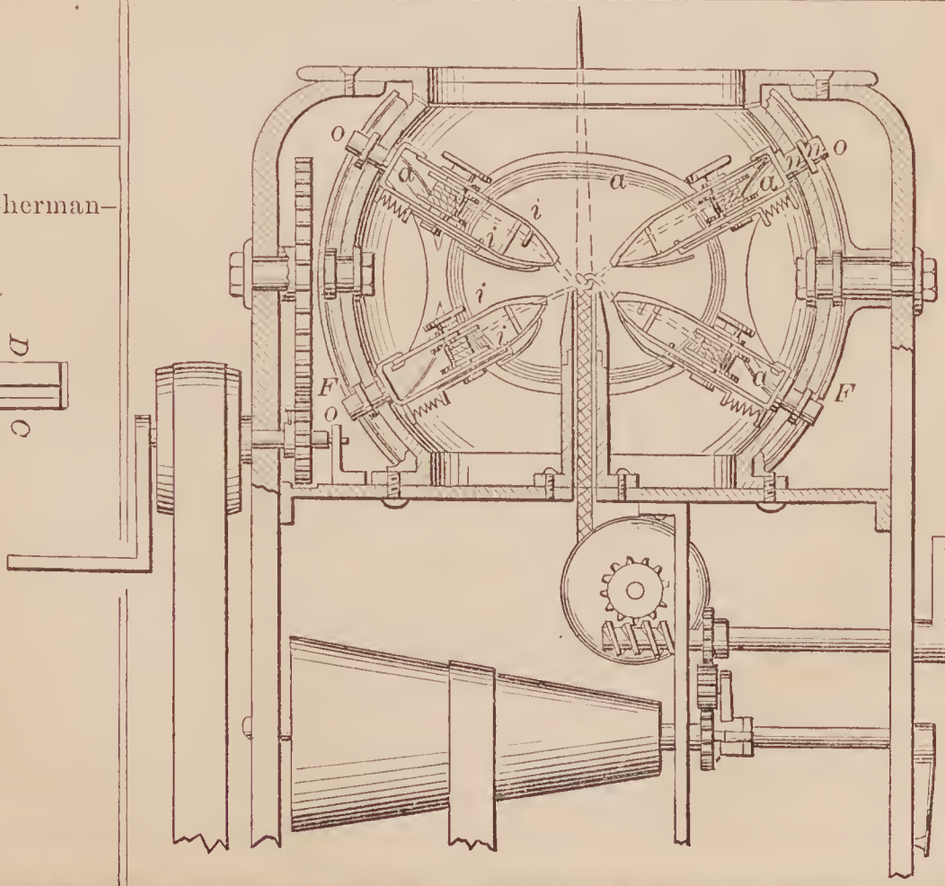
73127—J. K. Seem—*Clock Calendar.*



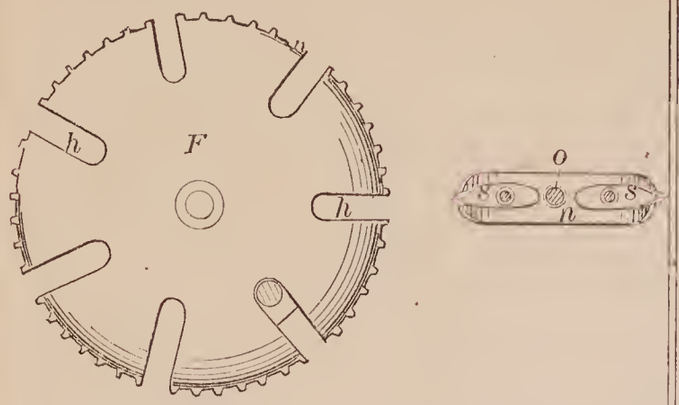
73129—T. E. Sherman—*Gate.*



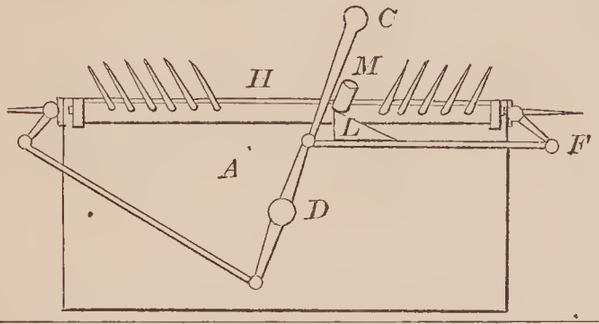
73131—P. L. Slayton—*For Braiding Whip Lashes.*



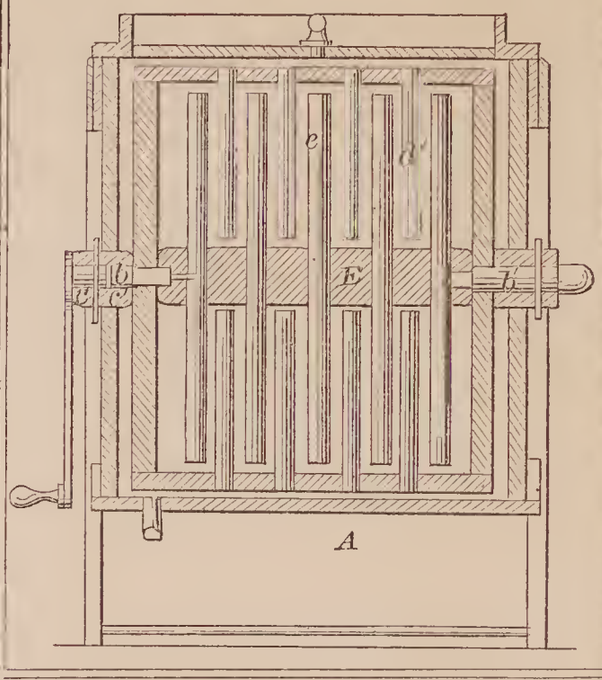
73131—*Continued.*



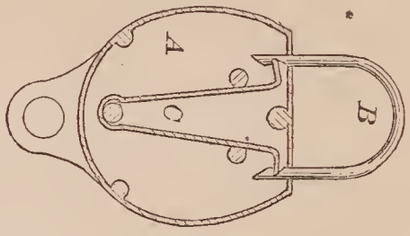
73132—G. R. K. Smith—*Wagon Protector.*



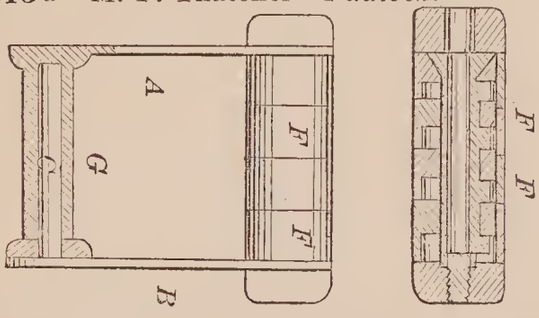
73134—S. H. Swasey—*Barrel Churn.*



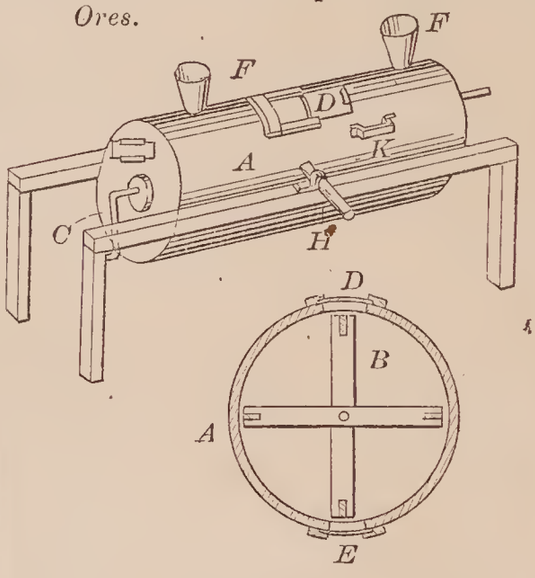
73133—G. W. Stevens—*Padlock.*



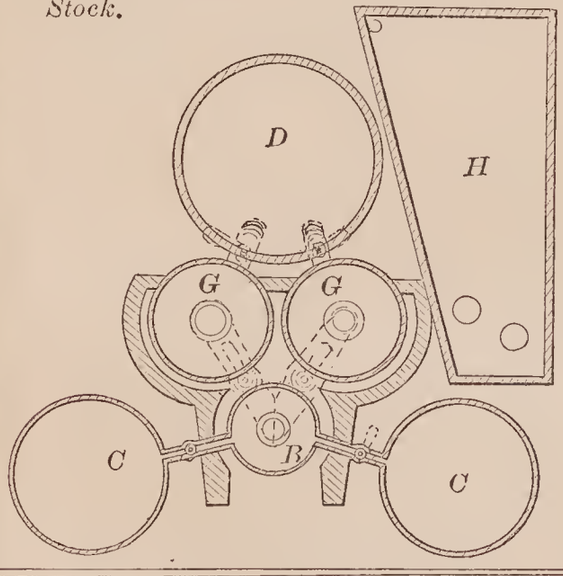
73136—M. P. Thatcher—*Padlock.*



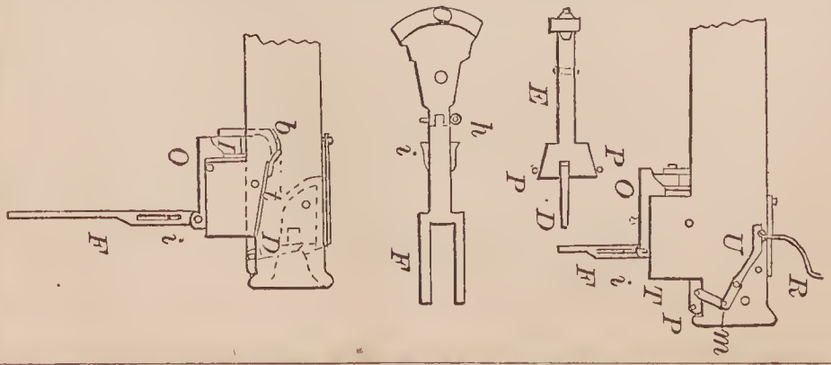
73137—W. A. Thompson—*For Treating Ores.*



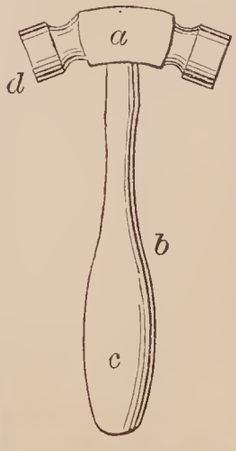
73138—J. Tiffany—*For Preparing Paper Stock.*



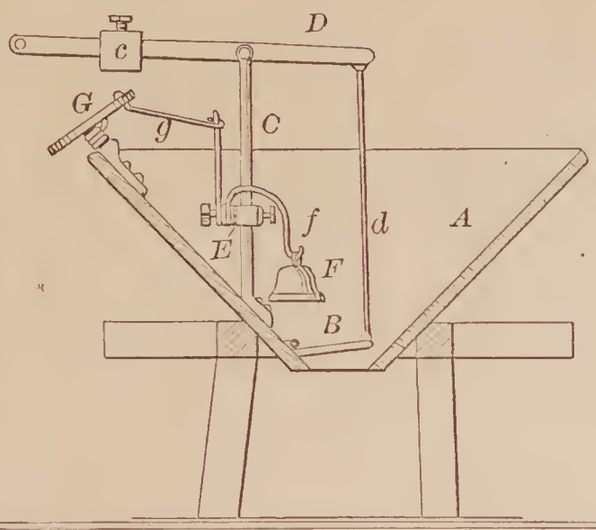
73140—J. N. & S. T. Vandegrift, French & Stone—*Car Coupling.*



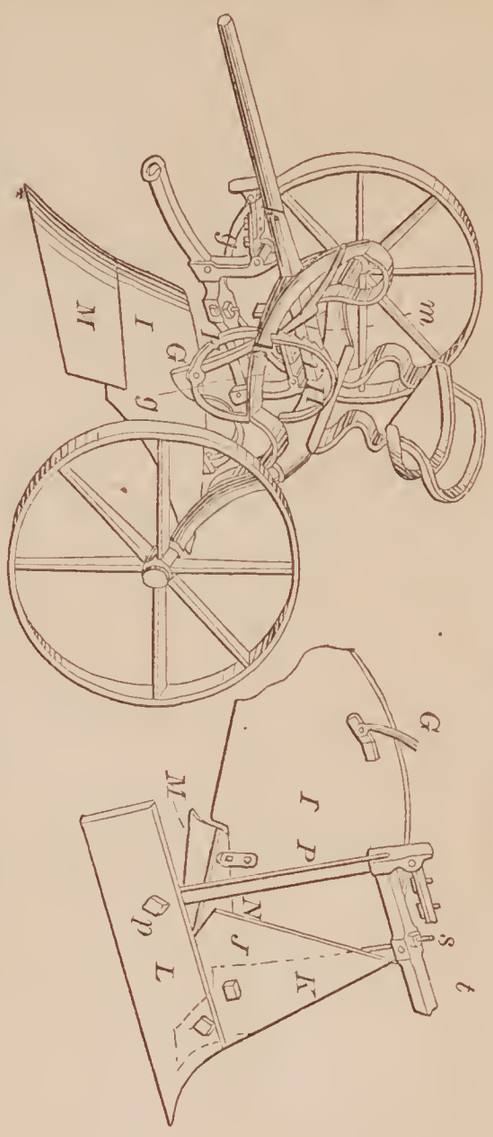
73141—J. Vegant—*Hammer.*



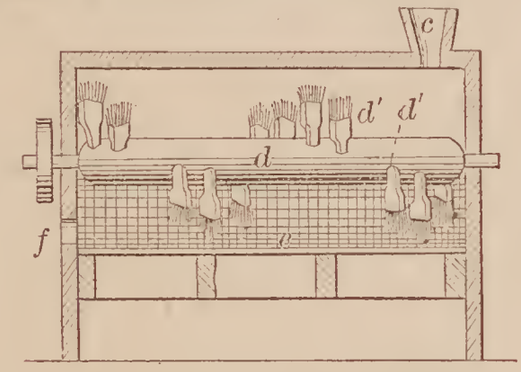
73142—D. C. Walters—*Grinding Mill Hopper Attachment*



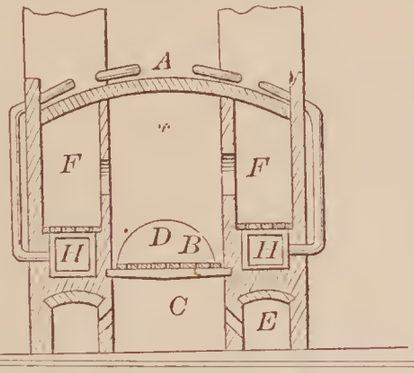
73143—J. Warwick—*Sulky Plow.*



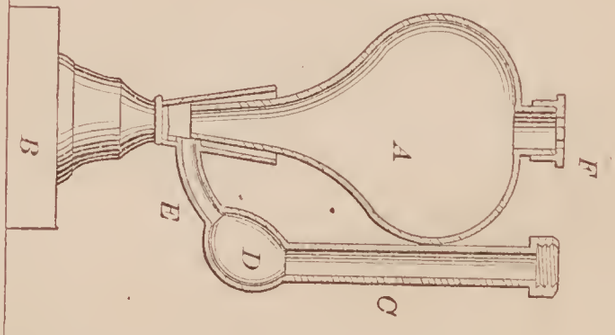
73144—M. Waterhouse—*Flock Duster.*



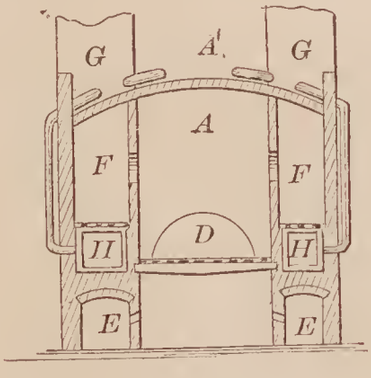
73146—S. Wetherill—*Manufacture of White Oxide of Zinc.*

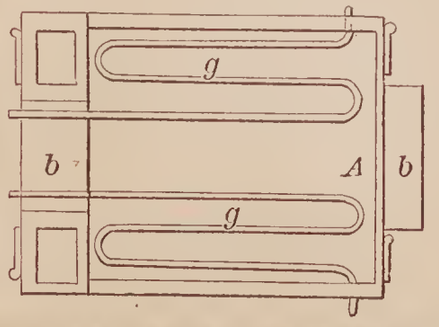


73145—H. B. Wellman—*Lamp.*

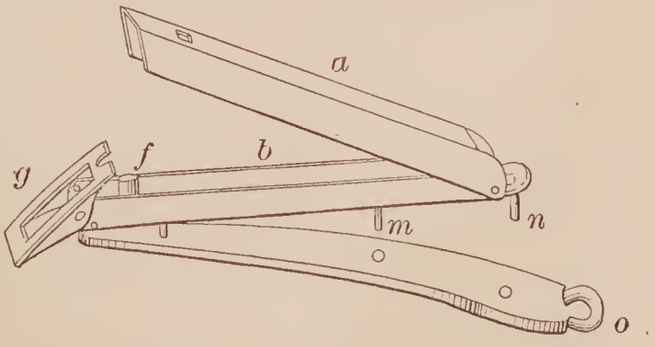


73147—S. Wetherill—*Manufacture of White Oxide of Zinc.*

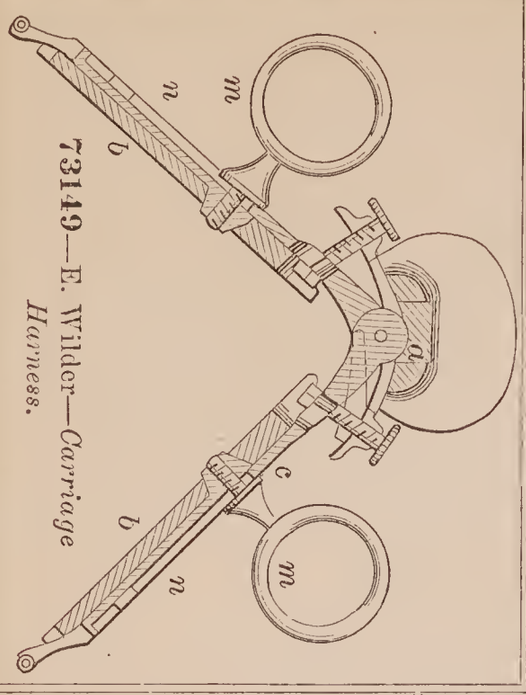




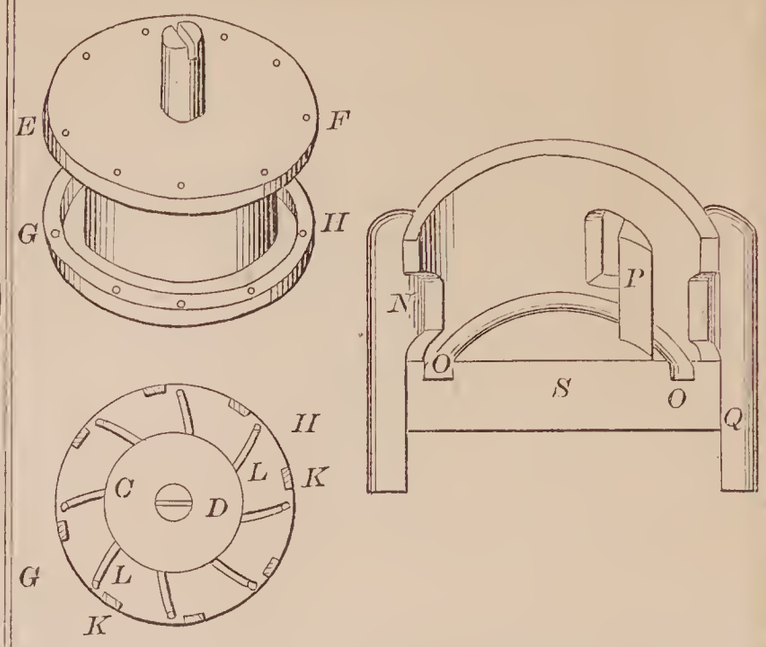
73148—L. Wetzell—*Hames Tug Buckle.*



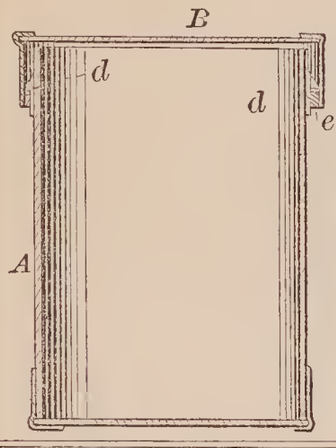
73149—E. Wilder—*Carriage Harness.*



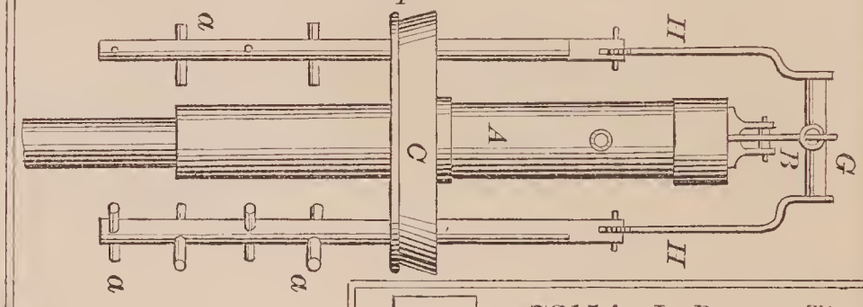
73150—Wilson & Houghton—*Water Wheel.*



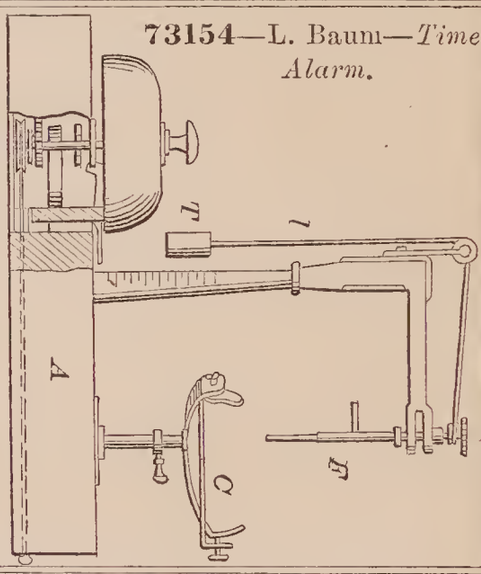
73151—F. H. Wilson—*Cheese Box and Butter Tub.*



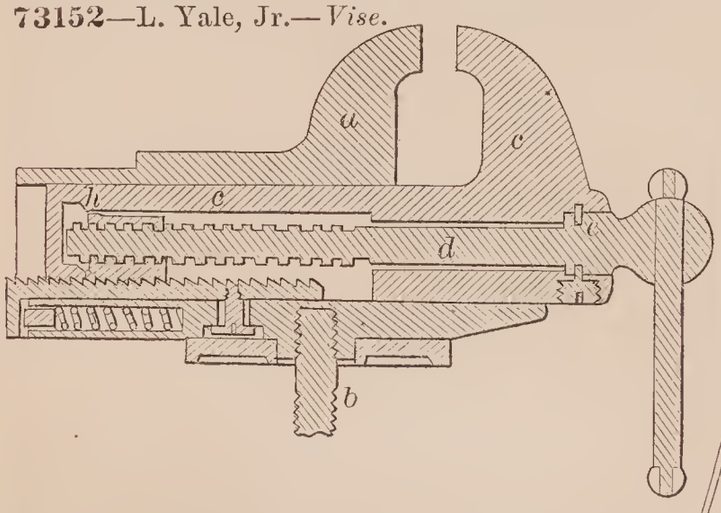
73153—F. Yeiser—*Pump.*



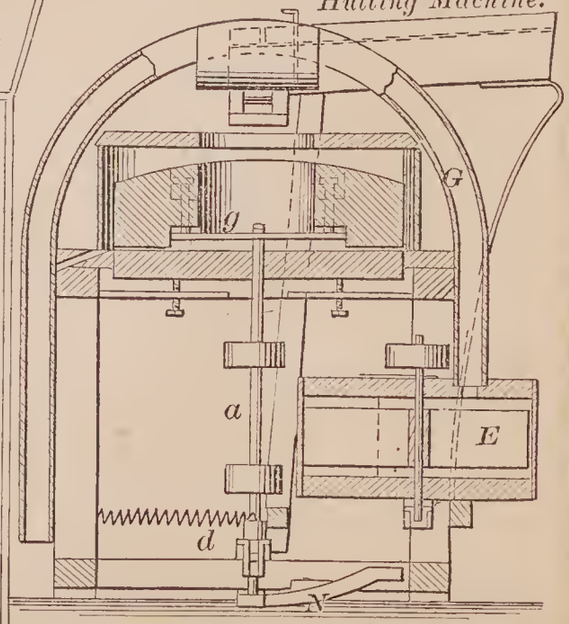
73154—L. Baum—*Time Alarm.*



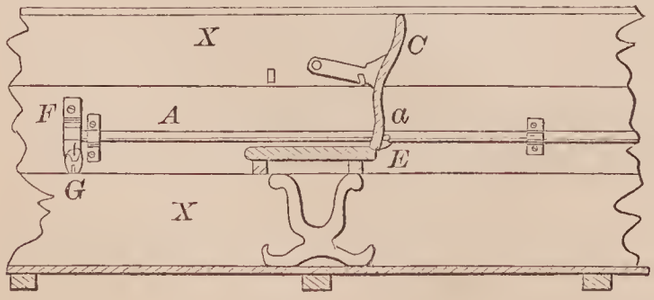
73152—L. Yale, Jr.—*Vise.*



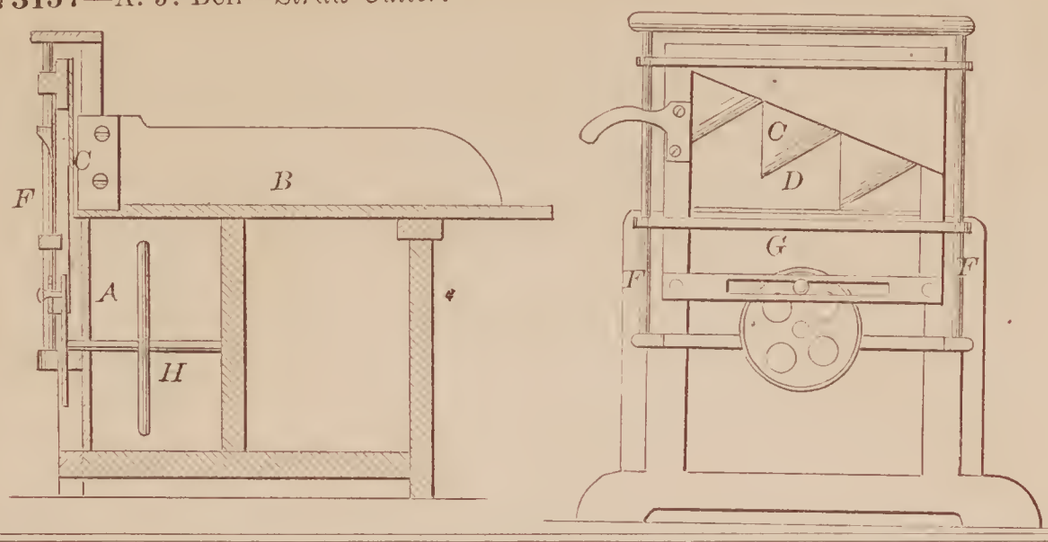
73156—J. Baysore—*Buckwheat Hulling Machine.*



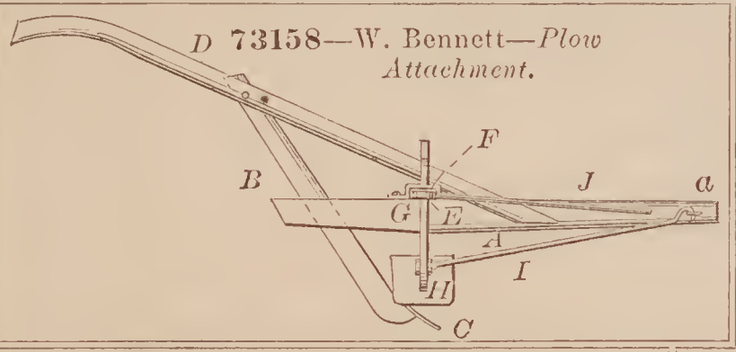
73155—Bayley & McCluskey—*Car Seat Lock.*



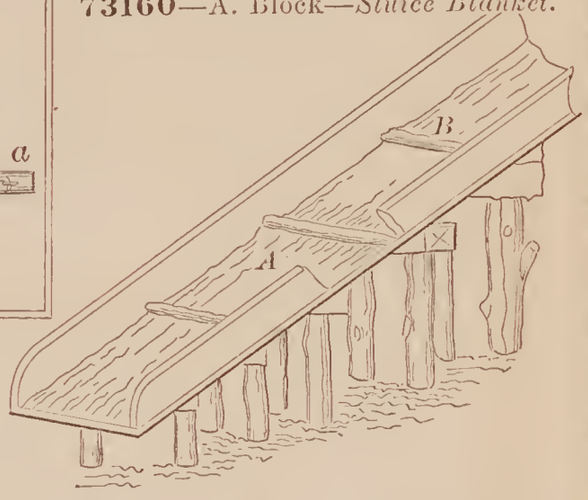
73157—A. J. Bell—*Straw Cutter.*



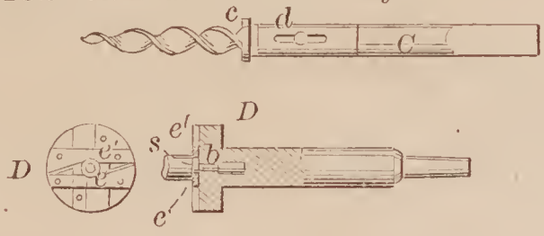
73158—W. Bennett—*Plow Attachment.*



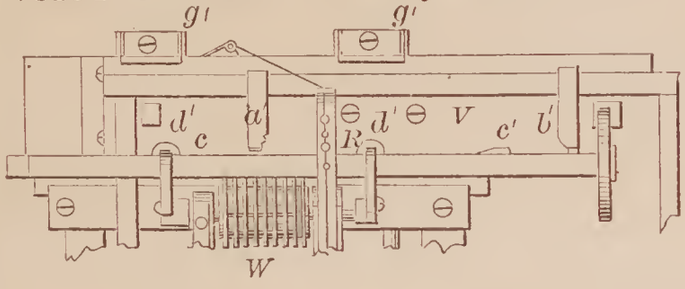
73160—A. Block—*Sluice Blanket.*

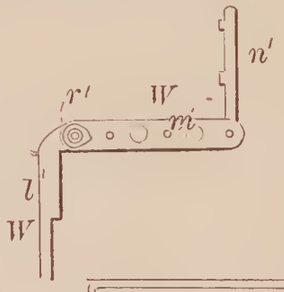


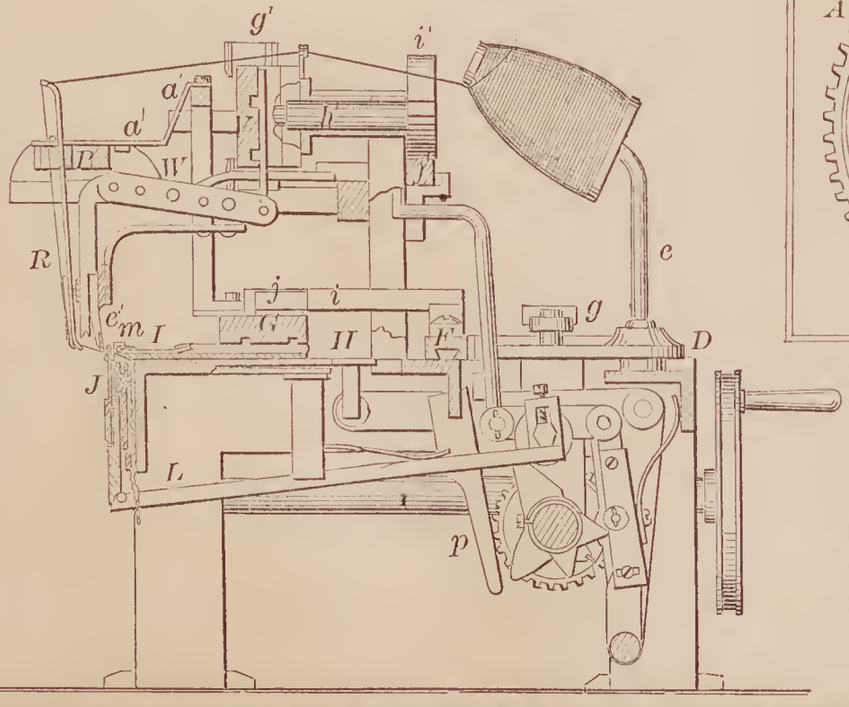
73162—A. Brush—*Hollow Auger.*



73164—J. Chantrell—*Knitting Machine.*

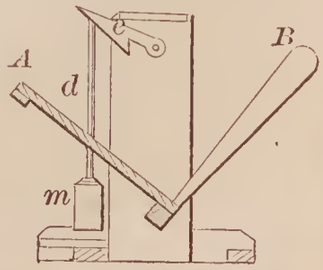




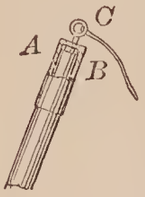


73161—G. A. Bowen—*Watch.*

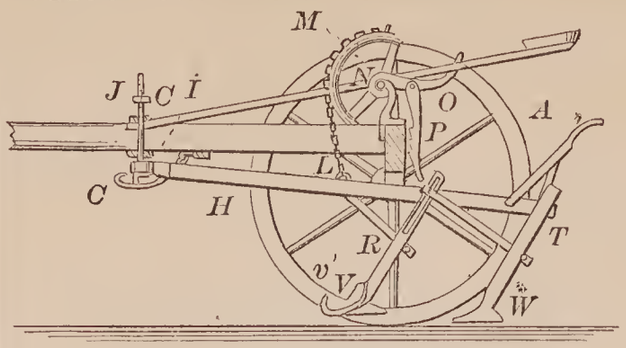
73159—H. Besse—*Automatic Water Gate.*



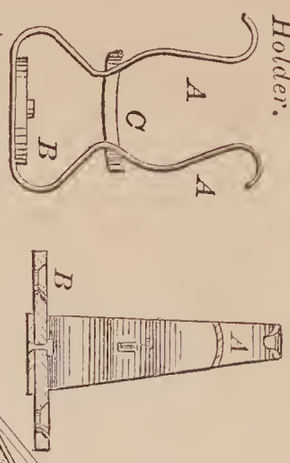
73165—J. S. Cook—*Whip.*



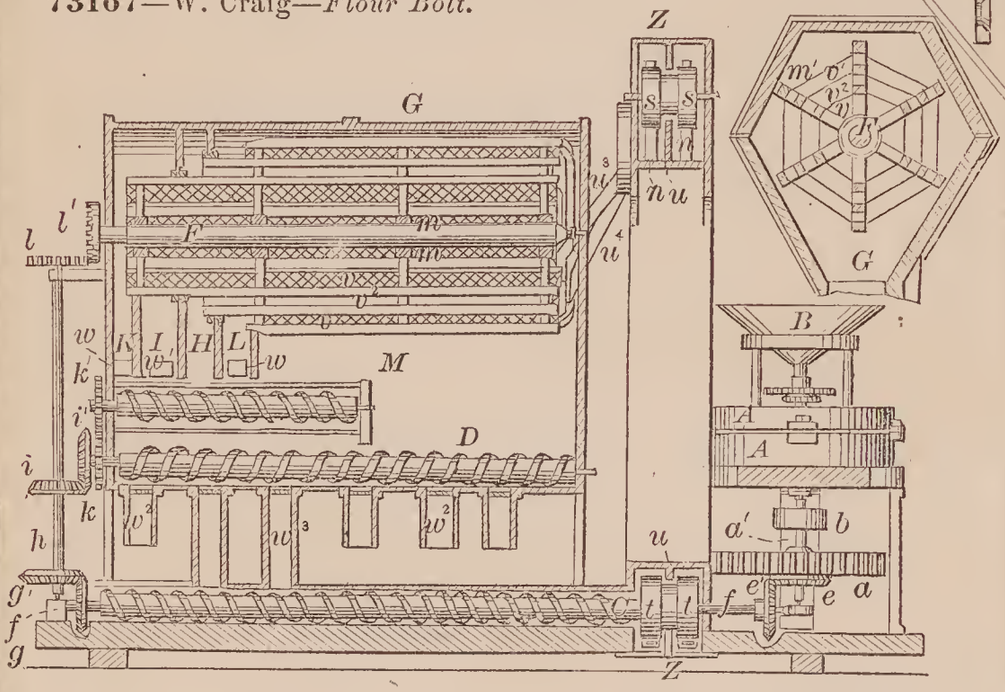
73166—Cox & Pence—*Corn Plow.*



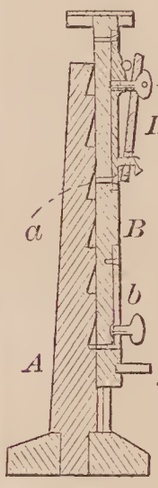
73169—A. G. Davis—*Brush Holder.*



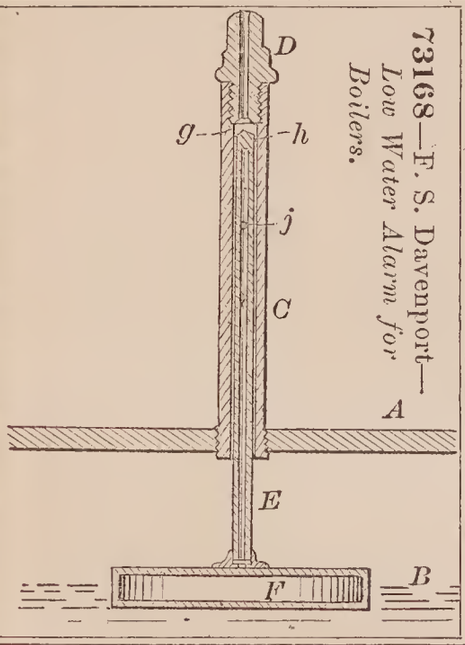
73167—W. Craig—*Flour Bolt.*



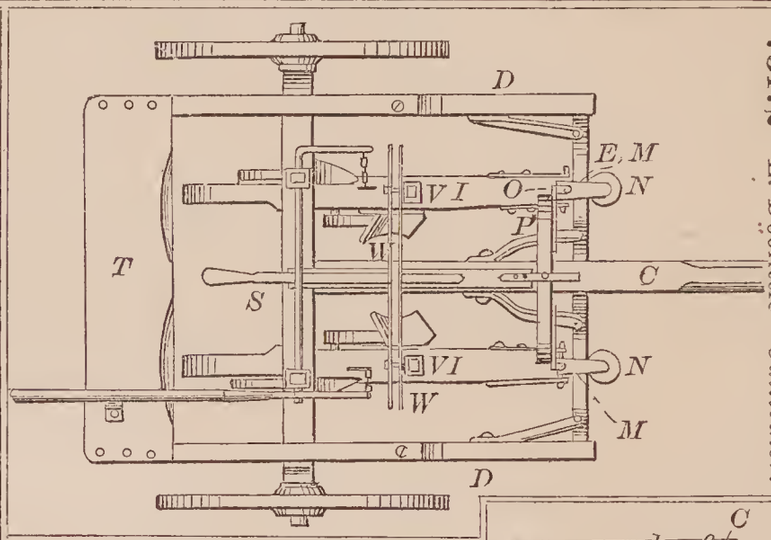
73171—G. Dittenhaver—*Clothes Post.*



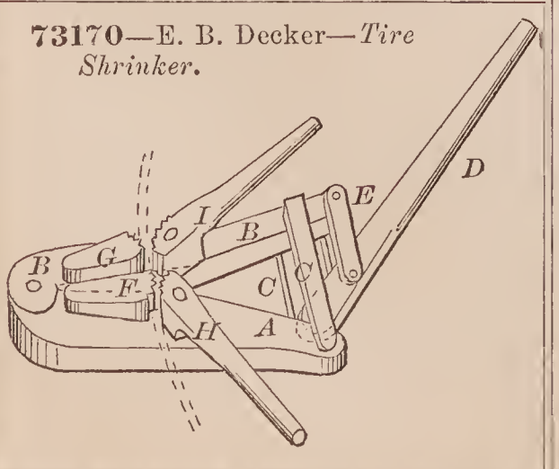
73168—F. S. Davenport—*Low Water Alarm for Boilers.*



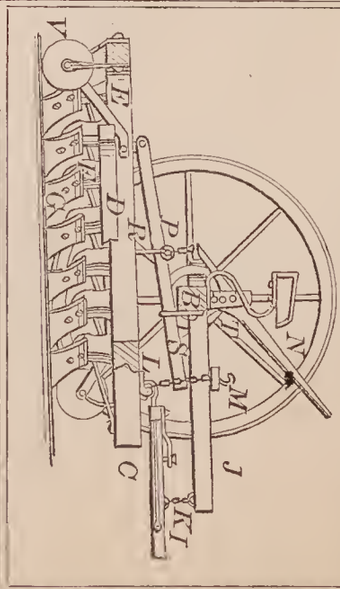
73172—E. Doolittle—*Cultivator.*



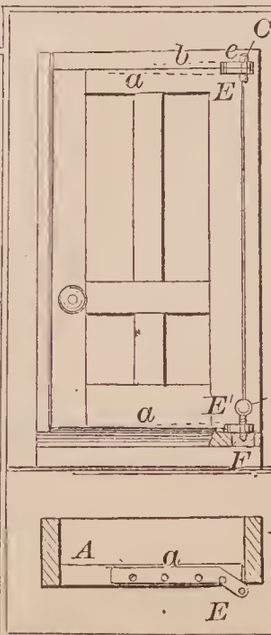
73170—E. B. Decker—*Tire Shrinker.*



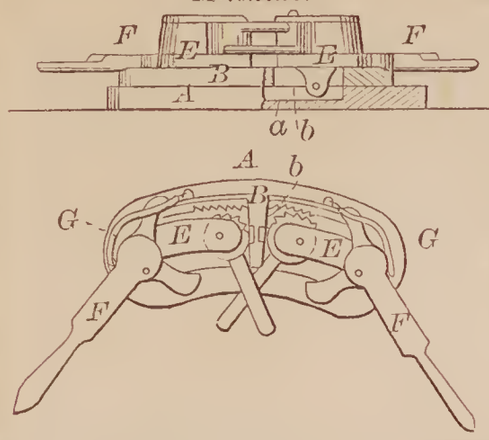
73173—J. W. Doud—*Cultivator.*



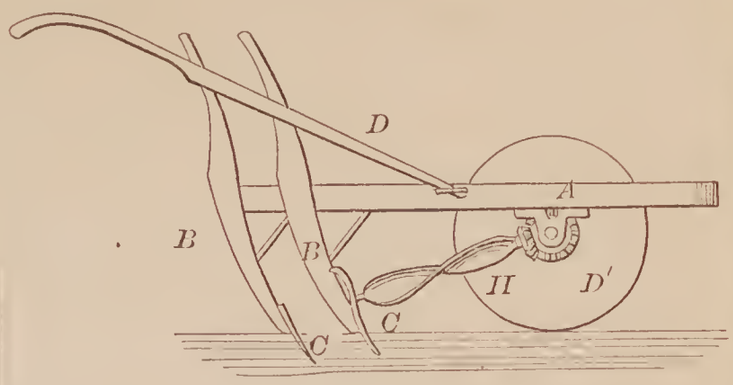
73174—C. Dupre—*Door Hinge.*



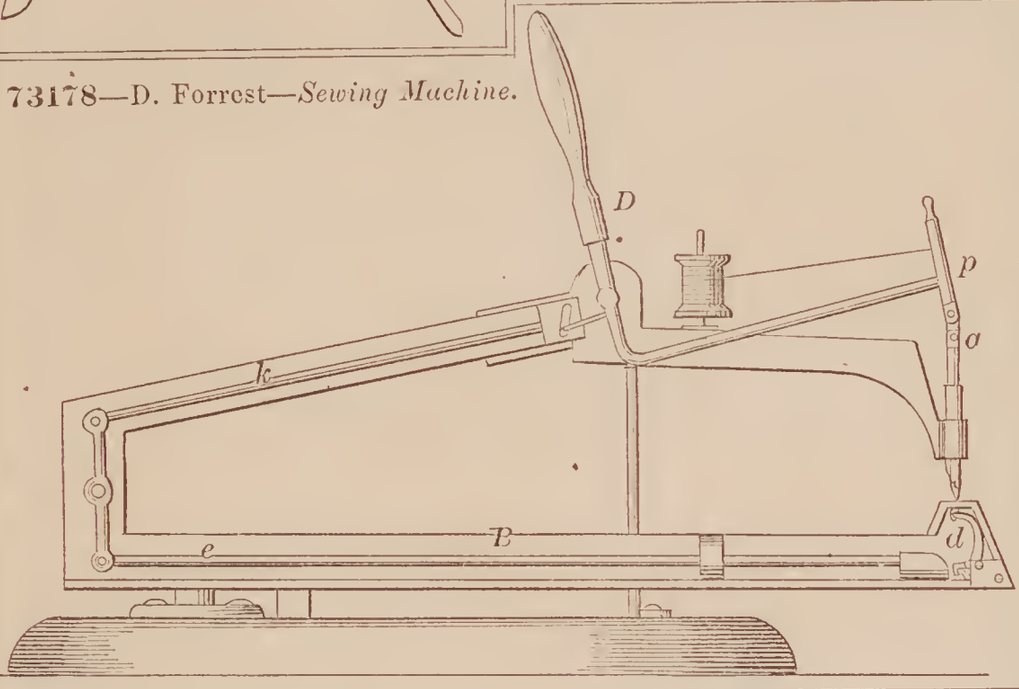
73175—J. Elliott—*Tire Shrinking Machine.*



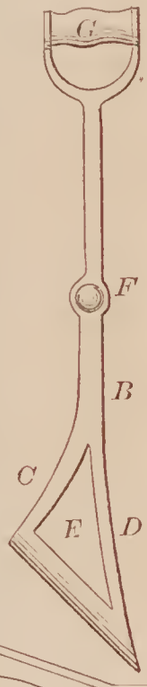
73181—C. A. Harper—*Cultivator*



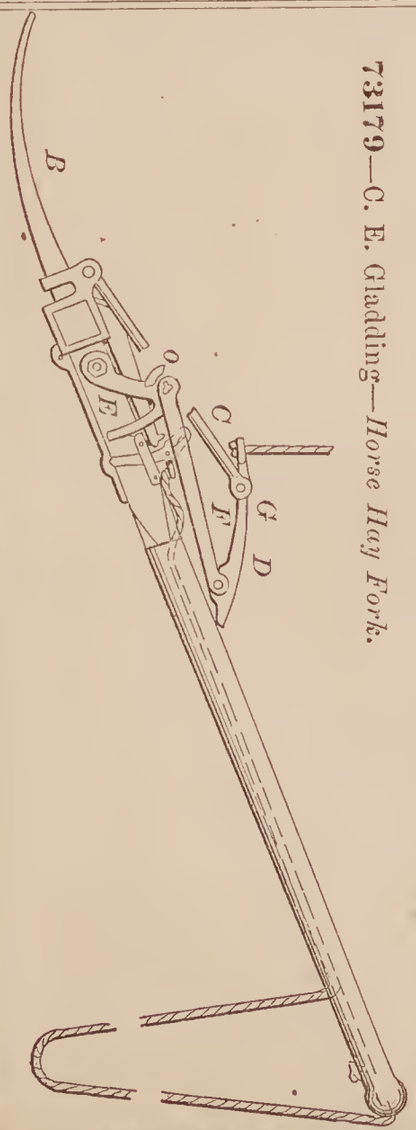
73178—D. Forrest—*Sewing Machine.*



73177—C. A. Fisher—*Hay Knife.*

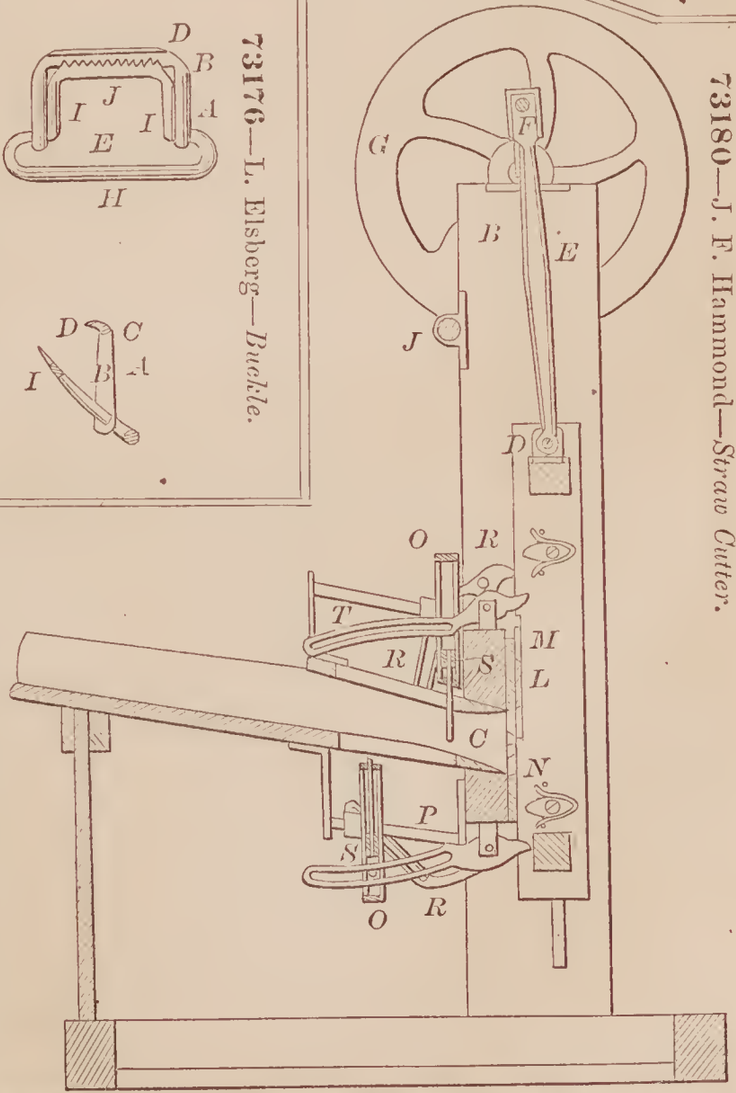


73179—C. E. Gladding—*Horse Hay Fork.*

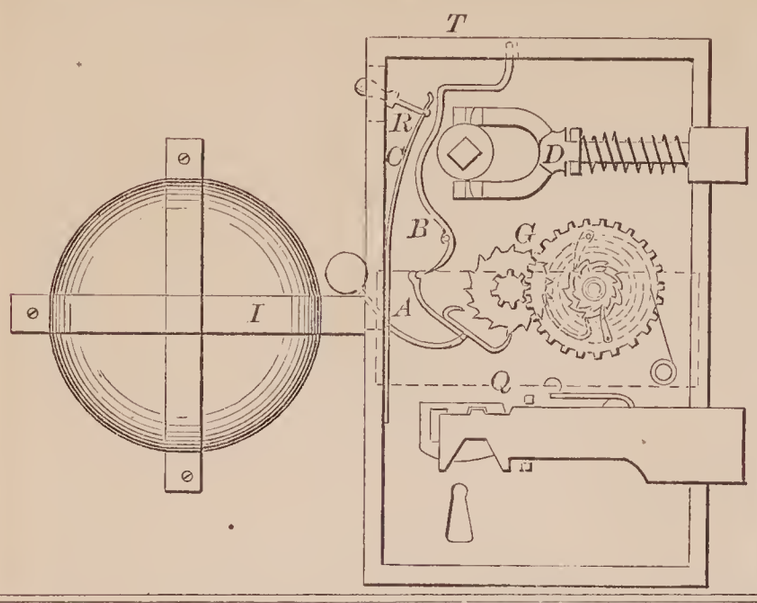


73176—L. Elsberg—*Buckle.*

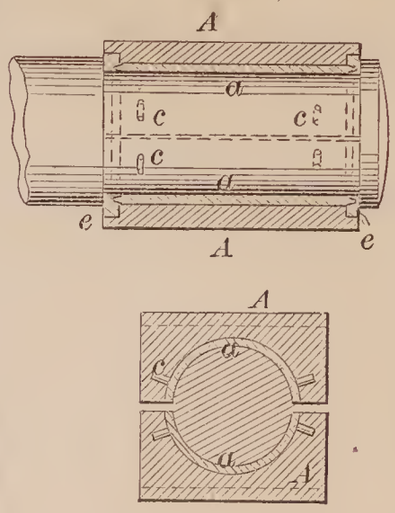
73180—J. F. Hammond—*Straw Cutter.*



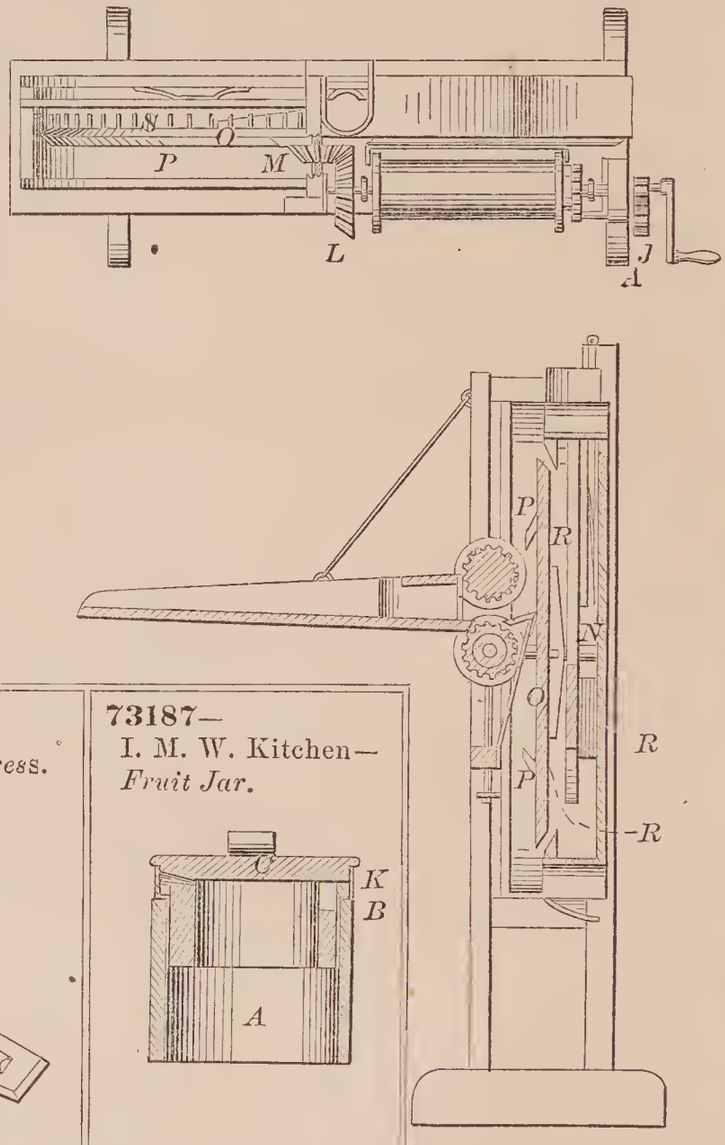
73182—P. T. Heminway—*Burglar Alarm Lock.*



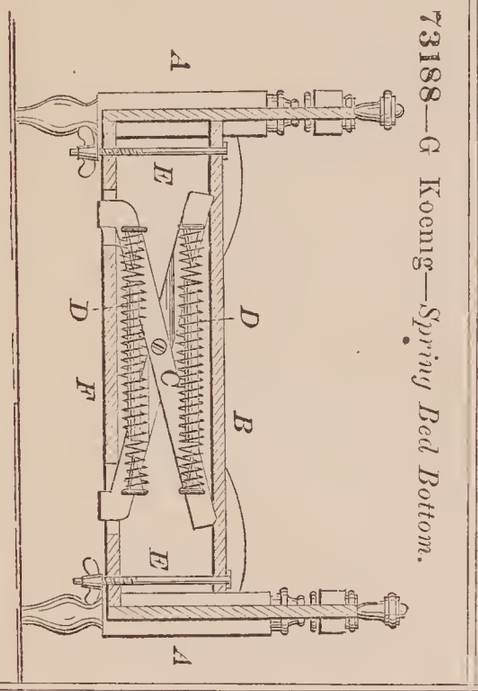
73183—G. H. Henfield—*Car Axle Box.*



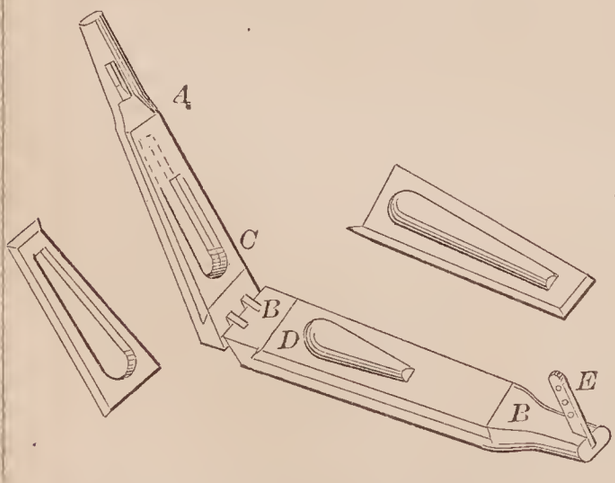
73184—C. R. Hewett—*Straw Cutter and Corn Sheller.*



73188—G. Koenig—*Spring Bed Bottom.*

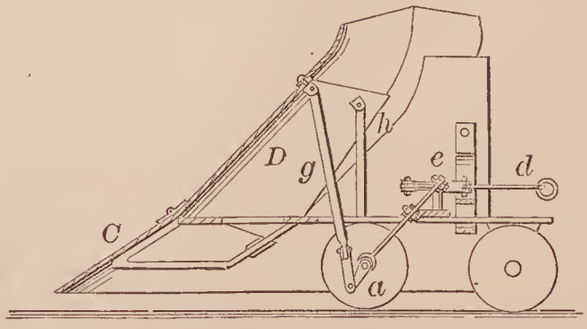


73186—G. Kennedy—*Pad Crimp Press.*

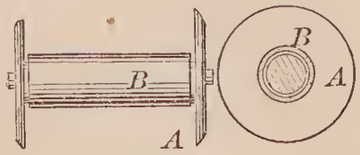


73187—I. M. W. Kitchen—*Fruit Jar.*

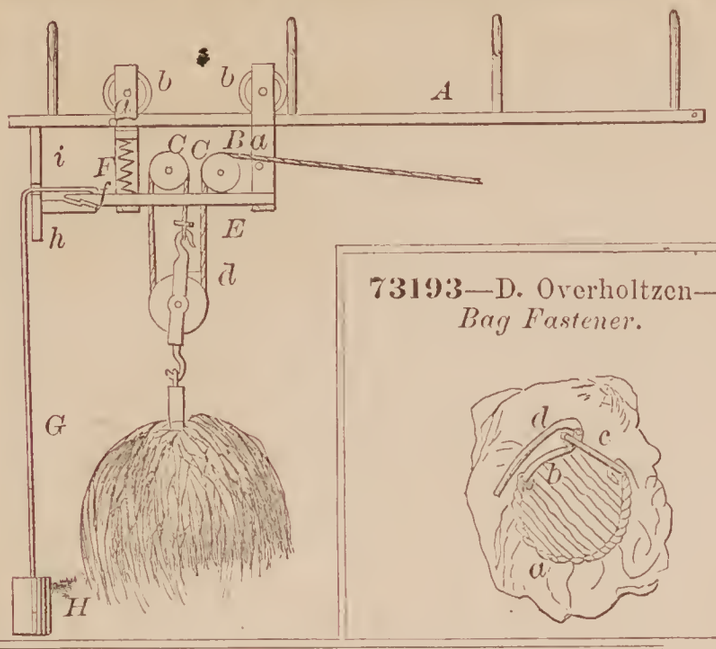
73189—C. Lusted—*Snow Plow.*



73185—A. P. Holmes—*Bobbin.*

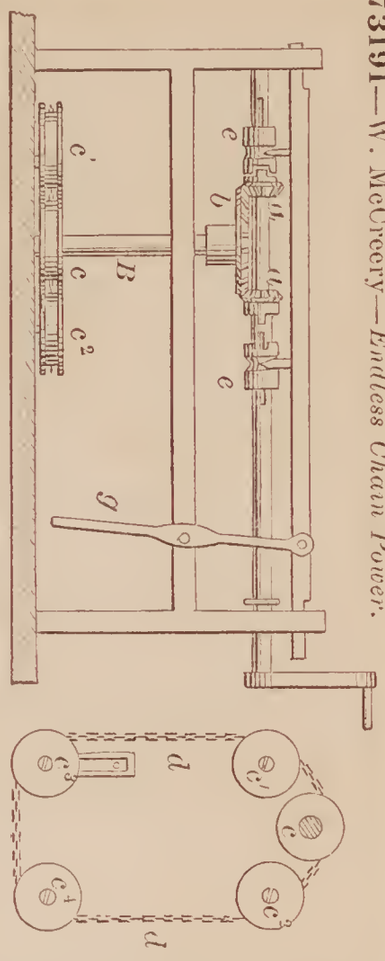


73190—H. & L. M McCown—*Hay Elevator.*

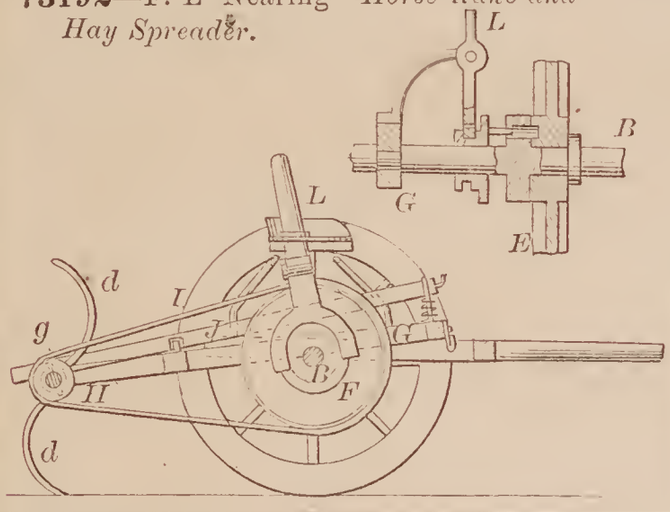


73193—D. Overholtzen—*Bag Fastener.*

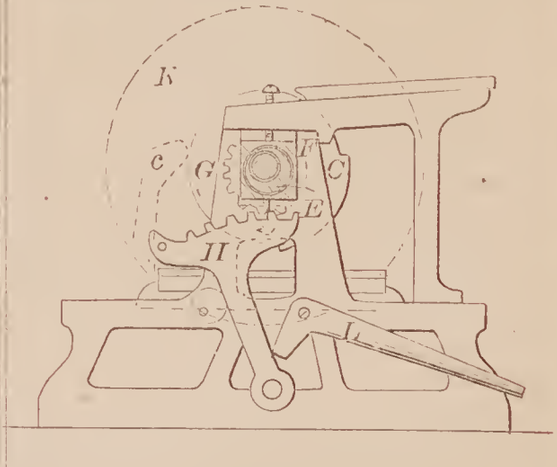
73191—W. McCreery—*Endless Chain Power.*



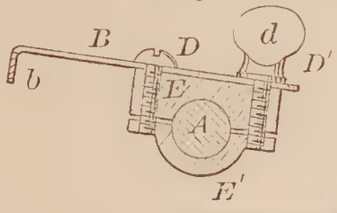
73192—F. E Nearing—*Horse Rake and Hay Spreader.*



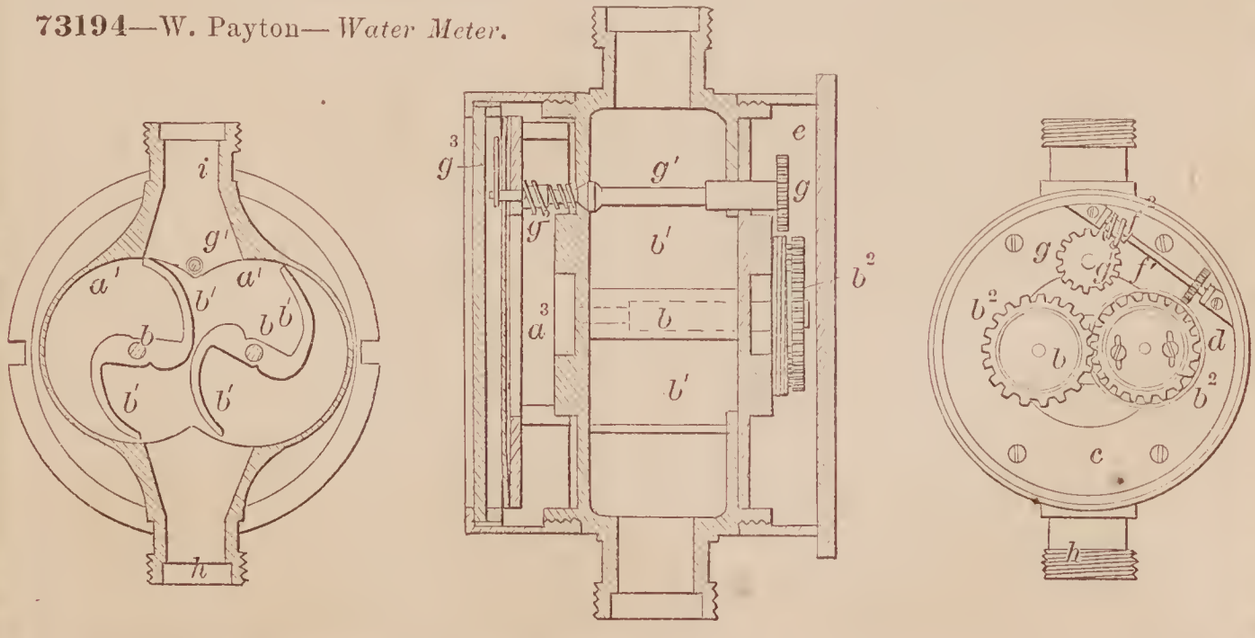
73195—C. Potter, Jr.—*Printing Press.*



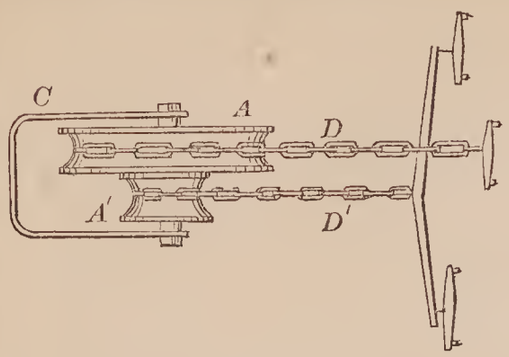
73196—C. Potter, Jr.—*Feed Gauge for Printing Presses.*



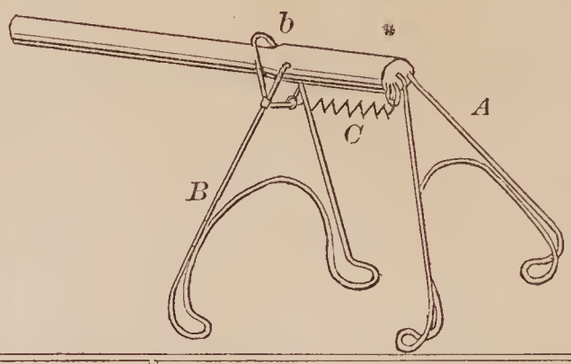
73194—W. Payton—*Water Meter.*



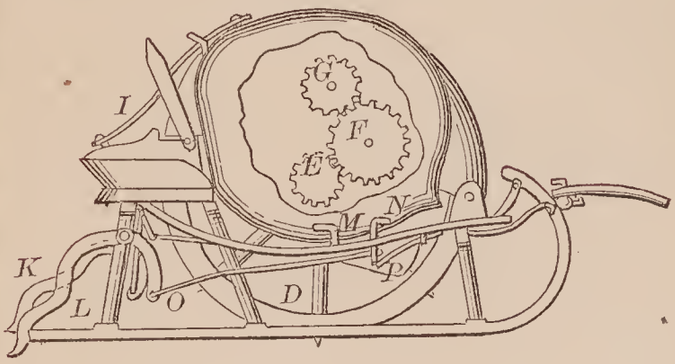
73197—E. M. Potter—*Clevis.*

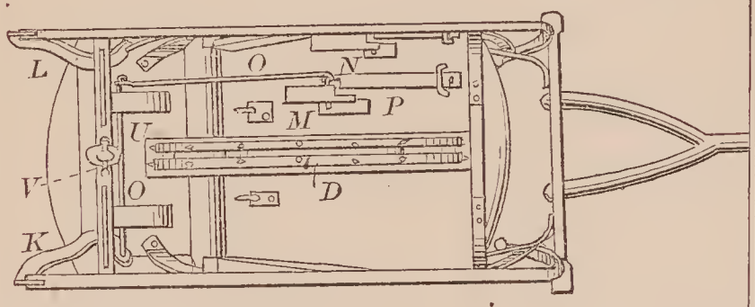


73199—D. E. Roc—*Plate Lifter.*

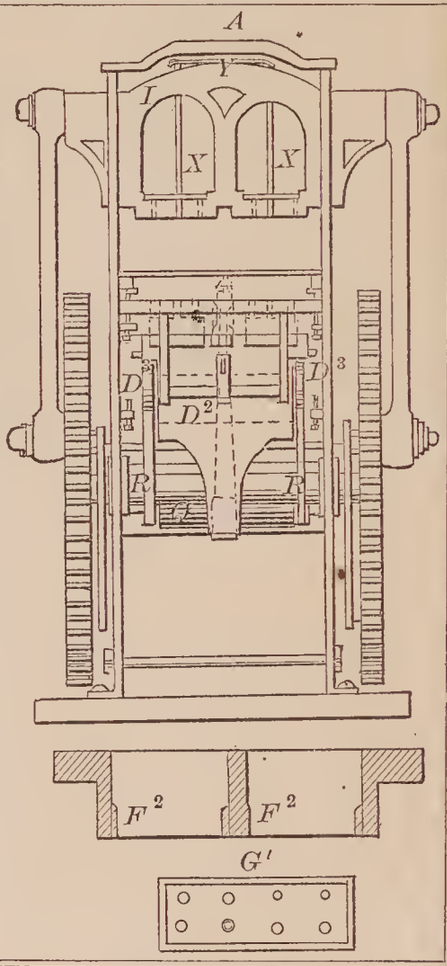


73198—J. Rancevan—*Ice Sleigh.*

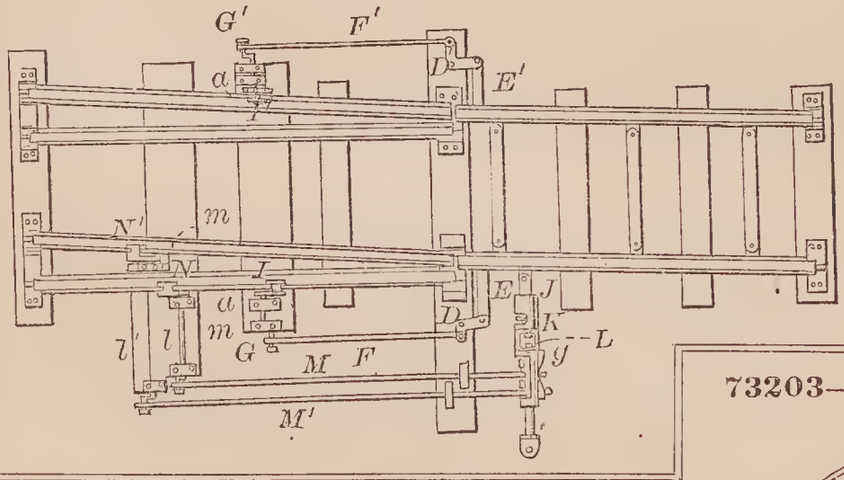


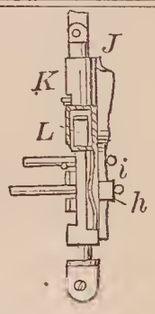


73201—Sangster, Dobbins & Richards—*Brick Machine.*

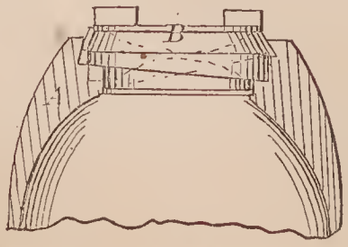


73200—Rogers & Crane—*Railway Switch.*

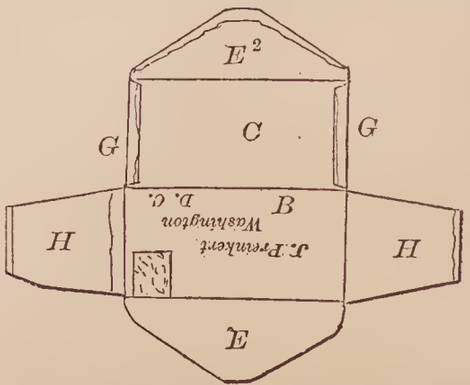




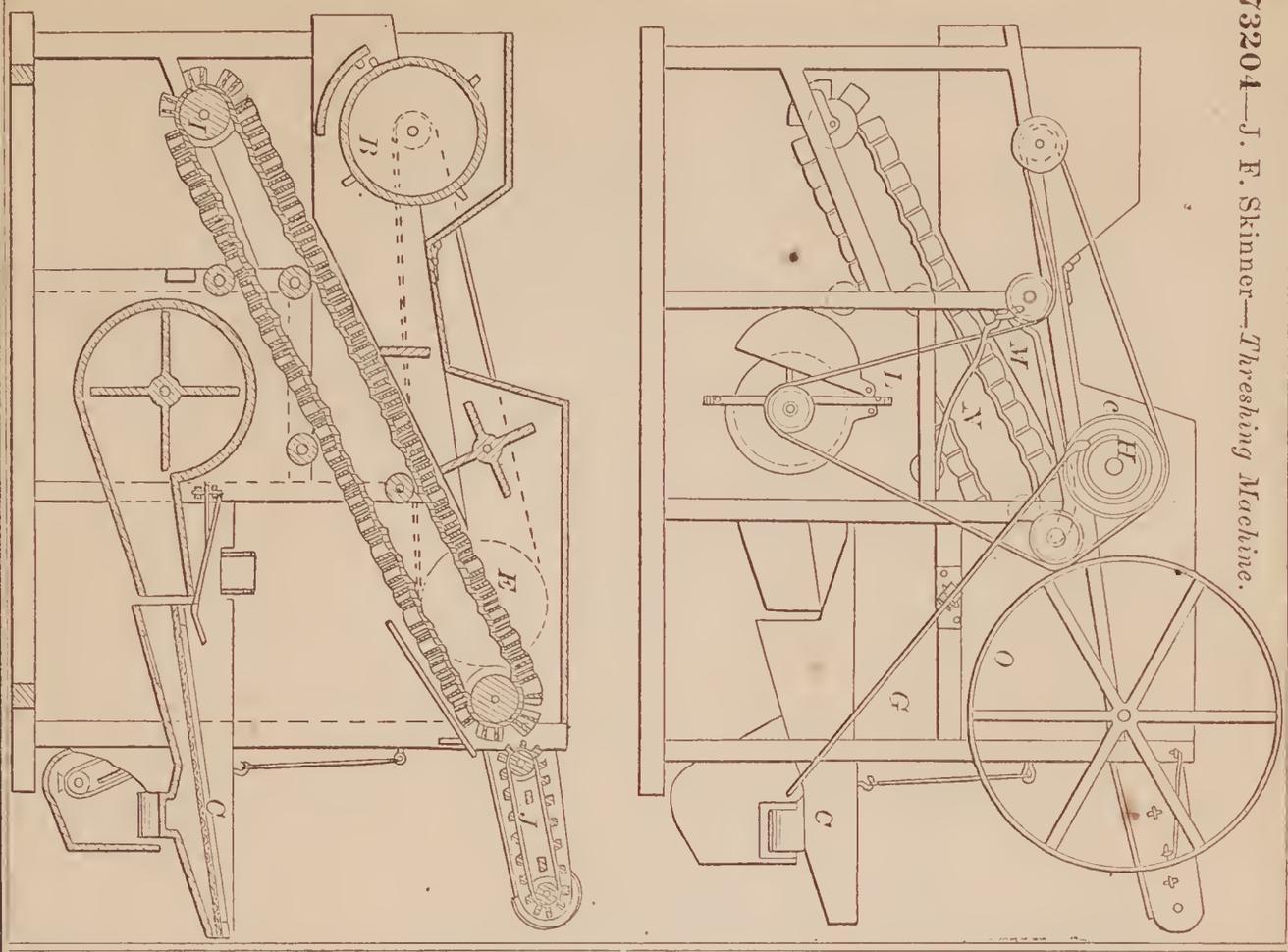
73202—F. J. Shefferly—*Preserve Jar.*



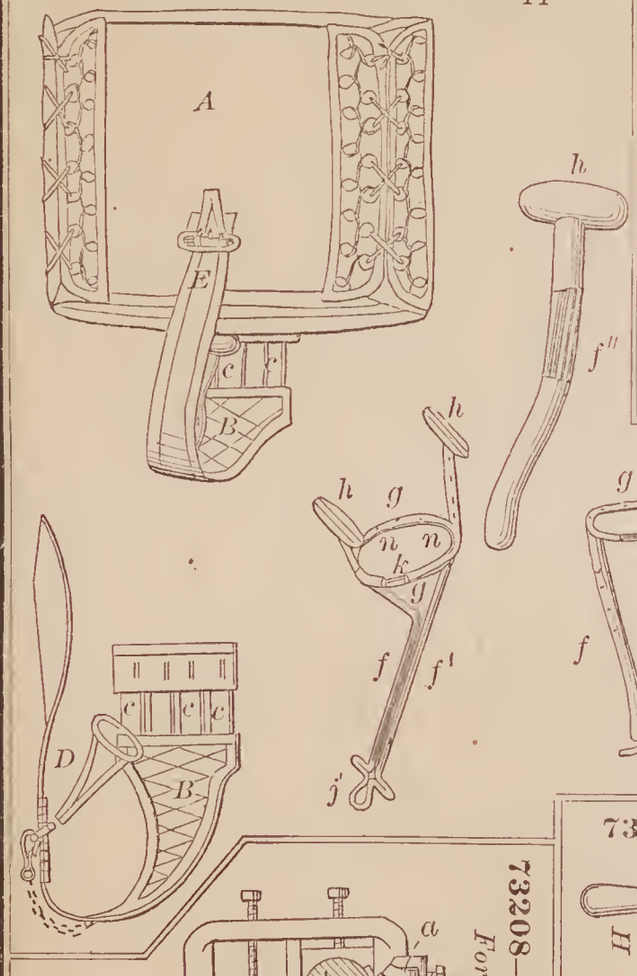
73203—F. M. Shields—*Envelope.*



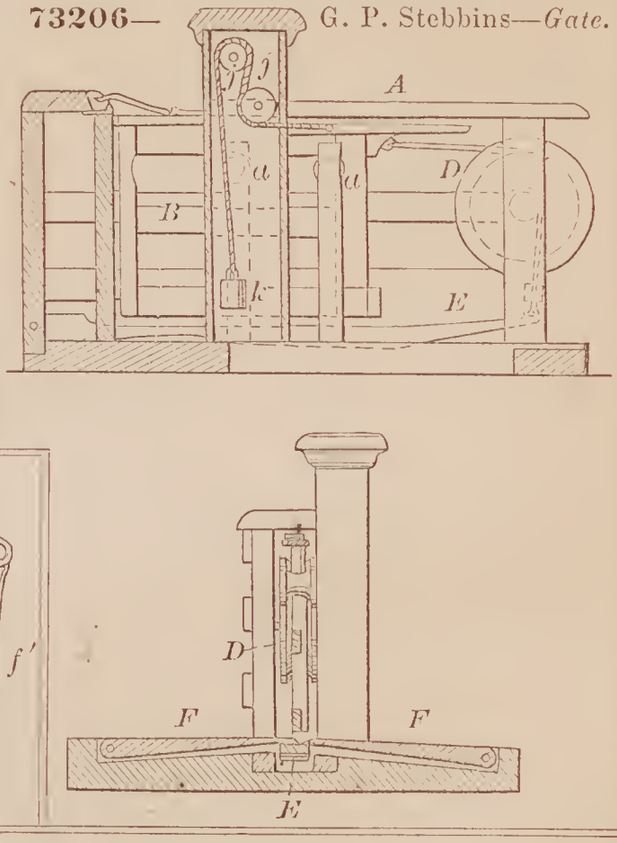
73204—J. F. Skinner—*Threshing Machine.*



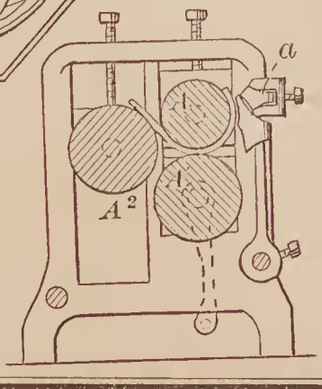
73207—A. J. Steele—*Abdominal Supporter.*



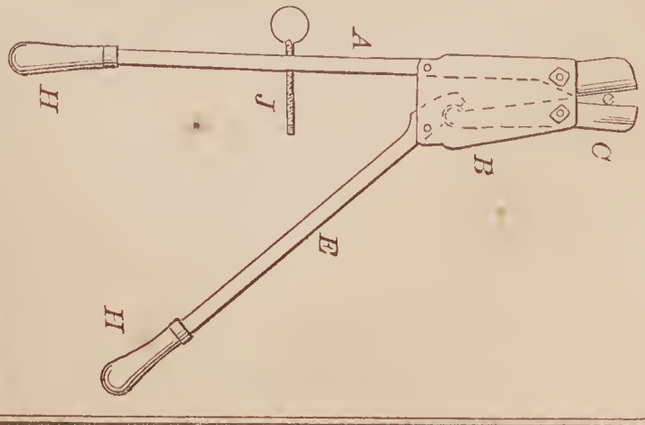
73206— G. P. Stebbins—*Gate.*



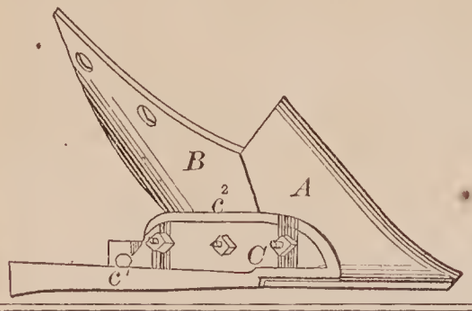
73208—W. Stine—*Tinners' Forming Machine.*



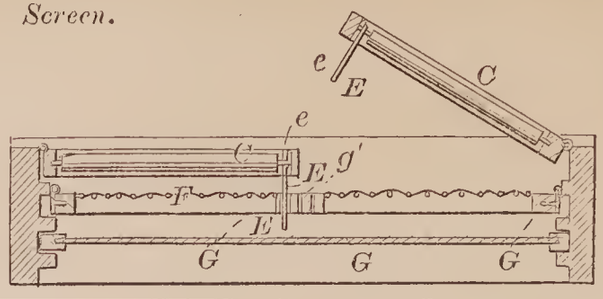
73205—E A. Sloat—*Bolt Cutter.*



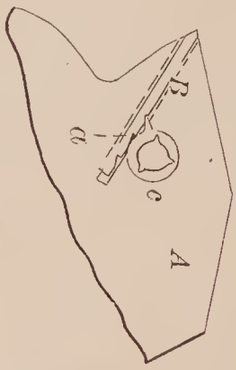
73209—J. Uric—*Plow.*



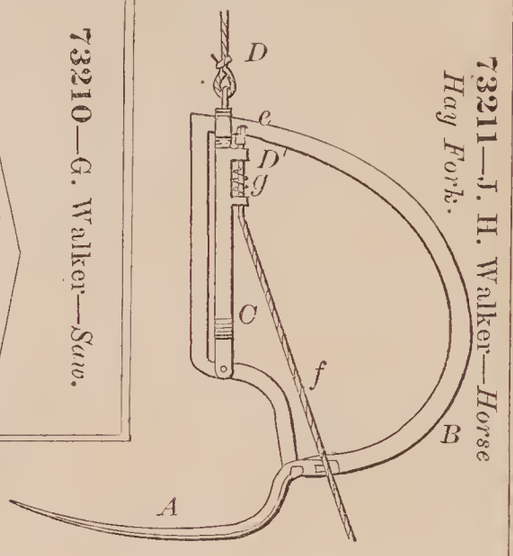
73213—J. R. Wharry—*Ventilator and Window Screen.*

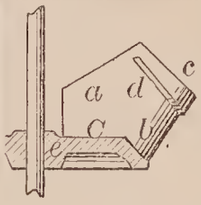


73210—G. Walker—*Saw.*

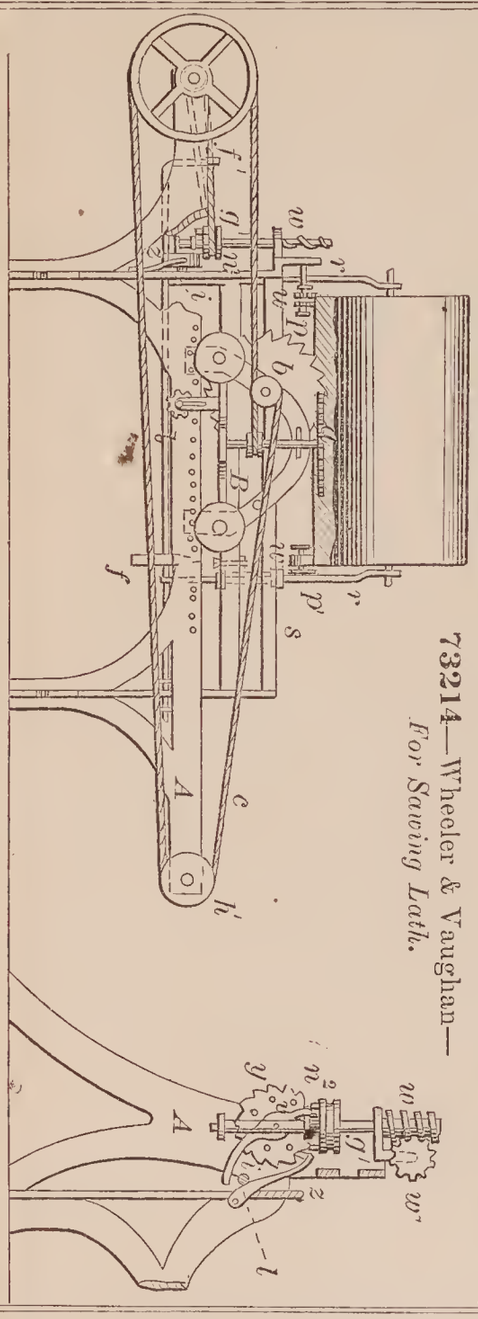


73211—J. H. Walker—*Horse Hay Fork.*

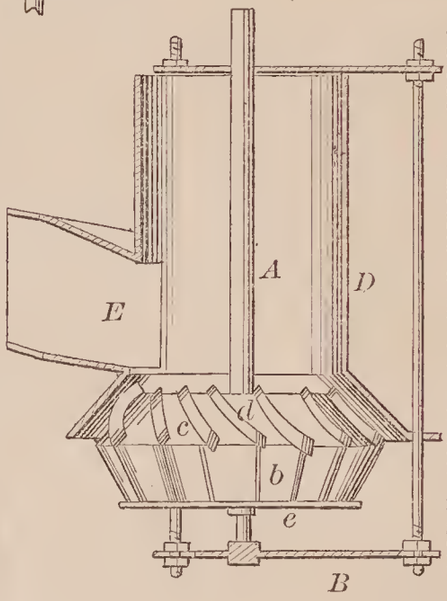




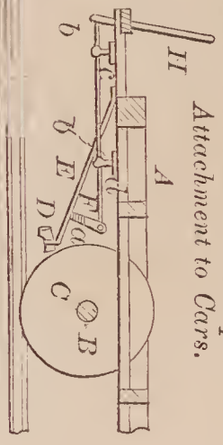
73214—Wheeler & Vaughan—*For Sewing Lath.*



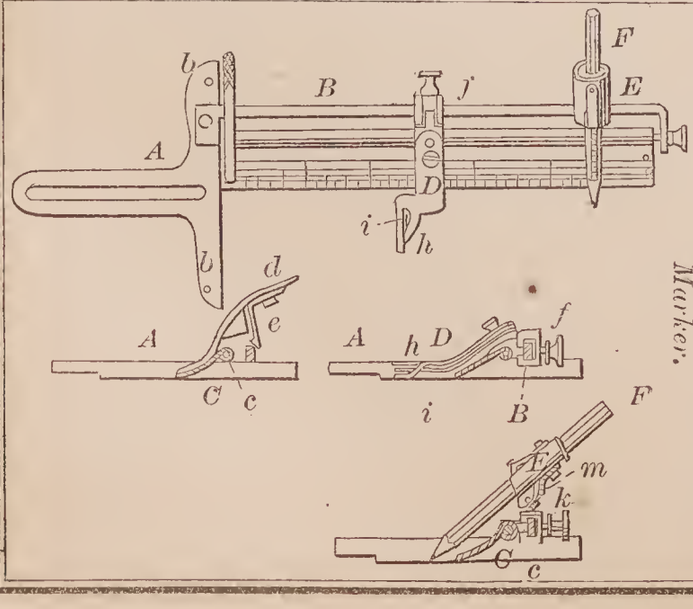
73215—Wheeler & Allen—*Water Wheel.*



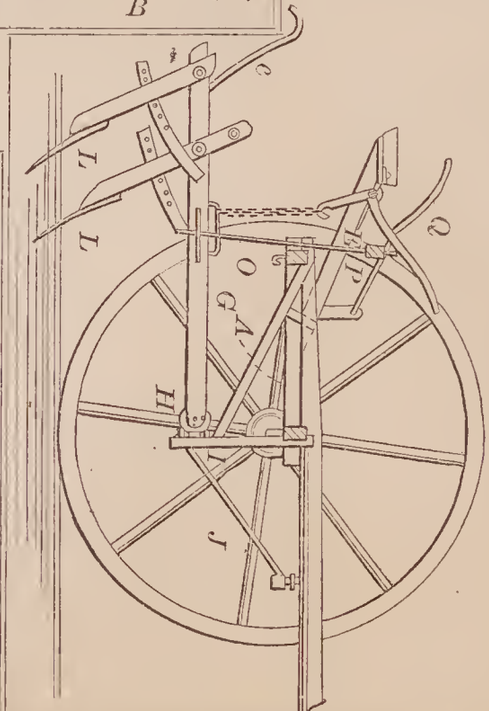
73212—E. B. Wells—*Scraper Attachment to Cars.*



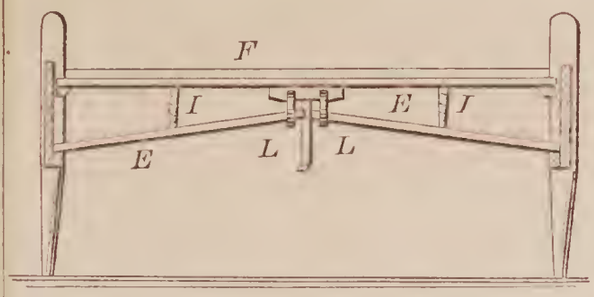
73216—J. P. White—*Sewing Machine Marker.*



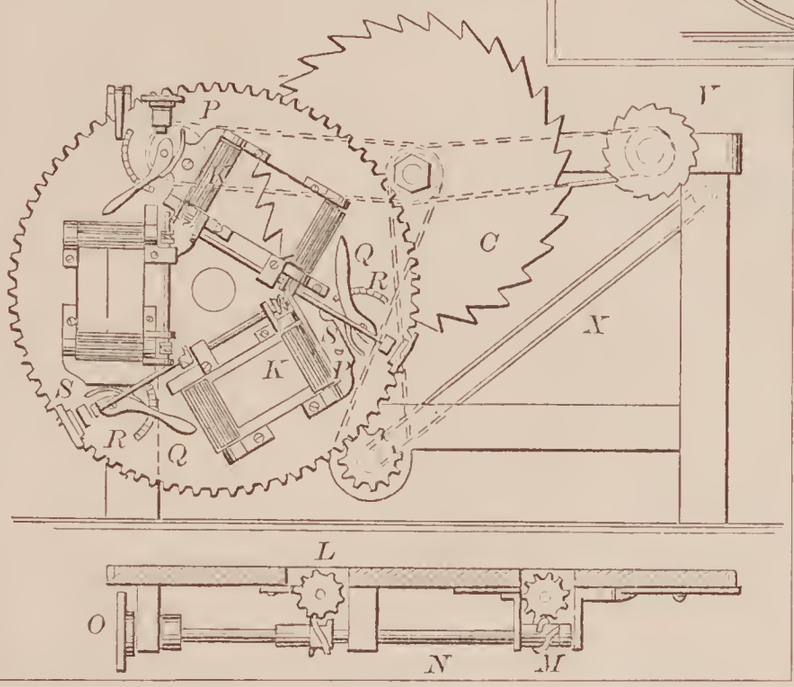
73217—J. Widman—*Cultivator.*



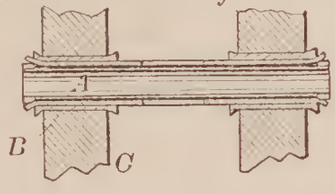
73218—S. J. Wingate—*Bed Bottom.*



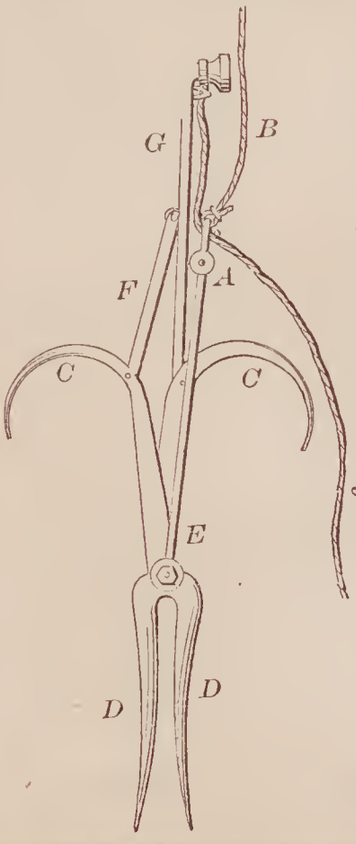
73219—H. Woodman—*Shingle Machine.*



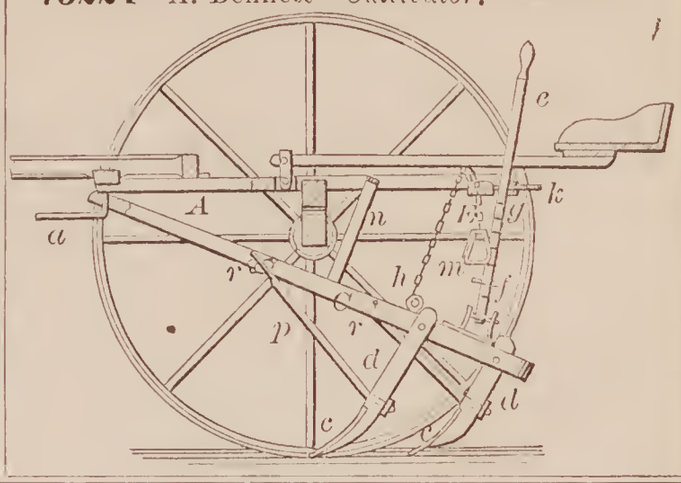
73221—H. Allen—*Connecting Tubes with Heads of Condensers.*



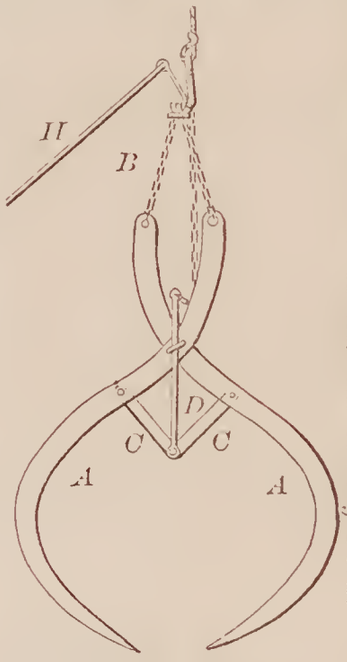
73223—L. Atwater—*Horse Hay Fork.*



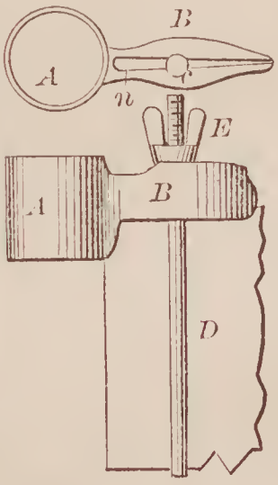
73224—A. Bennett—*Cultivator.*



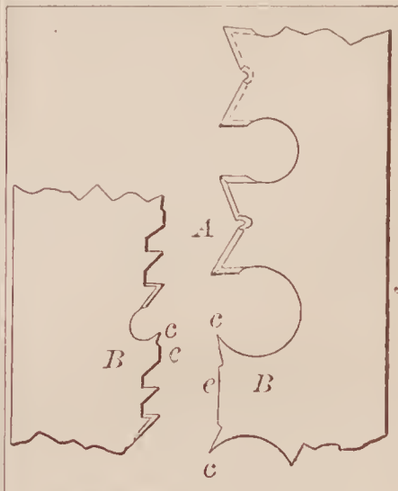
73222—D. W. Amos—*Horse Hay Fork.*



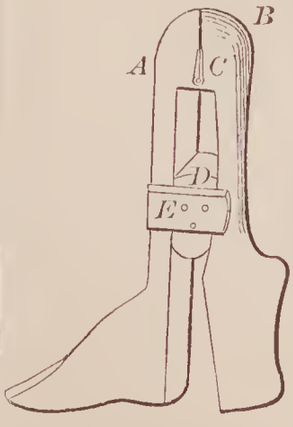
73227—E. M. Boynton—*Saw Tang.*



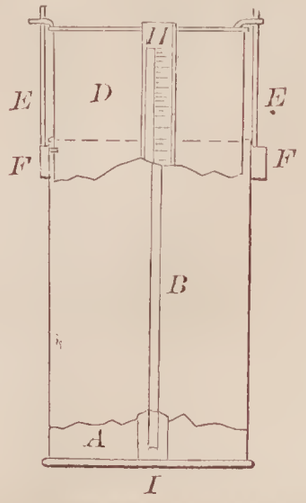
73226—E. M. Boynton—*Saw.*



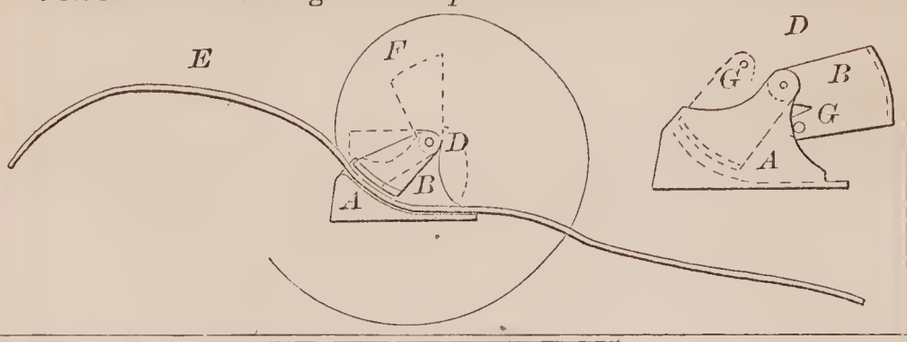
73228—A. N. Breneman—*Shoe Holder.*



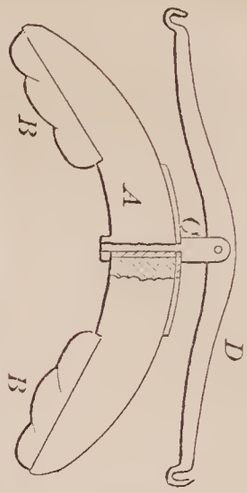
73229—G. W. Brown—*Spirometer.*



73230—H. W. Burgess—*Strap Holder.*



73236—P. K. Curll—*Cart Harness.*



73234—G. W. Compton—*Pole Attachment.*

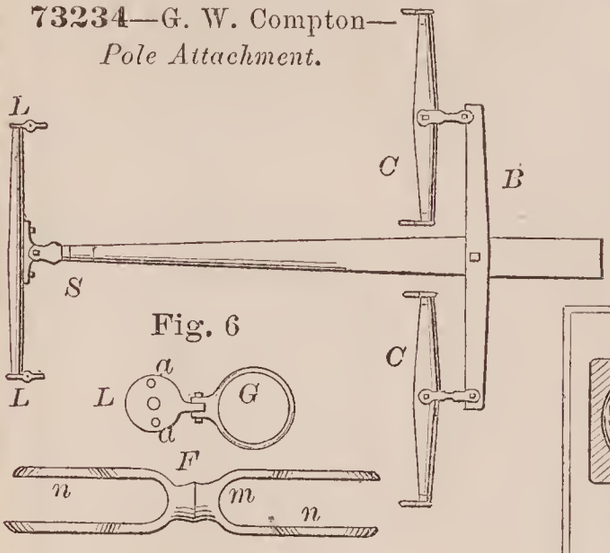
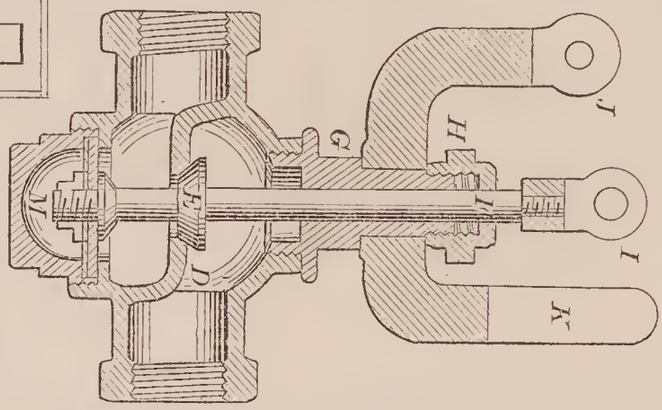
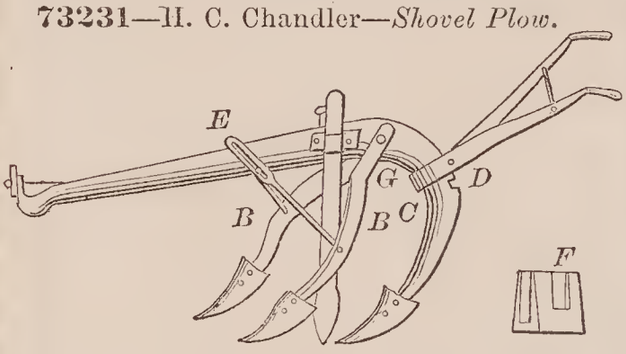


Fig. 6

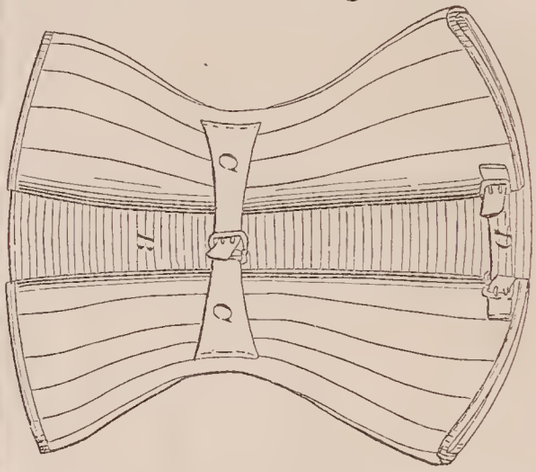
73232—G. E. Chenoweth—*Feed Water Valve.*



73231—H. C. Chandler—*Shovel Plow.*



73235—C. Z. Cummings—*Corset.*



73233—C. J. Clifford—*For Determining Deviation of Locomotive Crank Pins.*

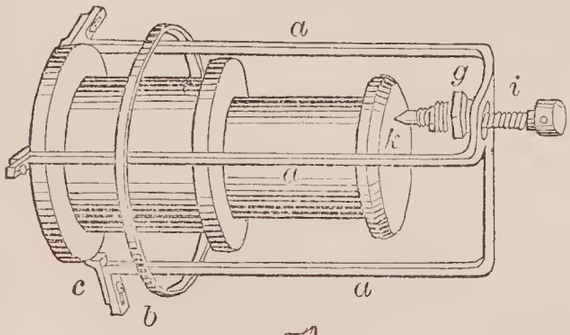
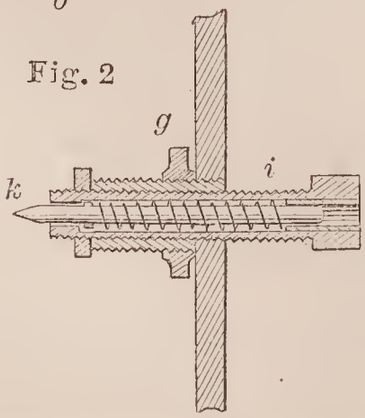
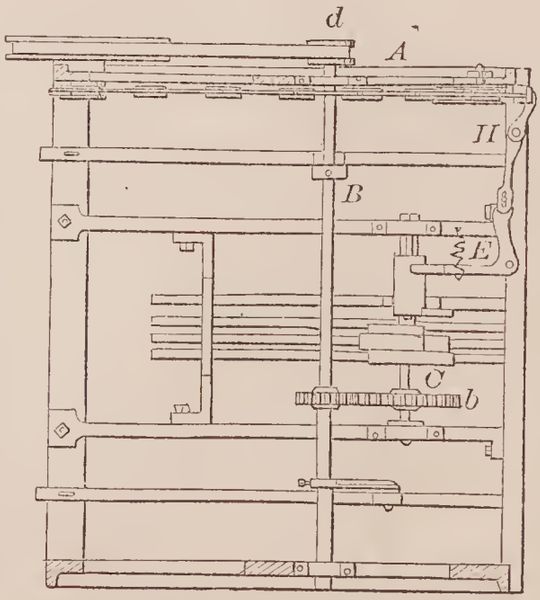


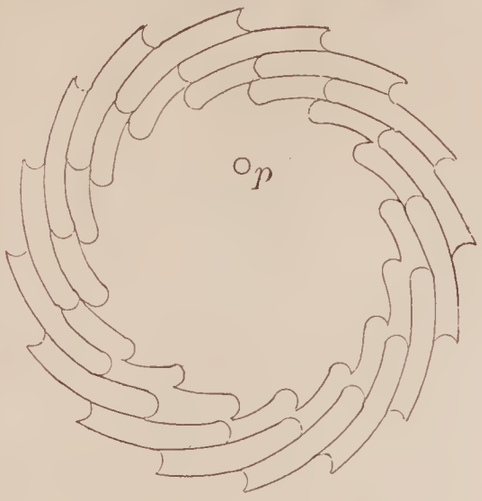
Fig. 2



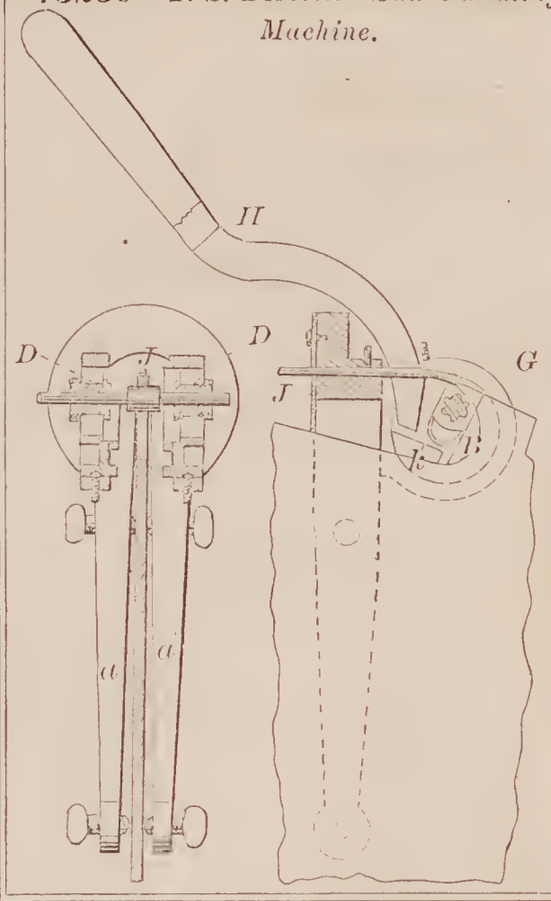
73237—J. Deakin—*Loom.*



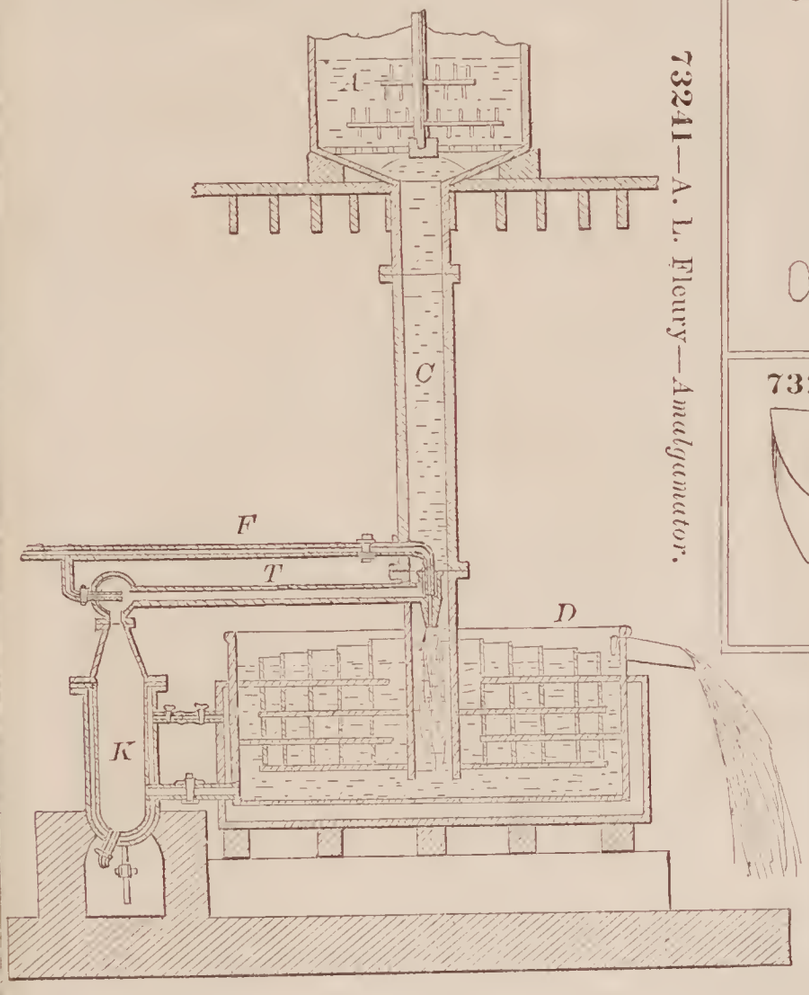
73238—H. Disston—*Circular Saw.*



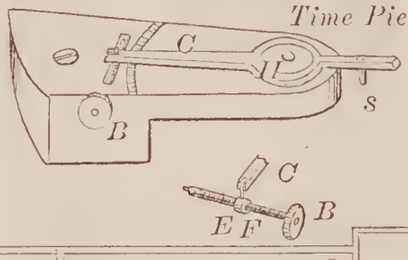
73239—T. S. Disston—*Saw Gumming Machine.*



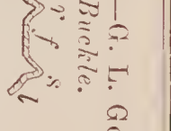
73241—A. L. Fleury—*Amalgamator.*



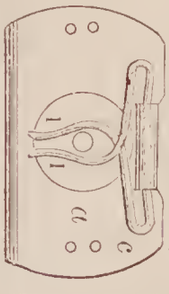
73240—S. F. Estell—*Regulator for Time Pieces.*



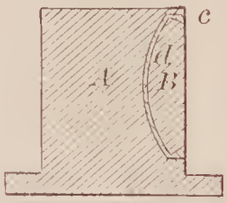
73242—G. L. Gerard—*Buckle.*



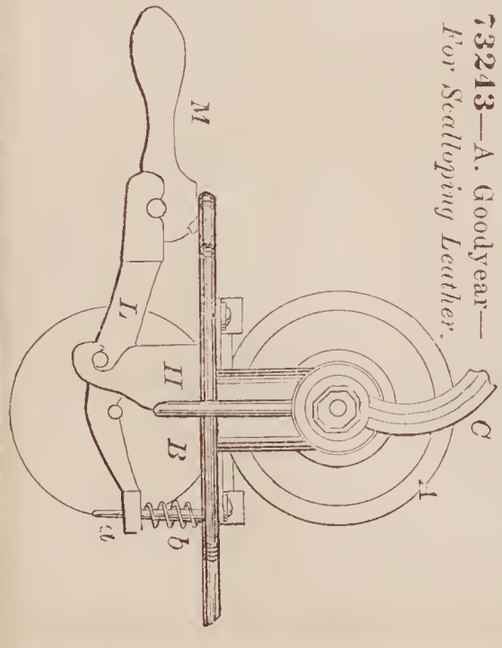
73244—R. A. Goodyear—*Needle Fastening.*



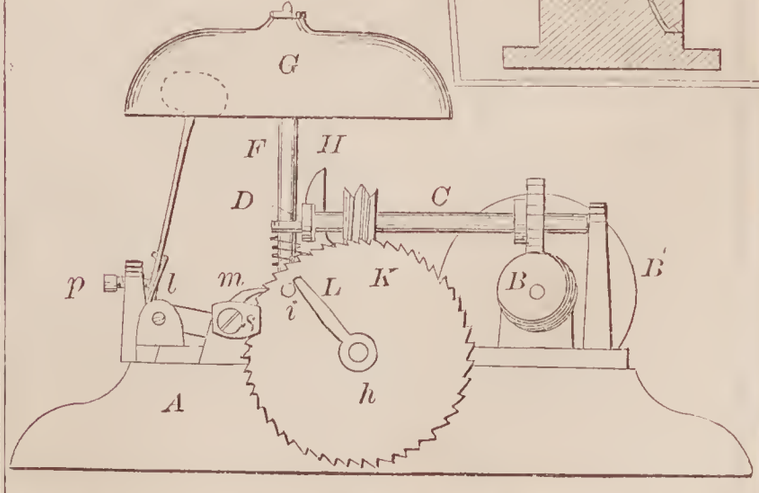
73245—J. Harden—*Anti-Friction Bearing*



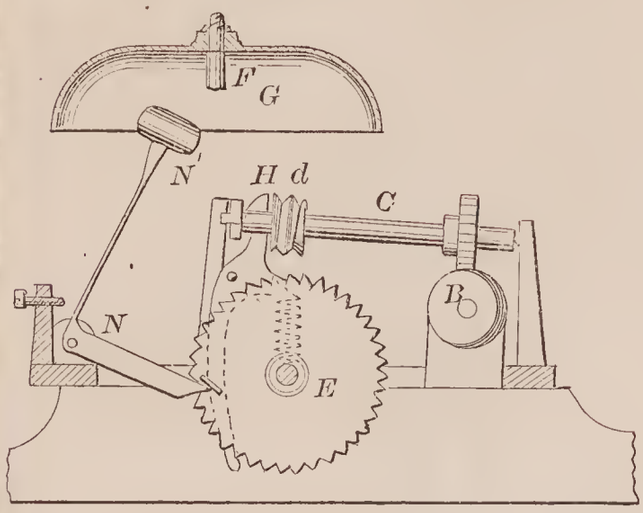
73243—A. Goodyear—*For Scalloping Leather.*



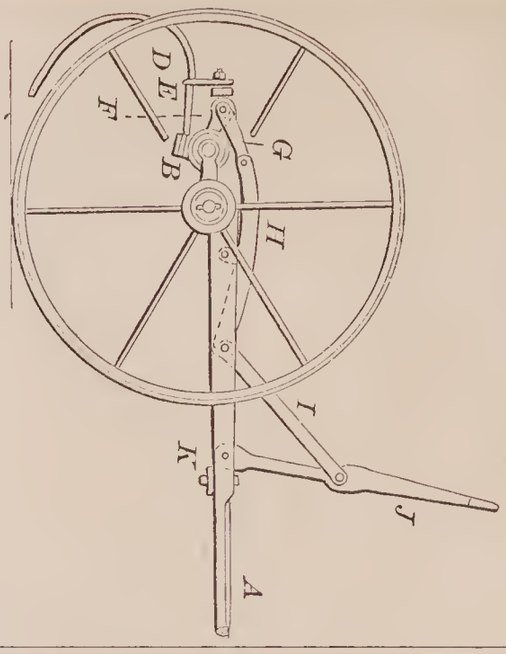
73247—Helton & Redfield—*Alarm for Grist Mills.*



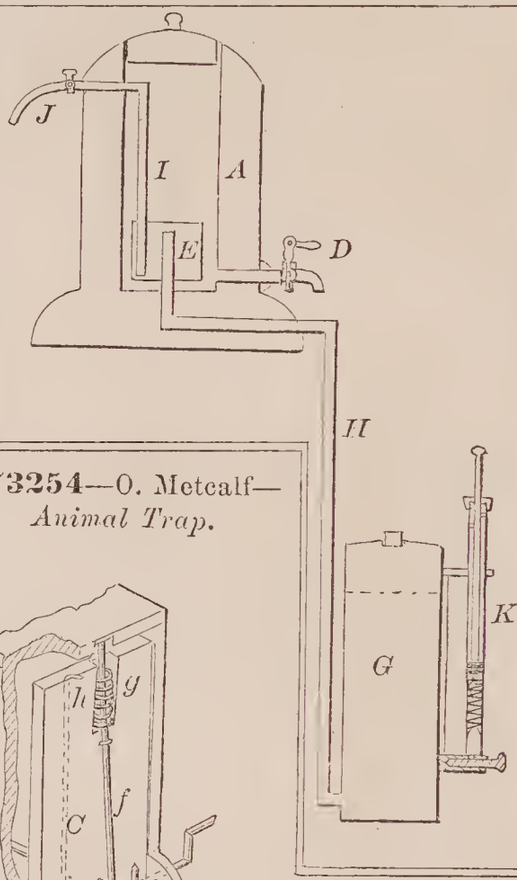
73247—*Continued.*



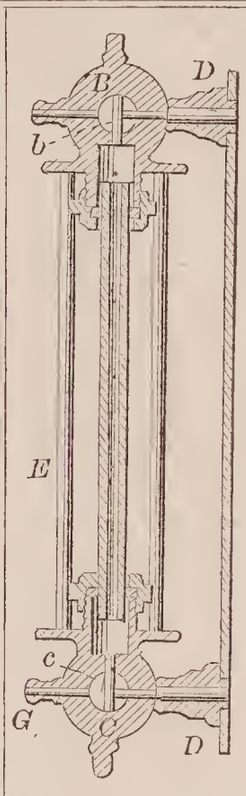
73248—B. F. Horton—*Horse Rake.*



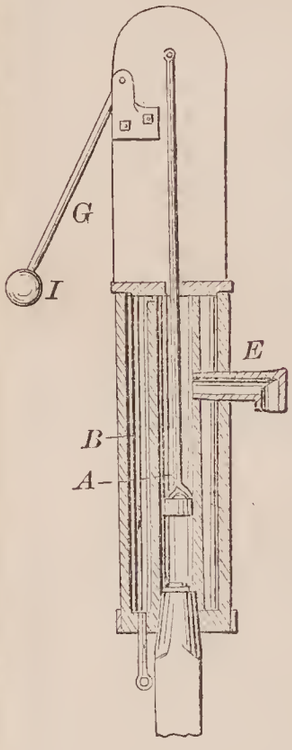
73249—J. S. Hull—*Soda Fountain.*



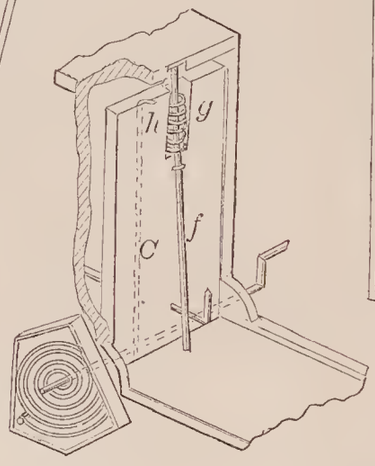
73250—J. S. Hunter—*Steam Generator Water Gauge.*



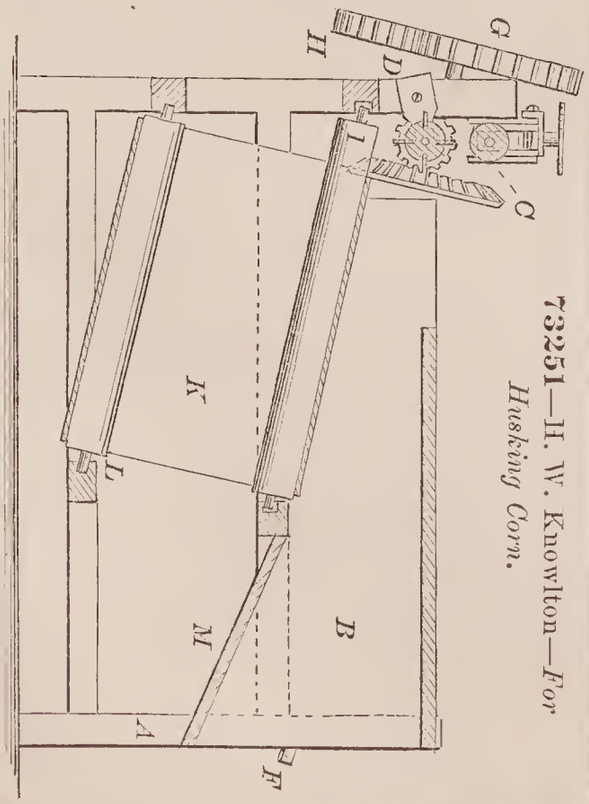
73253—J. McBride—*Pump.*

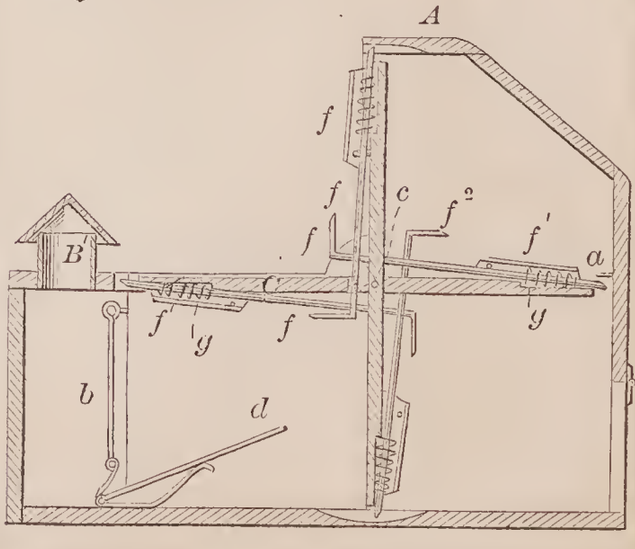


73254—O. Metcalf—*Animal Trap.*

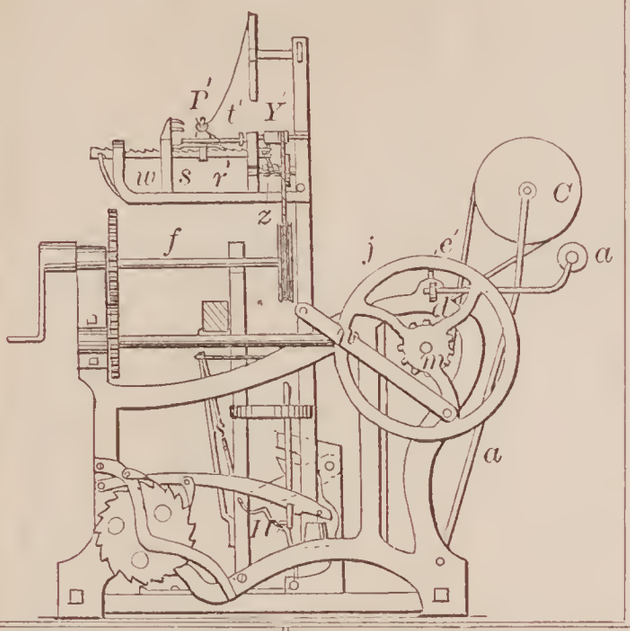


73251—H. W. Knowlton—*Husking Corn.*

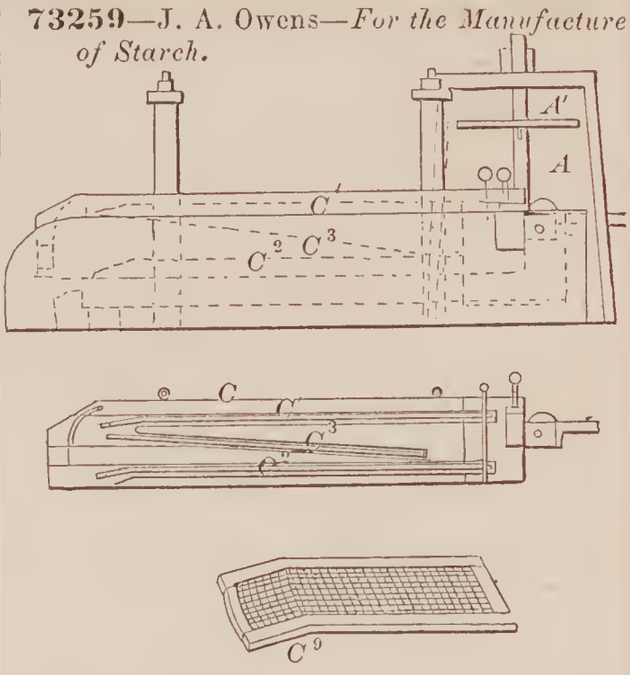




73256—Nute & Hathorn—*Hand Loom.*

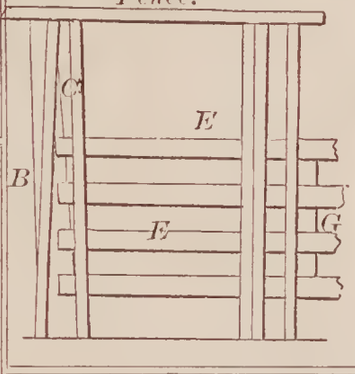


73259—J. A. Owens—*For the Manufacture of Starch.*

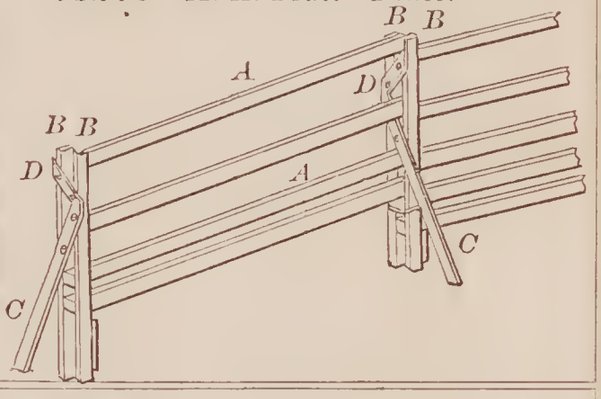


73255—W. A. Morse—*Pen.*

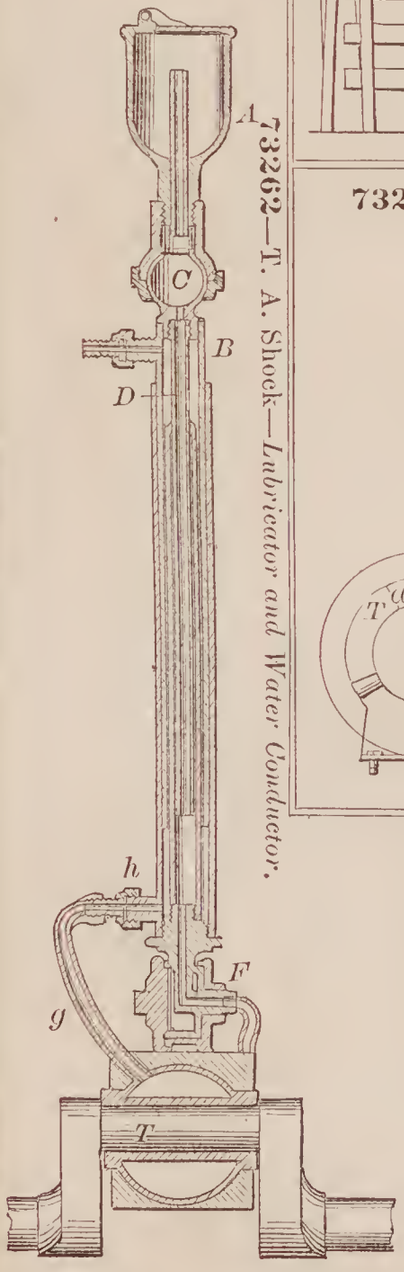
73257—Olds & Clark—*Fence.*



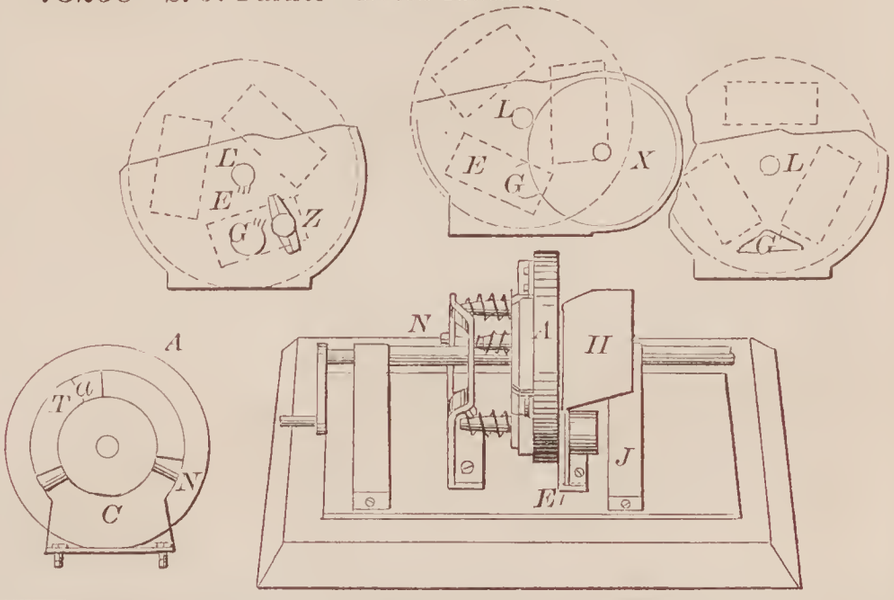
73260—M. A. Pratt—*Fence.*



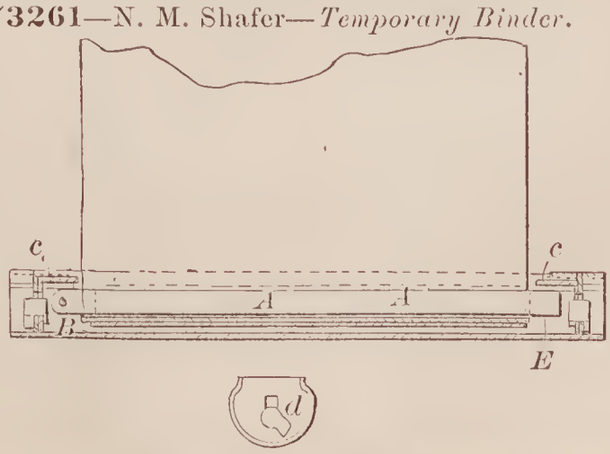
73262—T. A. Shock—*Lubricator and Water Conductor.*



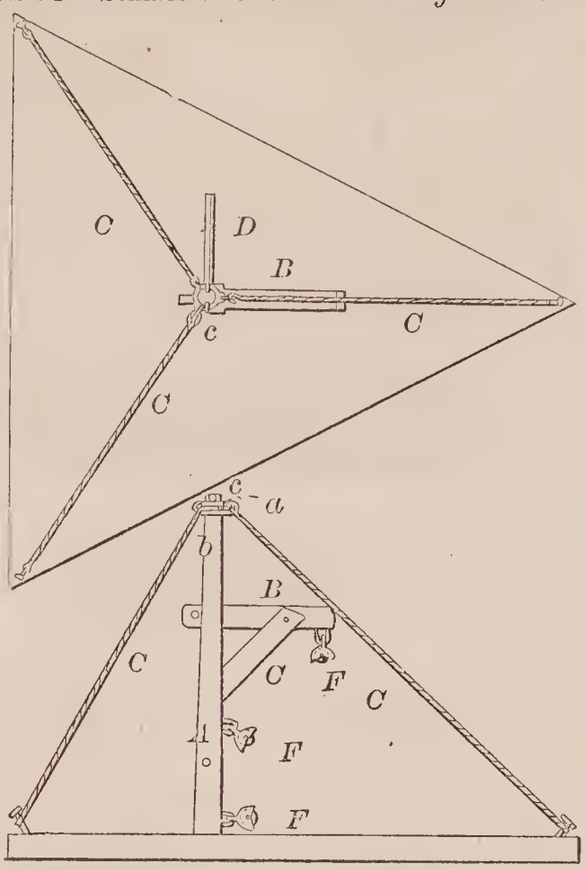
73258—S. J. Parker—*Brick Machine.*



73261—N. M. Shafer—*Temporary Binder.*



73263—Simms & Chambers—*Hay Crane.*



73264—S. T. Skinner—*Plow.*

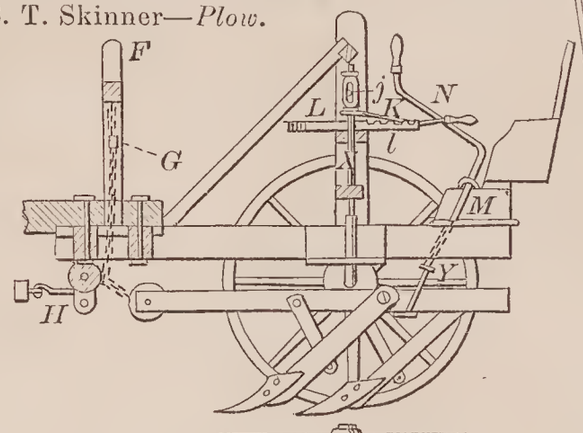
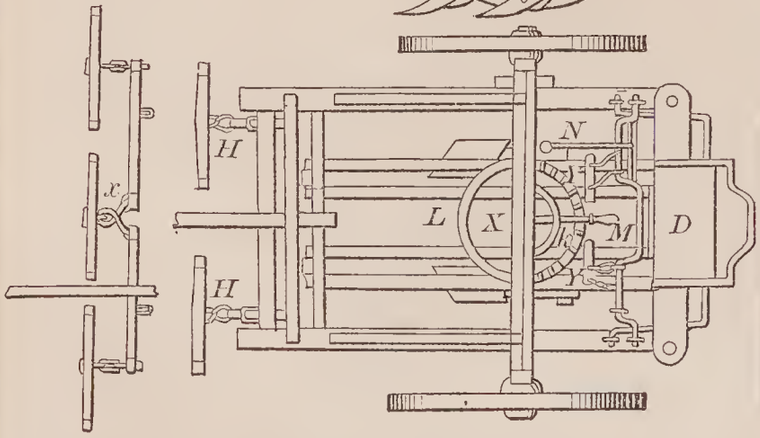
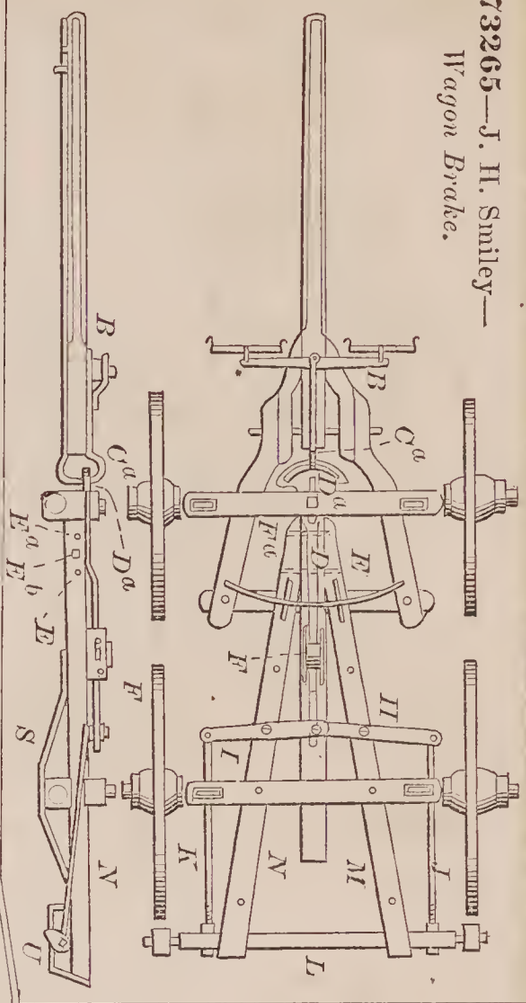


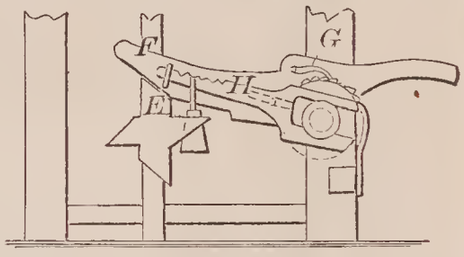
Fig. 3



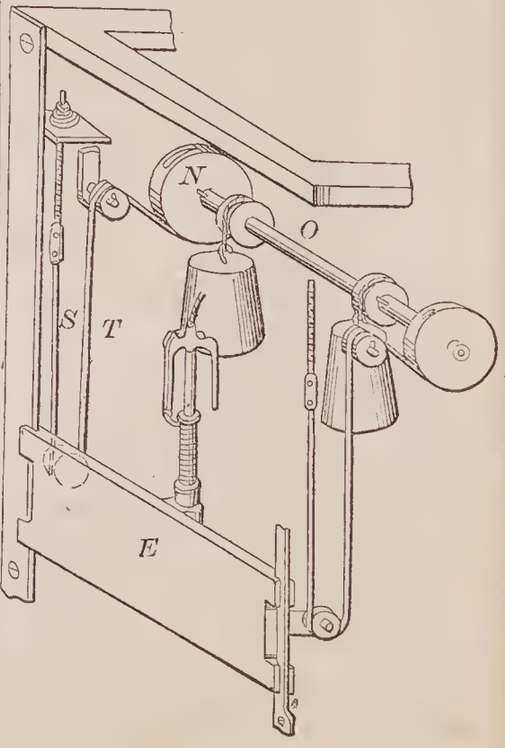
73265—J. H. Smiley—*Wagon Brake.*



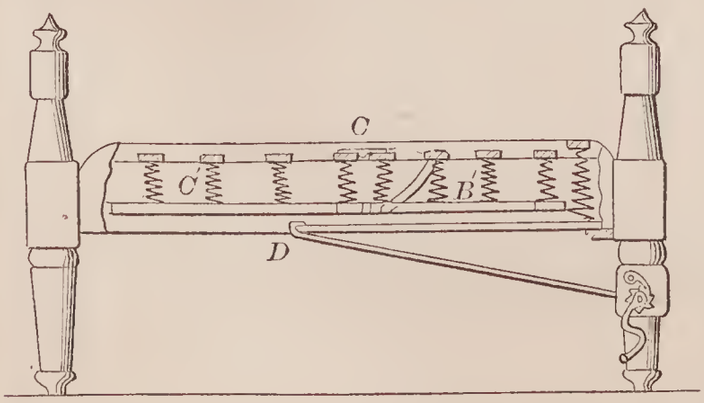
73266—O. Strong—*Hand Loom.*



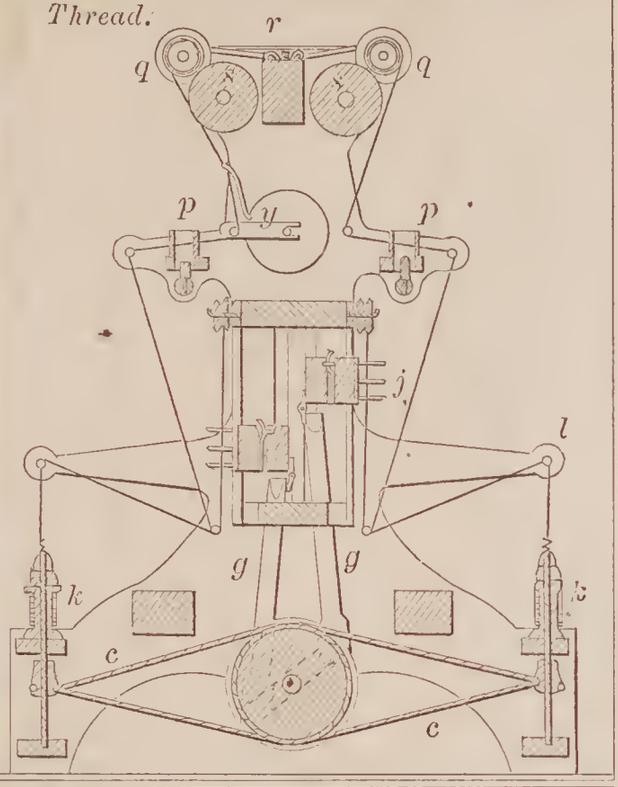
73267—W. H. Thompson—*Roving Frame.*



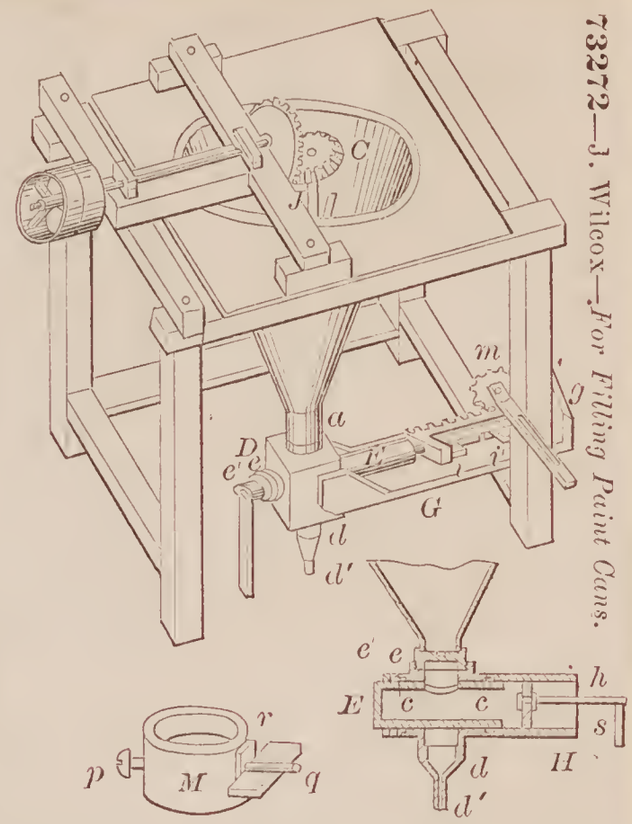
73268—J. D. Tifft—*Spring Bed Bottom.*



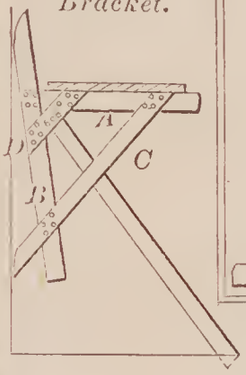
73269—W. W. Trapp—*For Polishing Thread.*



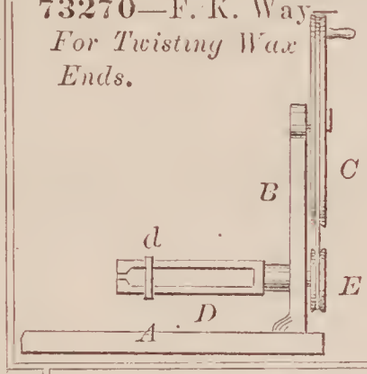
73272—J. Wilcox—*For Filling Paint Cans.*



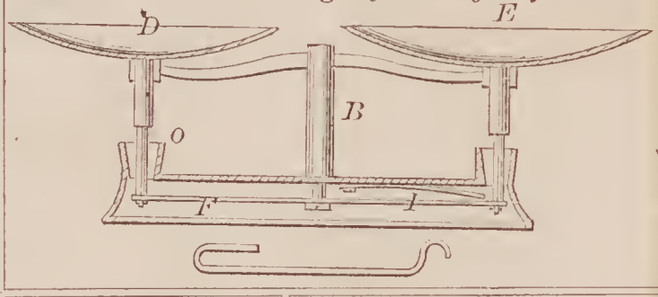
73274—J. S. Wilson—*Bracket.*

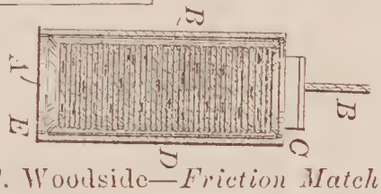


73270—F. K. Way—*For Twisting Wax Ends.*



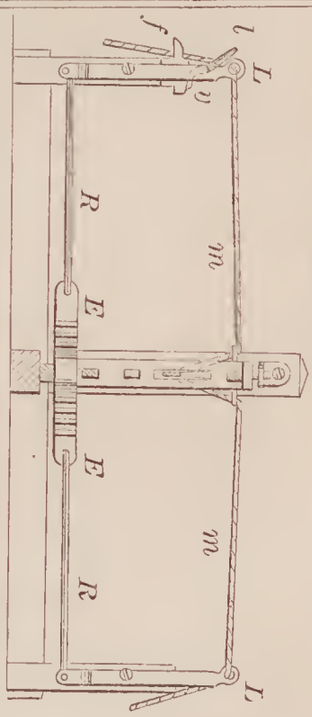
73273—J. D. Willoughby—*Weighing Scales.*



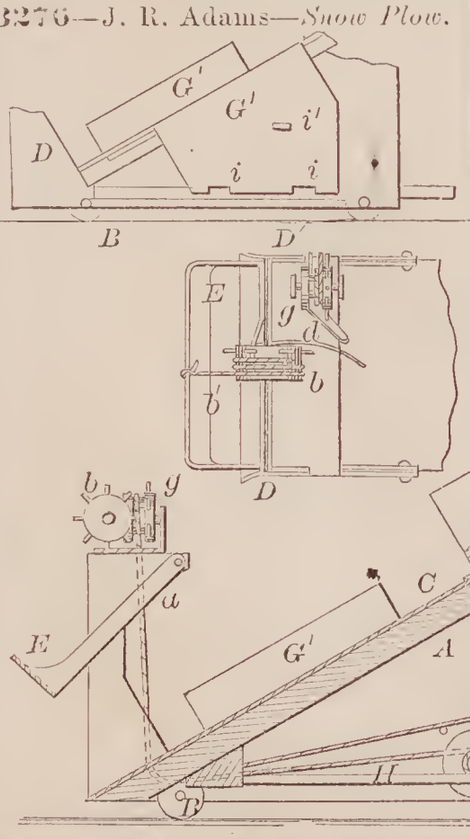


73275—B. F. Woodside—*Friction Matches.*

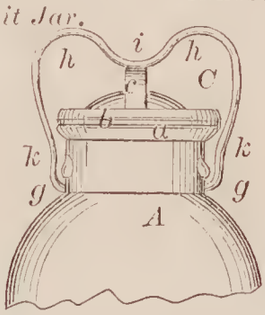
73277—R. Adams—*Gate.*

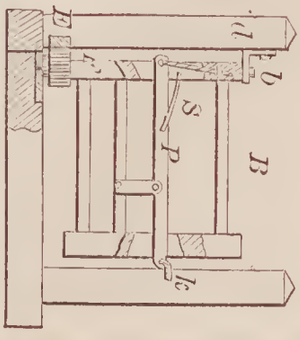


73276—J. R. Adams—*Snow Plow.*

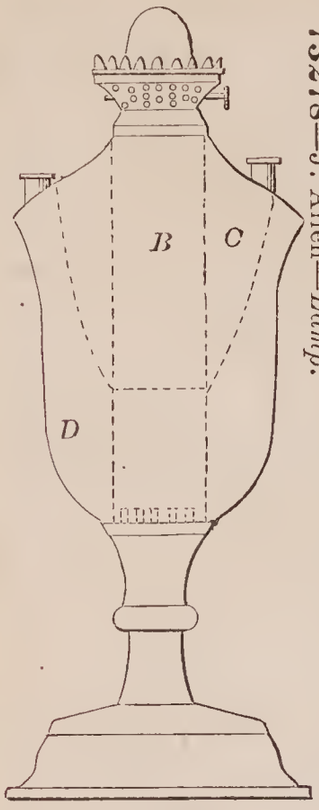


73271—E. B. Whitmore—*Fruit Jar.*



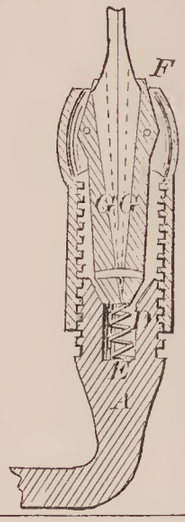


73278—J. Allen—*Lamp.*

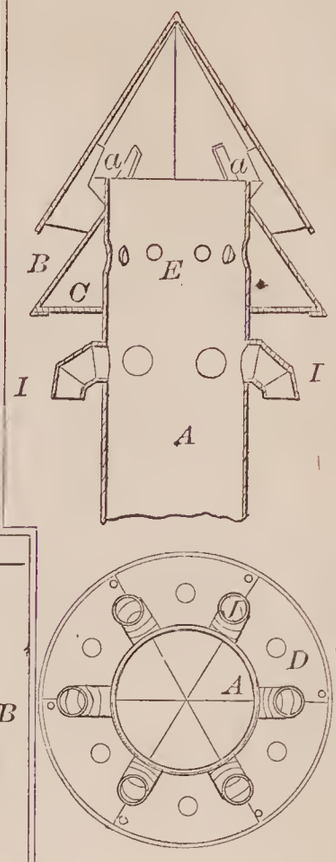


73286—W. W. Beebee—*Harness Attachment.*

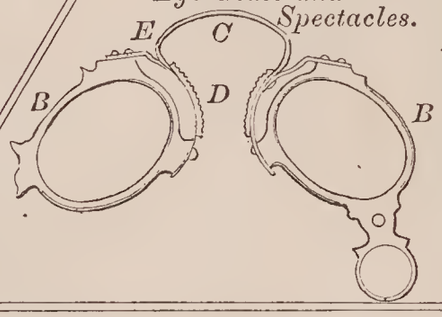
73279—C. H. Amidon—*Bit Stock.*



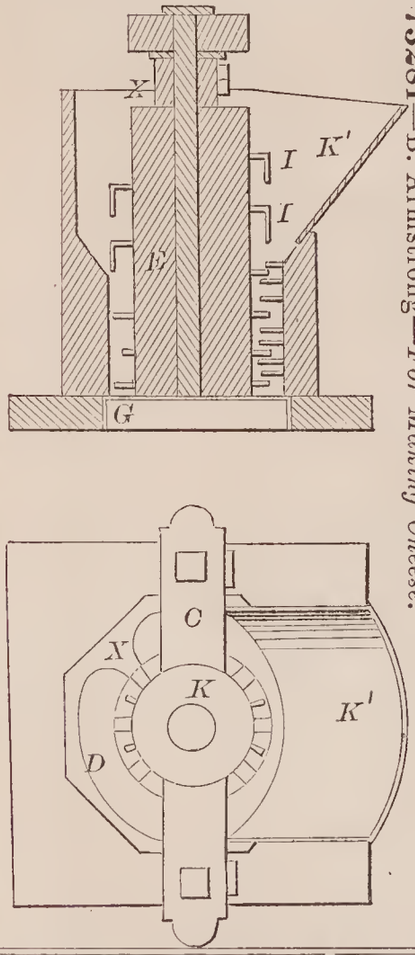
73280—J. W. C. Anderson—*Ventilator and Chimney Cowl.*



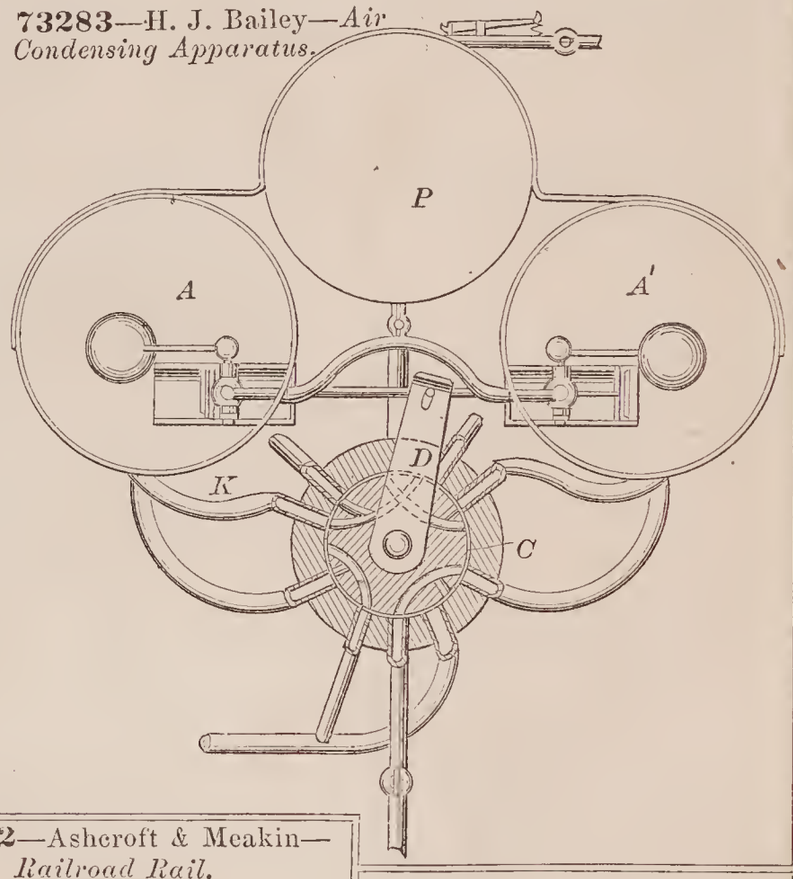
73285—J. J. Bausch—*Eye Glass and Spectacles.*



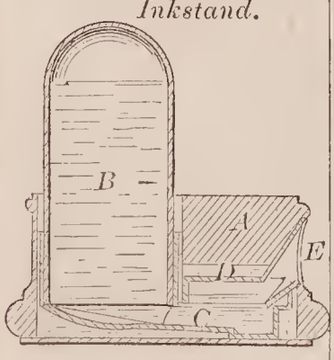
73281—B. Armstrong—*For Making Cheese.*



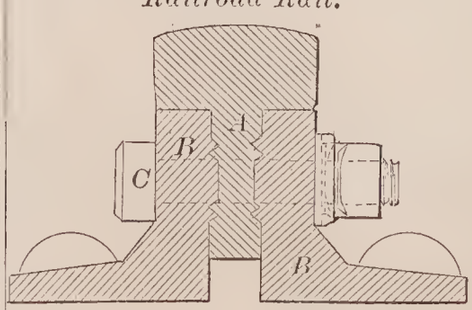
73283—H. J. Bailey—*Air Condensing Apparatus.*



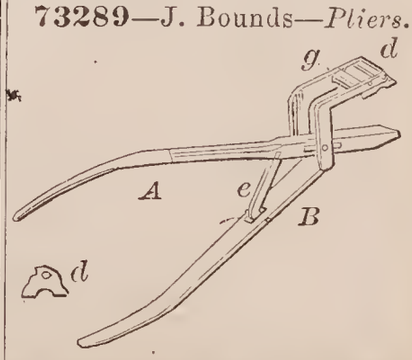
73284—N. G. Bartlett—*Inkstand.*



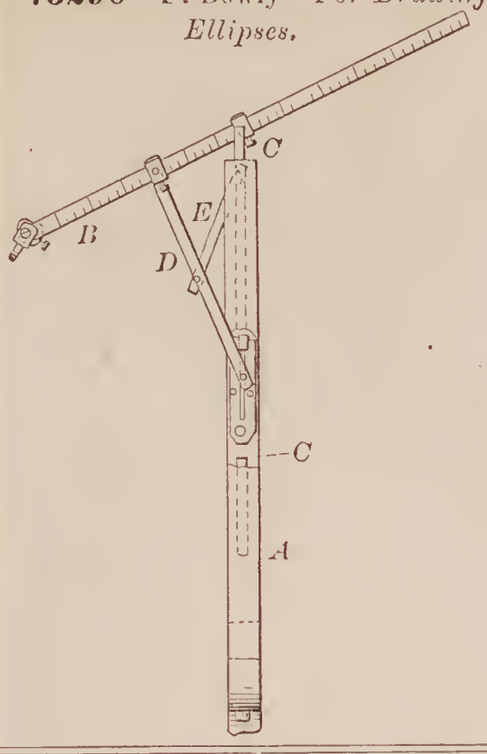
73282—Ashcroft & Meakin—*Railroad Rail.*



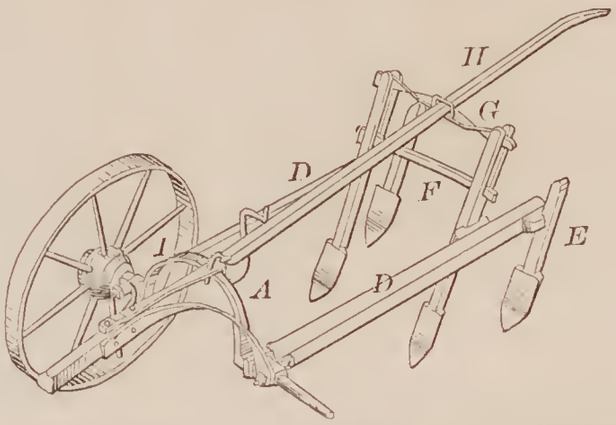
73289—J. Bounds—*Pliers.*



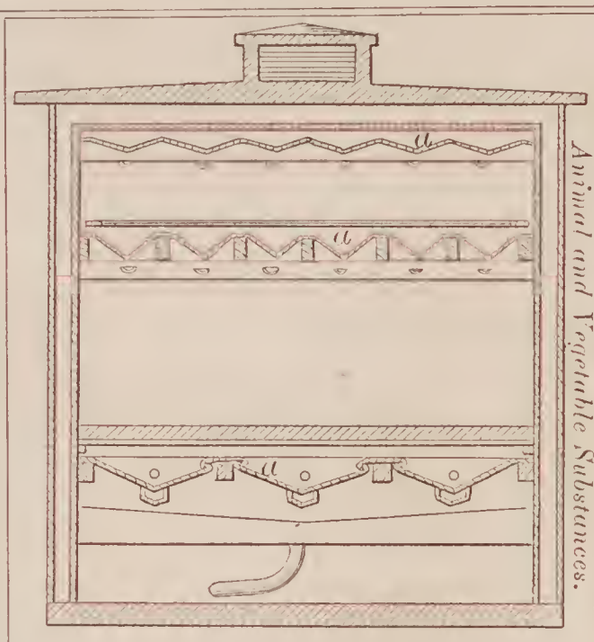
73290—F. Bowly—*For Drawing Ellipses.*



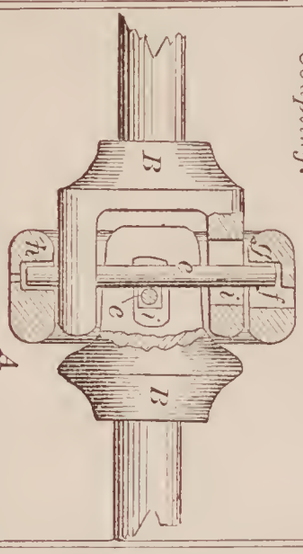
73291—J. C. Boyd—*Cultivator.*



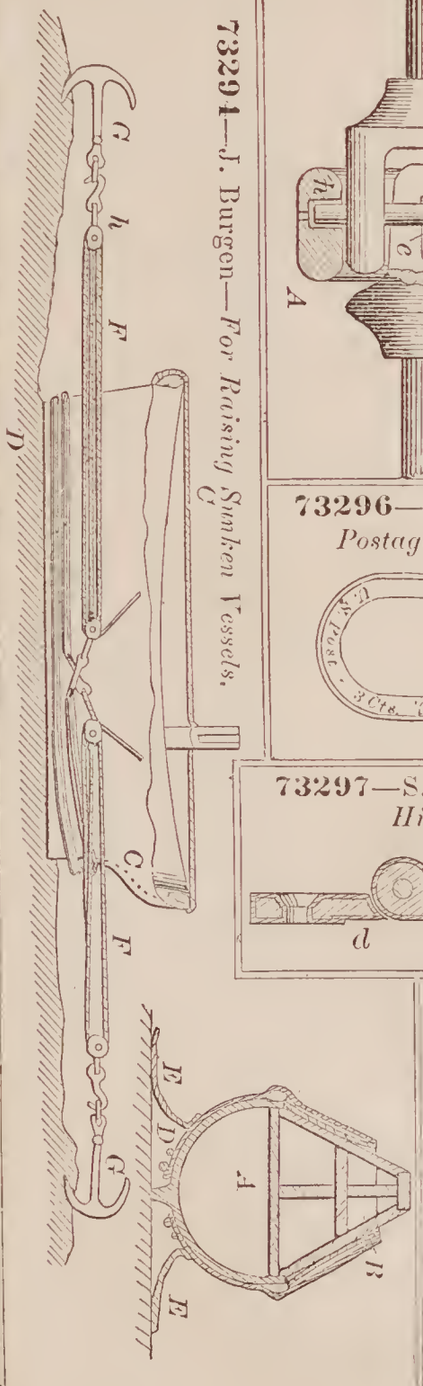
73292—E. D. Brainard—*For Preserving Animal and Vegetable Substances.*



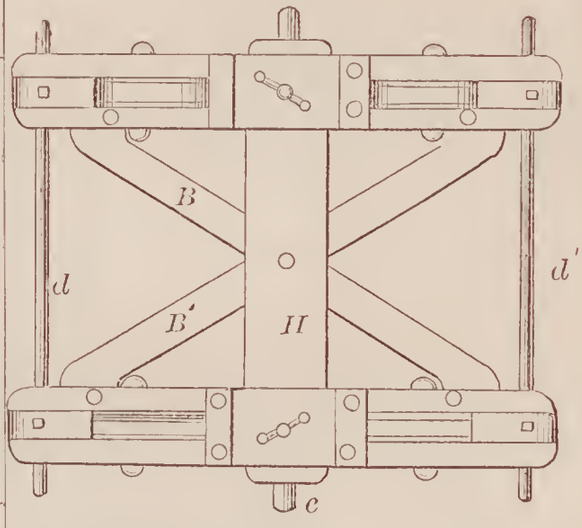
73293—J. Brayley—*Shaft Coupling.*



73294—J. Burgen—*For Raising Sunken Vessels.*

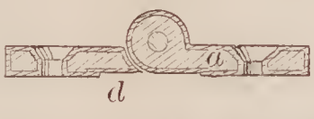


73295—H. T. Carter—*Car Truck.*

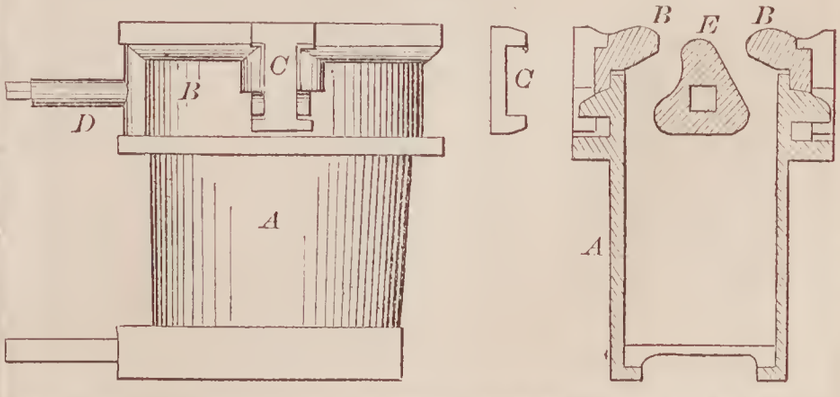


73296—S. Carusi—*Postage Stamp.*

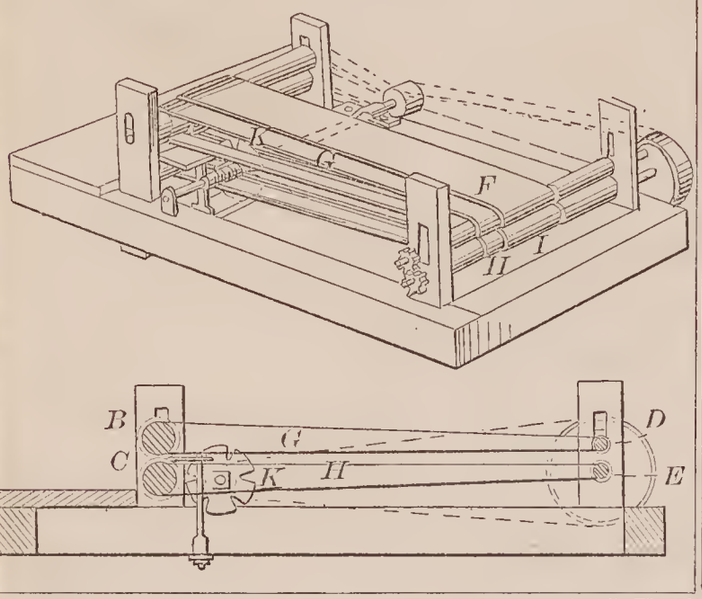
73297—S. A. Chapman—*Hinge.*



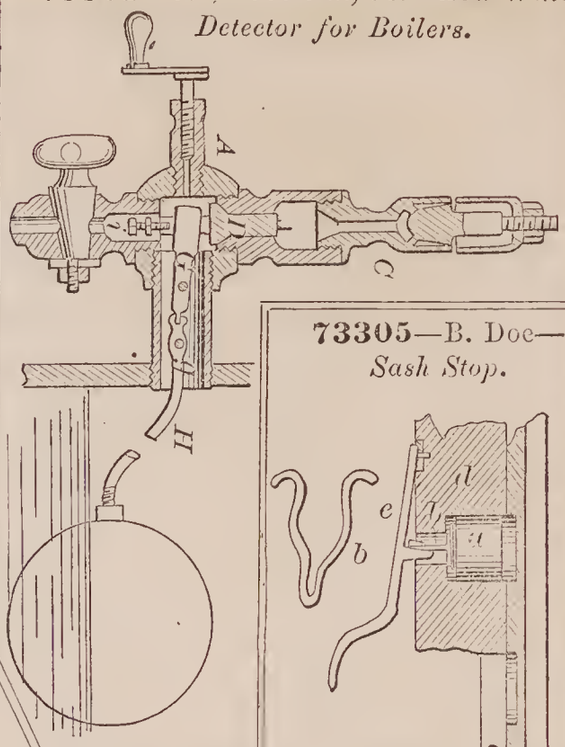
73299—R. W. Clark—*Tuyere Iron.*



73299—Collins & Nixon—*Seaming and Rag Cutting Machine.*

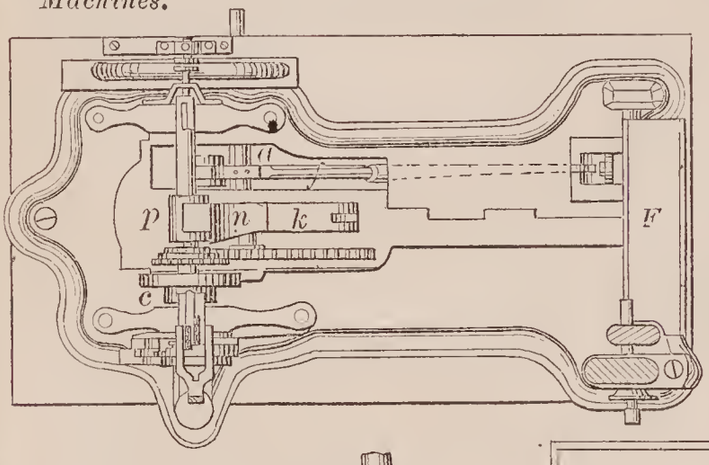


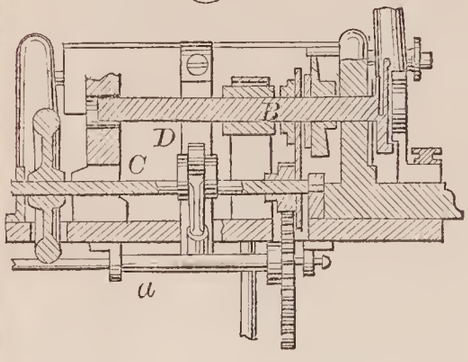
73301—C. F. Cosfeldt, Jr.—*Low Water Detector for Boilers.*



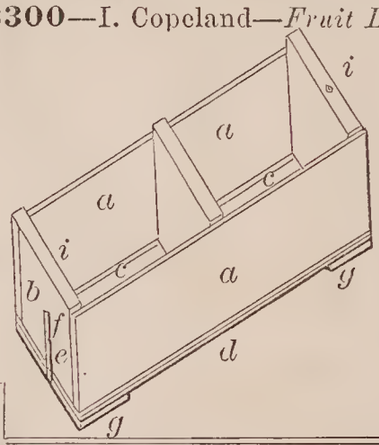
73305—B. Doe—*Sash Stop.*

73303—G. Cuppers—*For Operating Sewing Machines.*

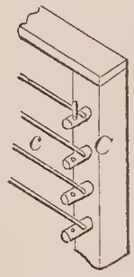




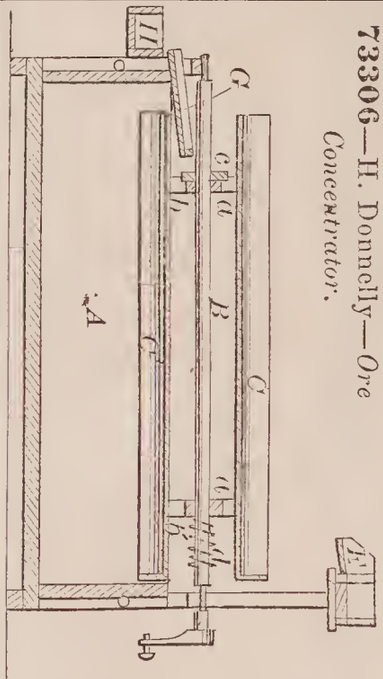
73300—I. Copeland—*Fruit Box.*

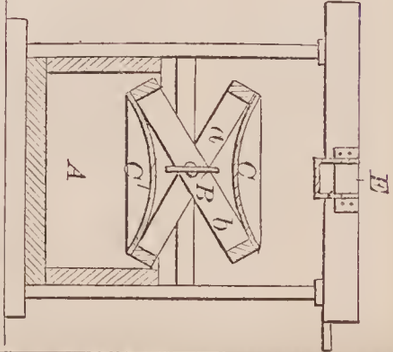


73302—F. H. Crandall—*Fo[r] Straining Wire Fences.*

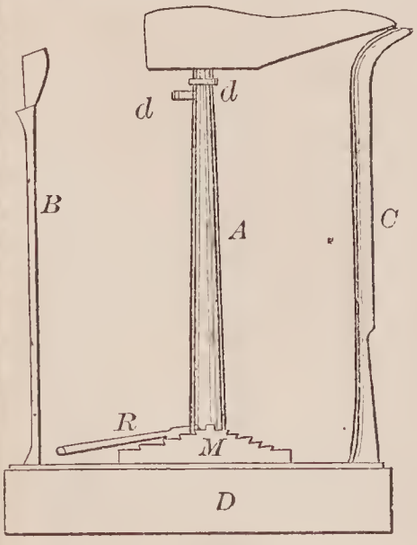


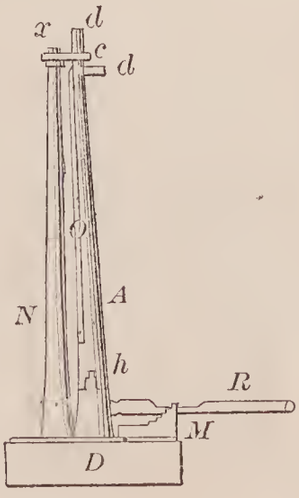
73306—H. Donnelly—*Ore Concentrator.*



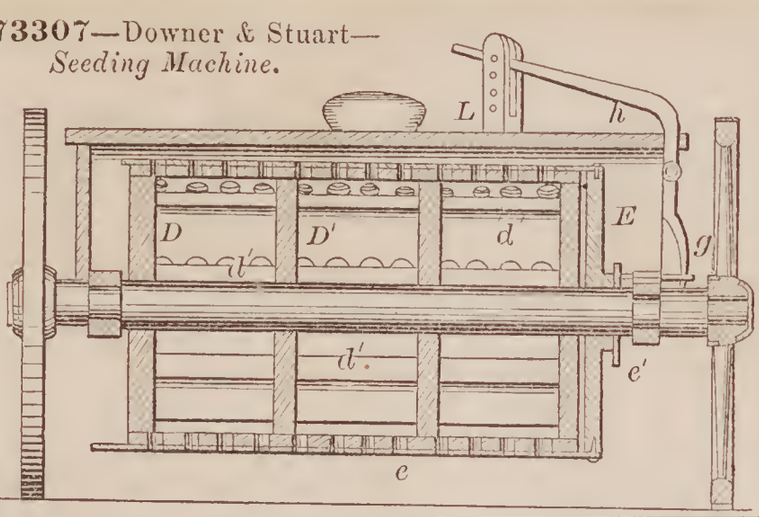


73304—H. T. Dillon—*For Holding Boots and Shoes.*

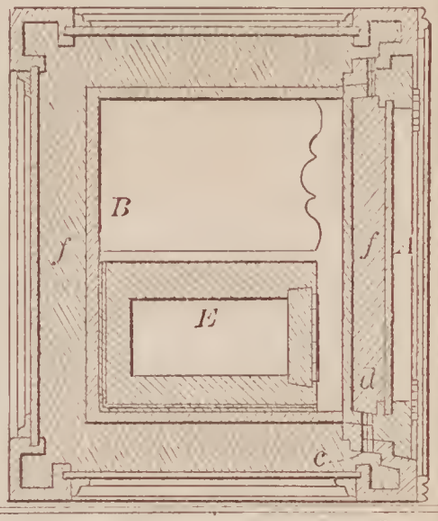




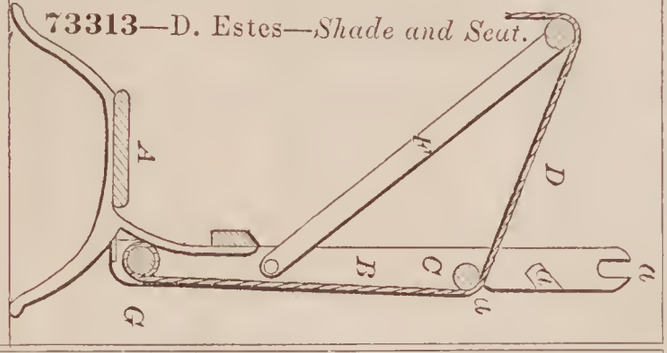
73307—Downer & Stuart—*Seeding Machine.*



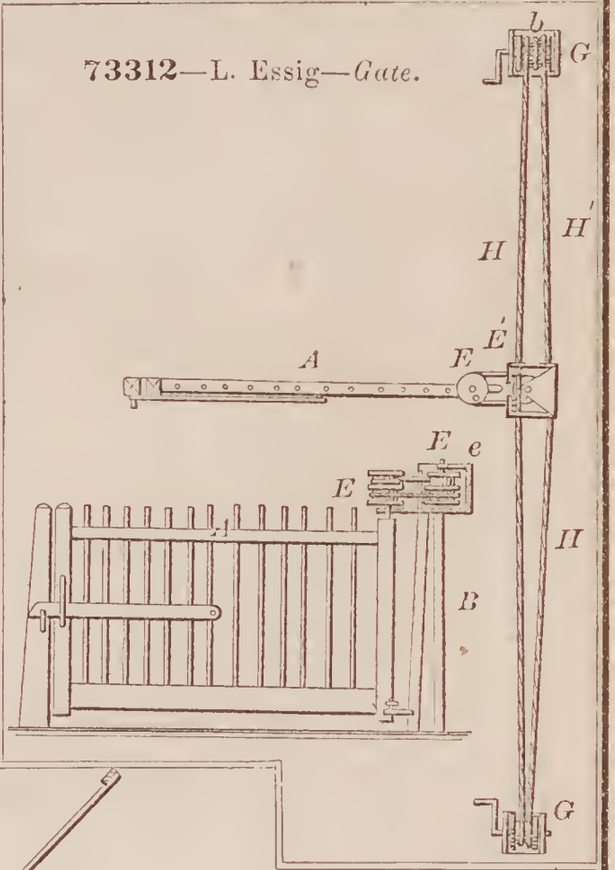
73309—Draper & Glover—*Fireproof Safe.*



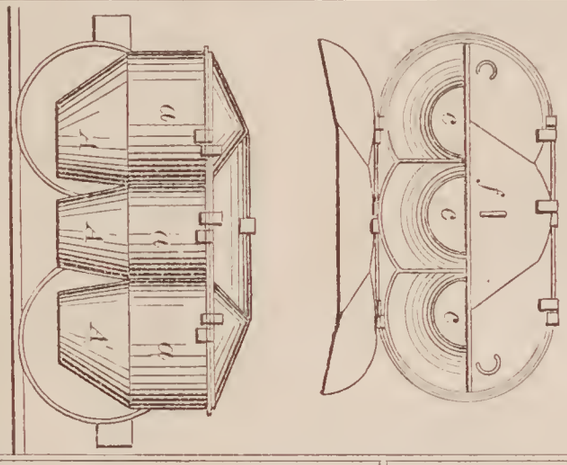
73313—D. Estes—*Shade and Seat.*



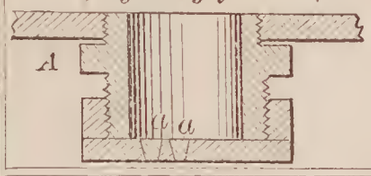
73312—L. Essig—*Gate.*



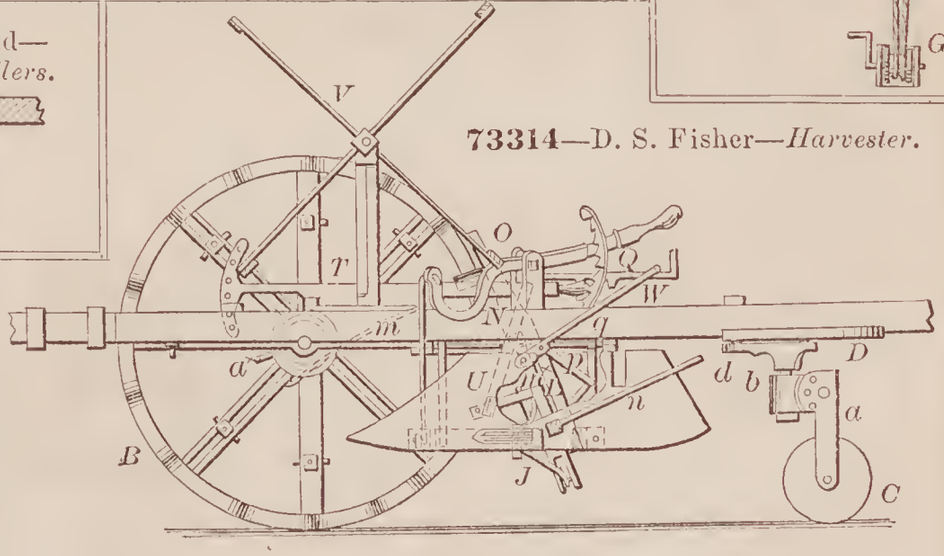
73308—S. W. Downey—*Freight Car.*



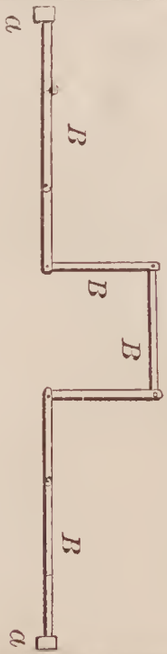
73311—T. G. Eiswald—*Safety Plug for Boilers.*

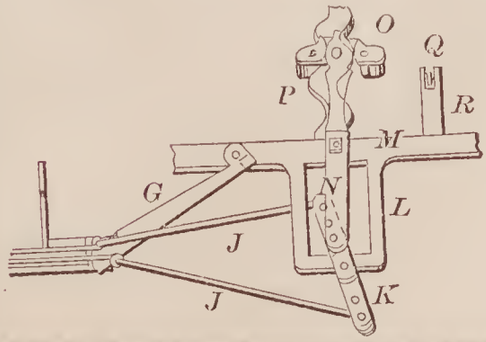


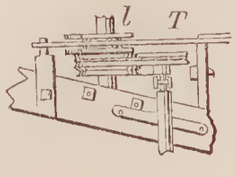
73314—D. S. Fisher—*Harvester.*



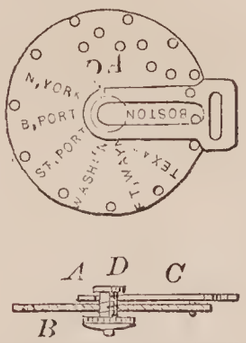
73310—A. L. Dunbar—*Carpet Stretcher.*



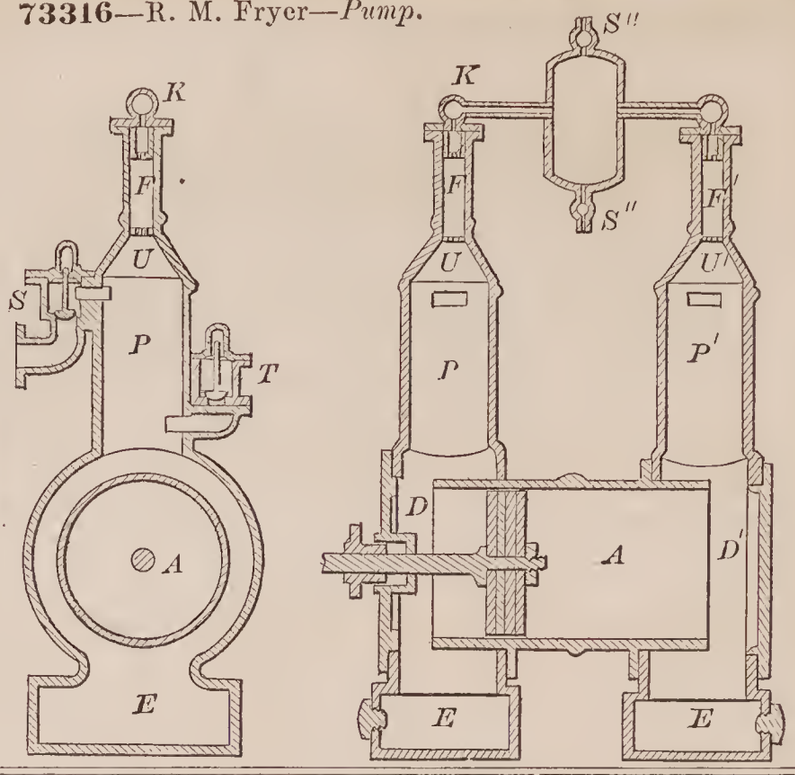




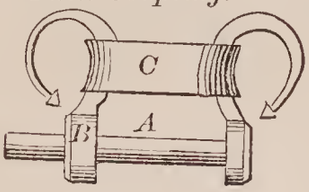
73315—E. Flather—*Baggage Check.*



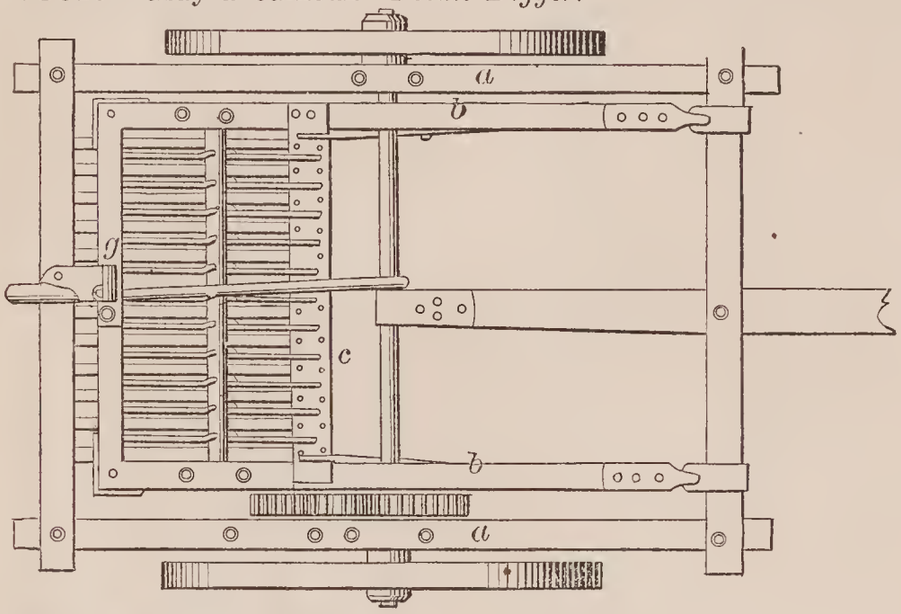
73316—R. M. Fryer—*Pump.*



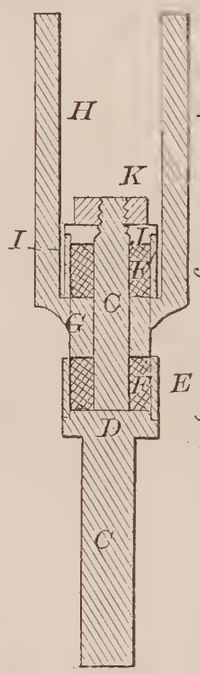
73317—W. W. Goff—*Thill Coupling.*



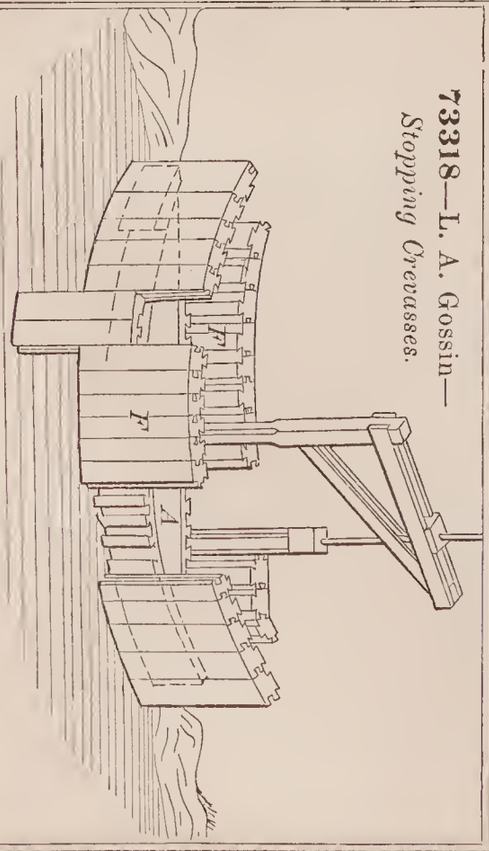
73319—Gray & Calhoun—*Potato Digger.*



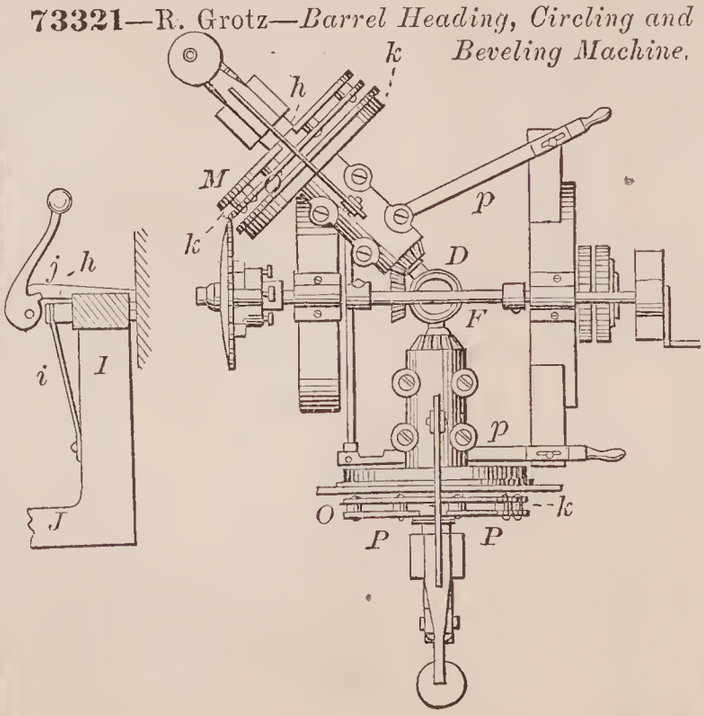
73320—A. P. Green—*Elastic Coupling for Seeding Machines, &c*



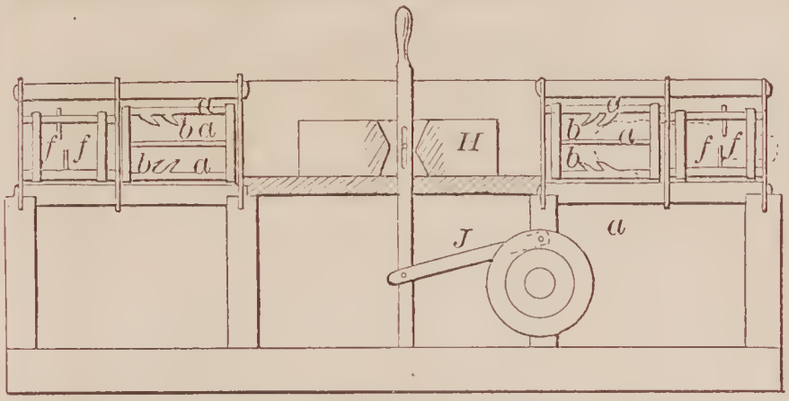
73318—L. A. Gossin—*Stopping Crevasses.*



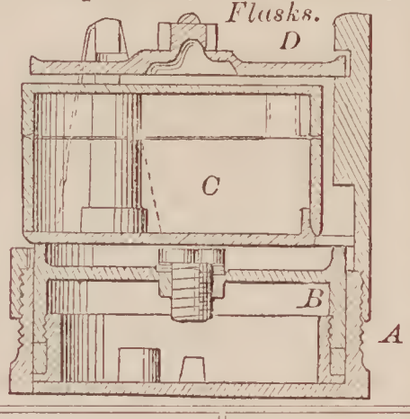
73321—R. Grotz—*Barrel Heading, Circling and Beveling Machine.*



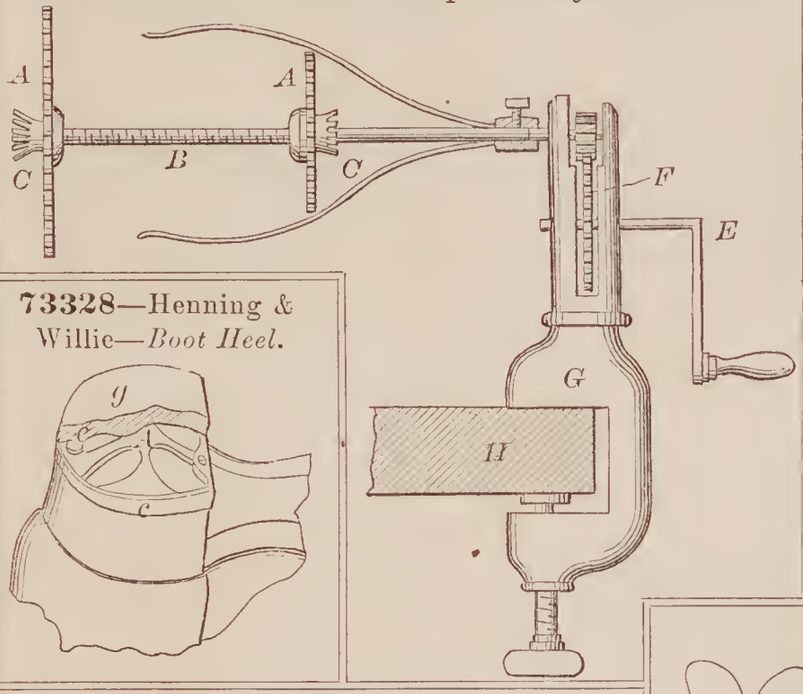
73323—J. R. Hamilton—*Corn Sheller.*



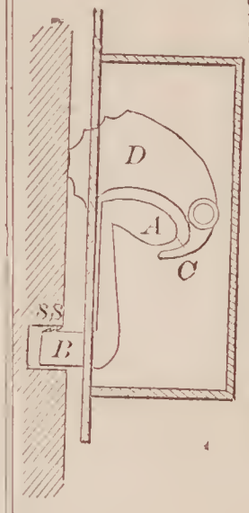
73326—G. E. Hayes—*Steam Compressor for Vulcanizing Flasks.*



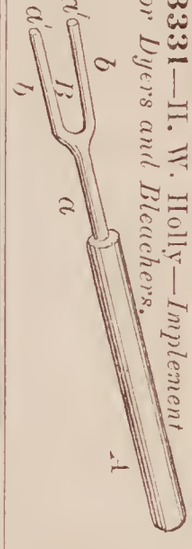
73324—J. R. Hamilton—*Lamp Chimney Cleaner.*



73325—J. W. Hansel—*Sash Fastener.*

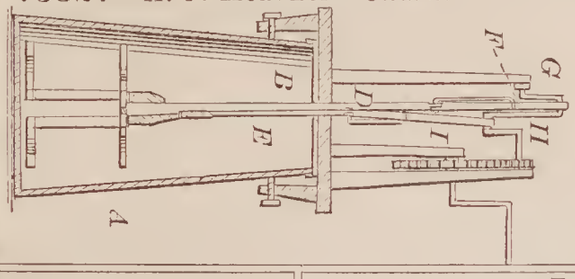


73331—H. W. Holly—*Implement for Dyers and Bleachers.*

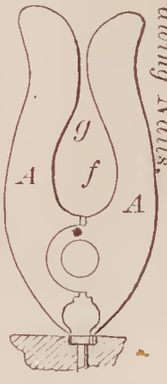


73328—Henning & Willie—*Boot Heel.*

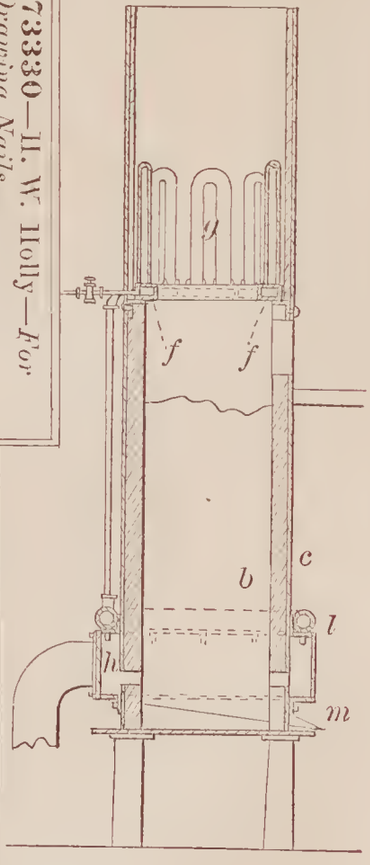
73327—A. J. Heavner—*Churn.*



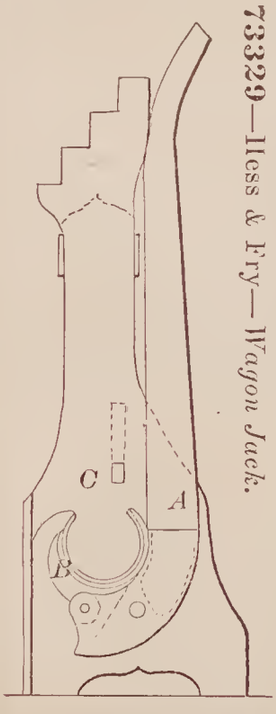
73330—H. W. Holly—*For Drawing Nails.*



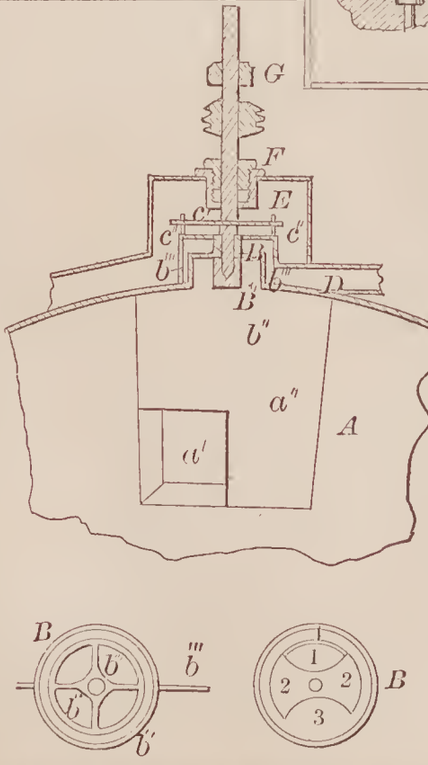
73333—J. Howarth—*Cupola Furnace.*



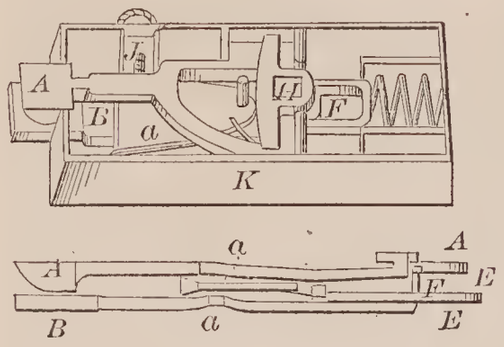
73329—Hess & Fry—*Wagon Jack.*



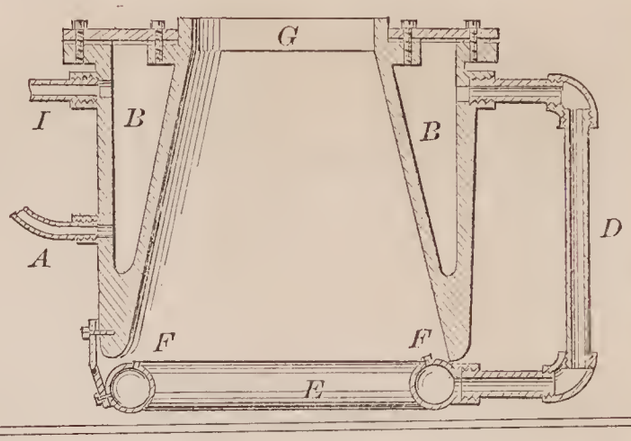
73332—T. C. Hopper—*Dry Gas Meter.*



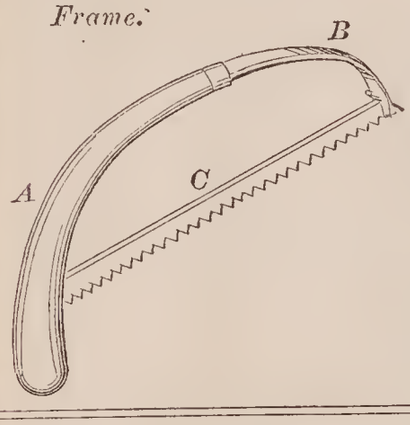
73334—W. L. Imlay—*Locking Knob Latch.*



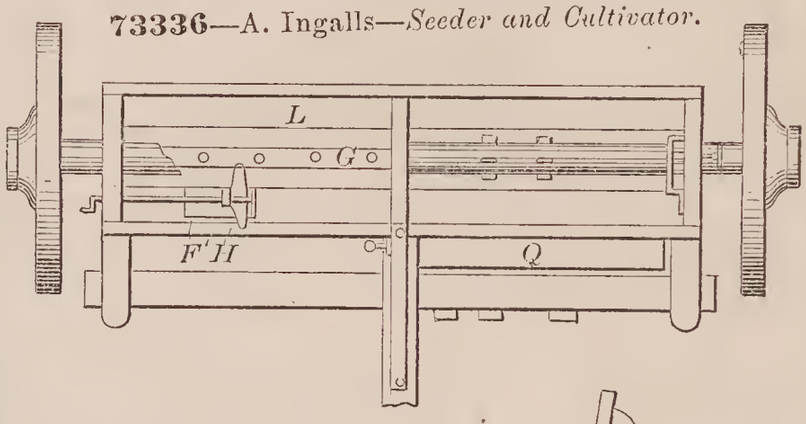
73335—W. L. Imlay—*Hydro Carbon Burner.*



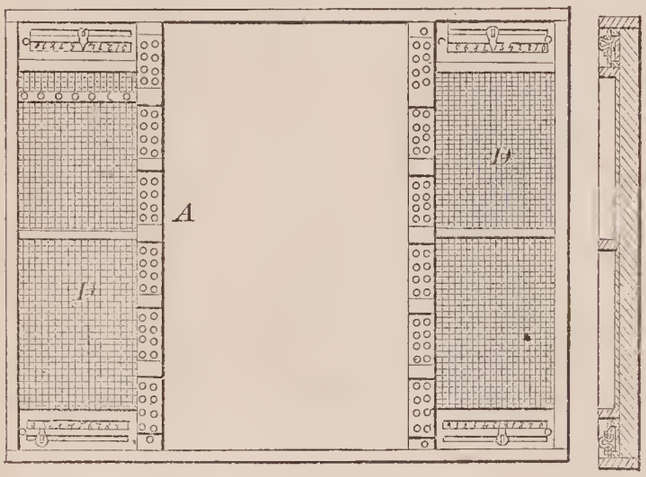
73341—M. J. Jones—*Saw Frame.*

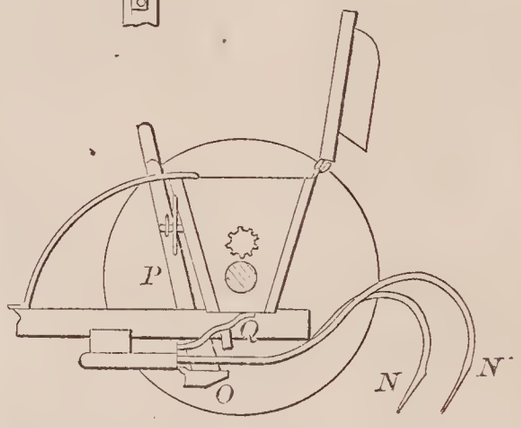


73336—A. Ingalls—*Seeder and Cultivator.*

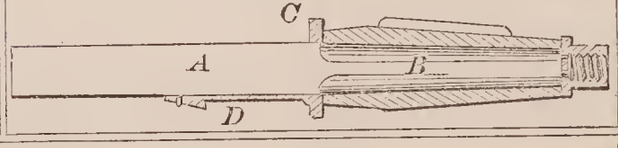


73337—R. S. Jennings—*Cribbage Board.*

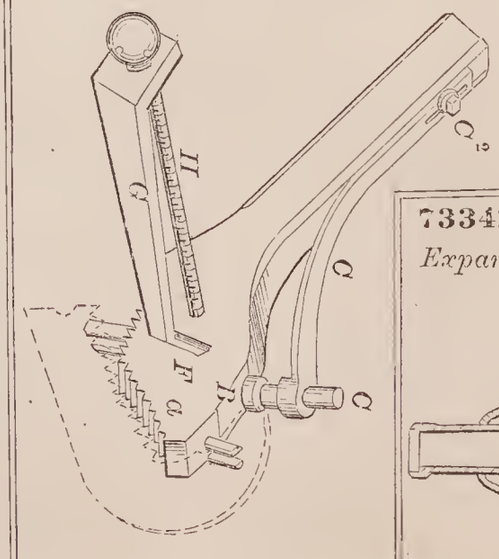




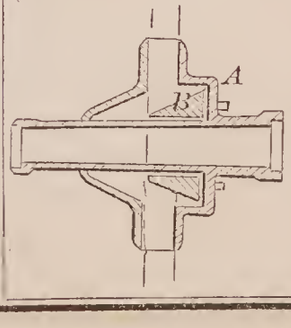
73340—D. Jones—*Wagon Axle.*



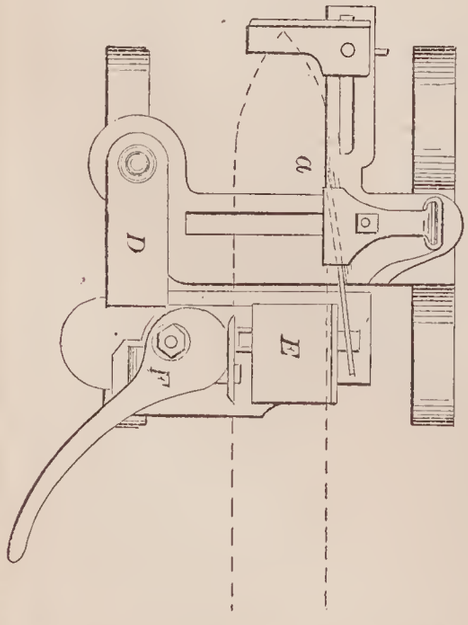
73338—N. Johnson—*Swage for Saw Teeth.*



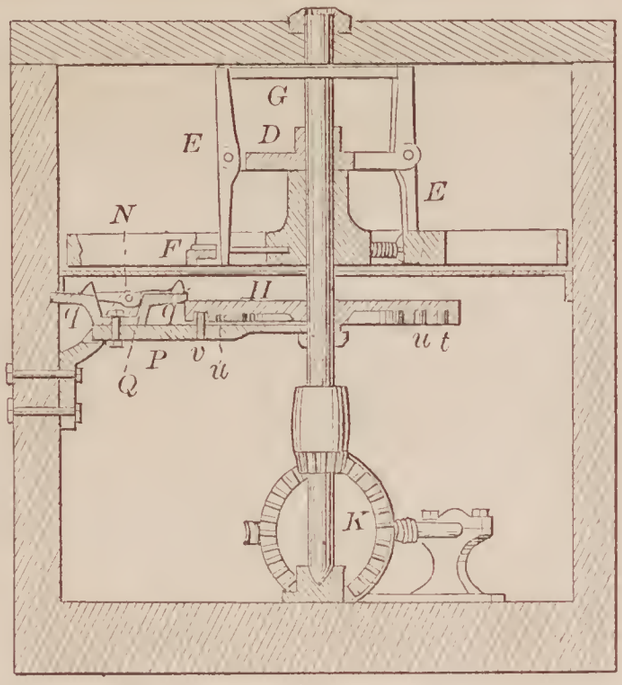
73342—A. I. Judge—*Expanding Wheel Hub.*

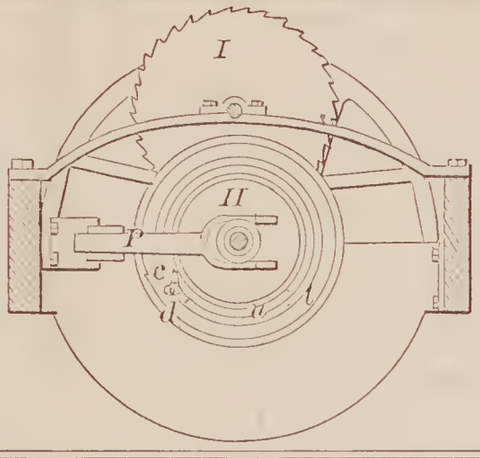


73339—W. W. Johnson—*For Pointing Pickets.*

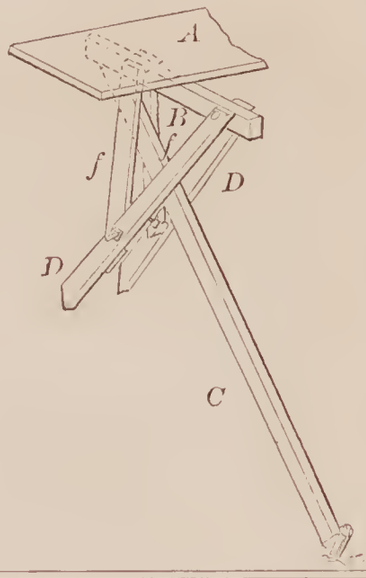


73343—E. Keith—*Shingle Machine.*

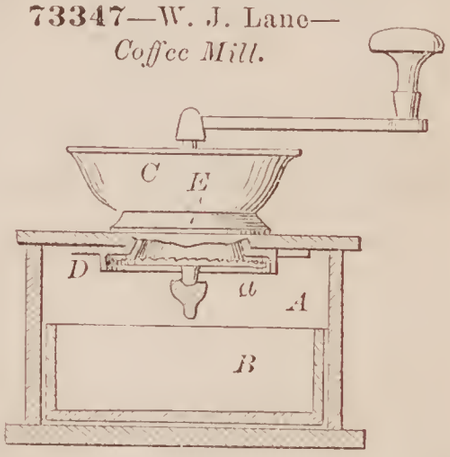




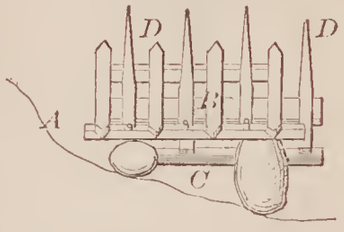
73346—Lamb & Livings—*Scaffold.*



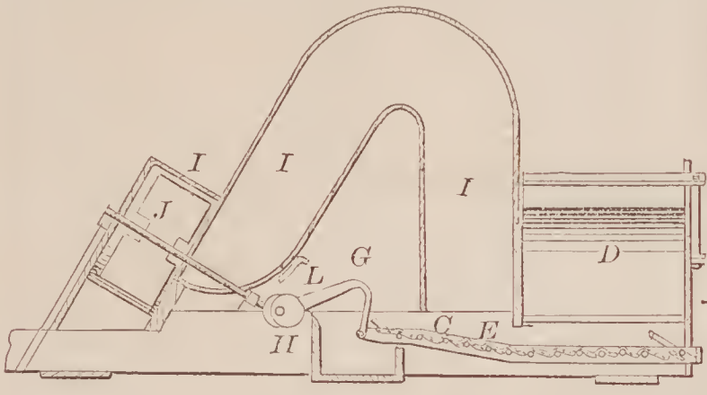
73347—W. J. Lane—*Coffee Mill.*

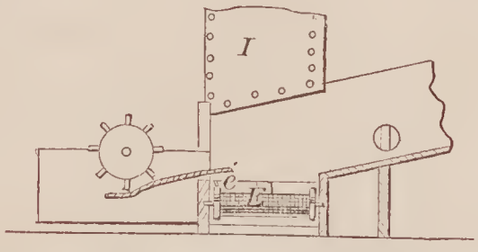


73345—H. A. Kephart—*Stream or River Fence.*

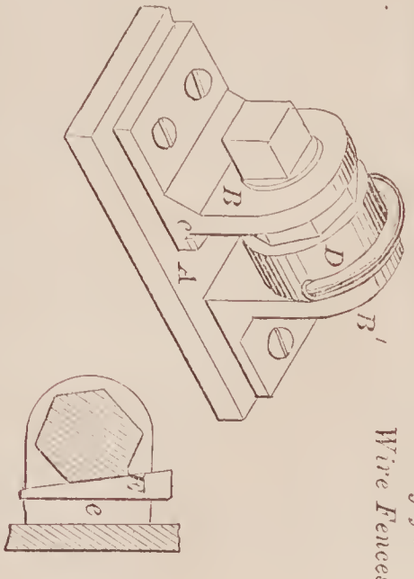


73348—L. B. Lathrop—*Threshing Machine and Grain Separator.*

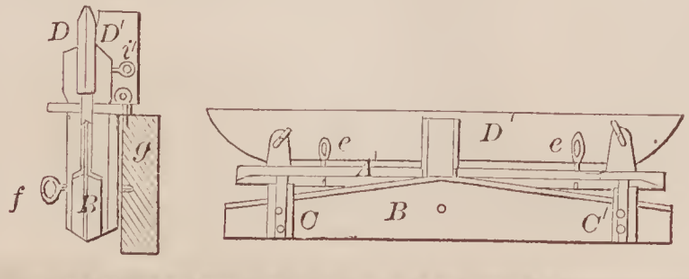




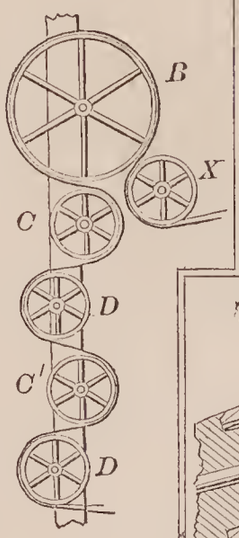
73349—W. E. Lockwood—*Fastening for Wire Fences.*



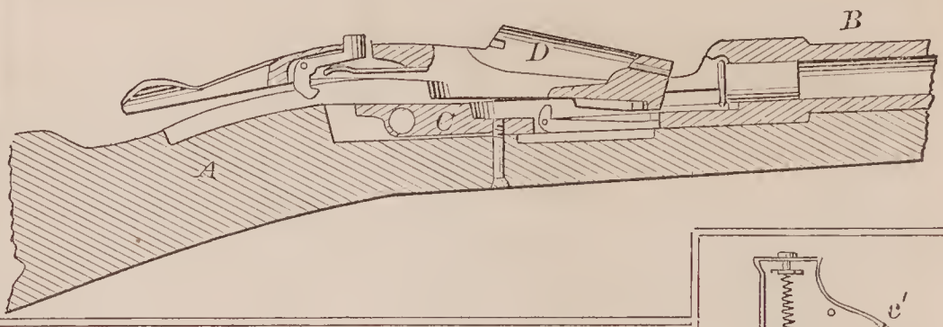
73344—C. Kendig—*Clamp for Filing Saws.*



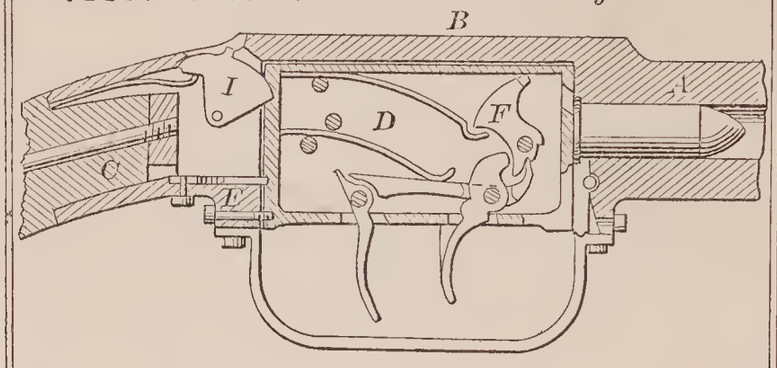
73350—W. E. Lockwood—*For Drying Envelopes.*



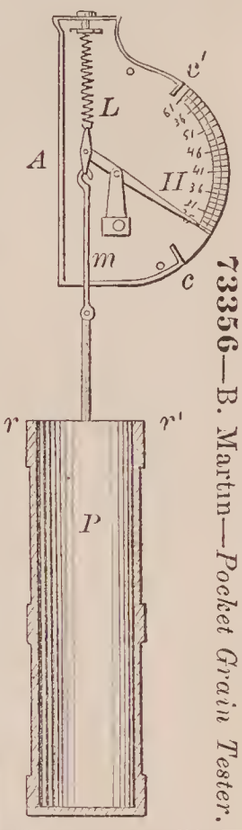
73351—H. Lord—*Cartridge Extractor.*



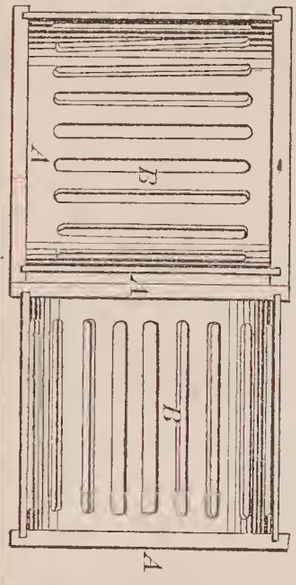
73357—J. E. McBeth—*Breech-Loading Fire Arm.*



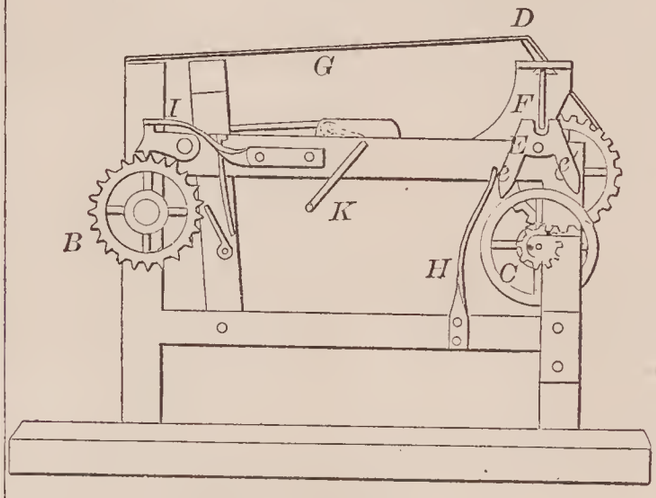
73356—B. Martin—*Pocket Grain Tester.*



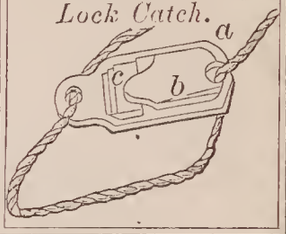
73352—T. Mabbett, Jr.—*Berry Box.*



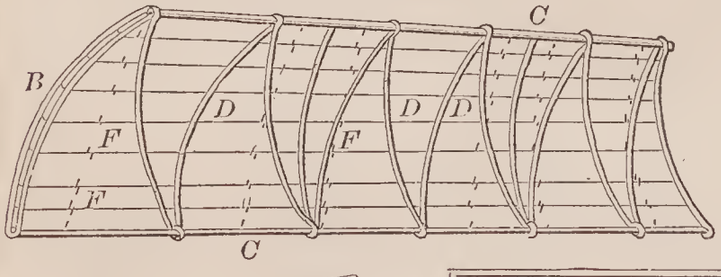
73353—J. A. Marden—*Let-off for Looms.*

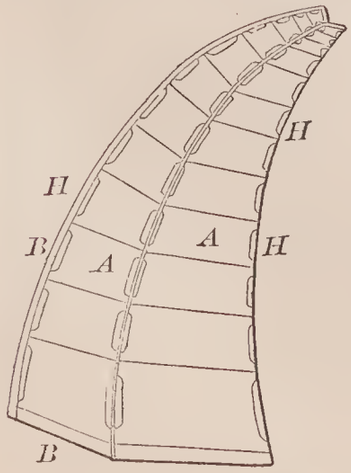


73358—E. P. McCeney—*Lock Catch.*

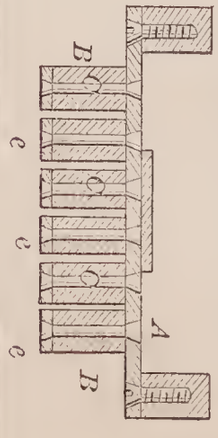


73355—W. M. Marshall—*Reflector.*

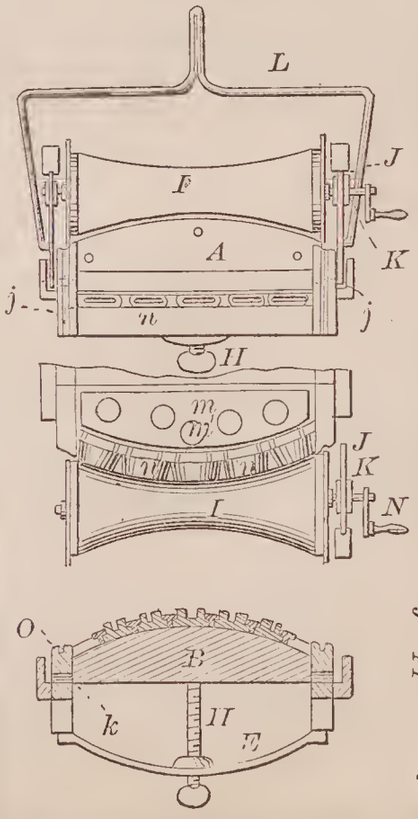




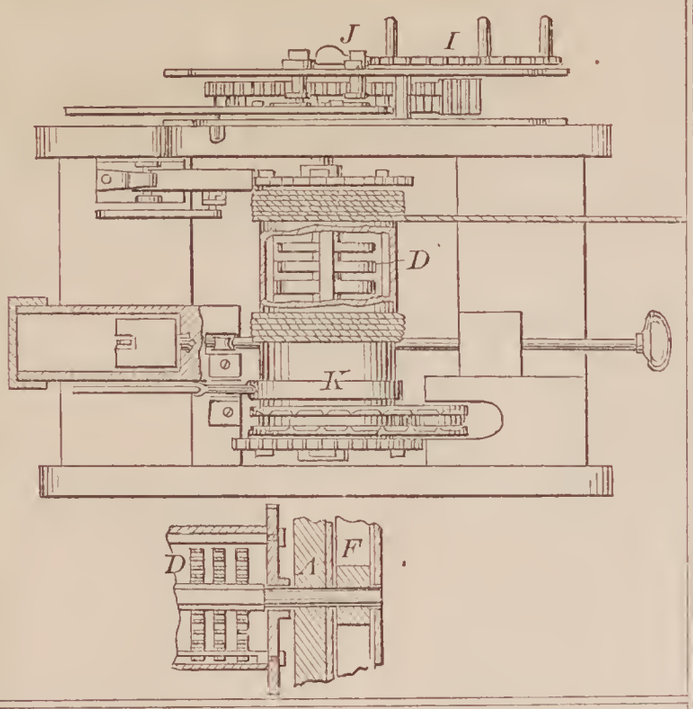
73354—G. F. Marks—*Mould for Manufacturing Tobacco.*



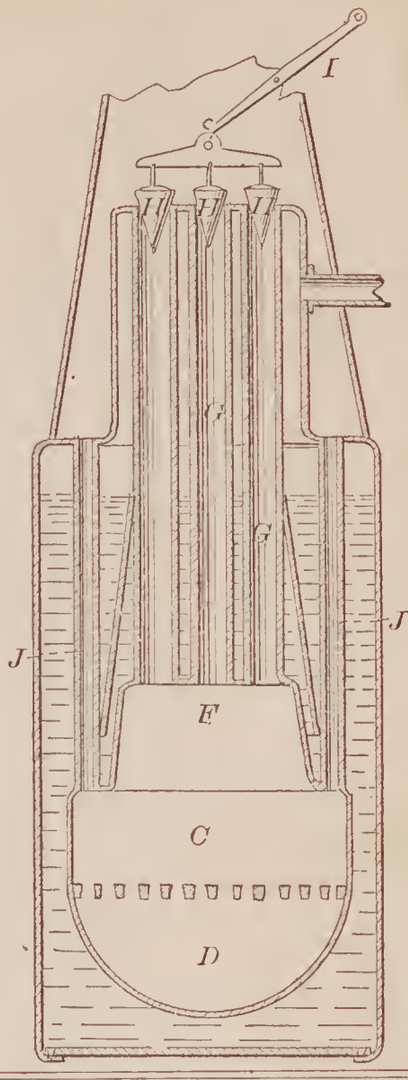
73359—J. McDermott—*Elastic Printing Apparatus.*



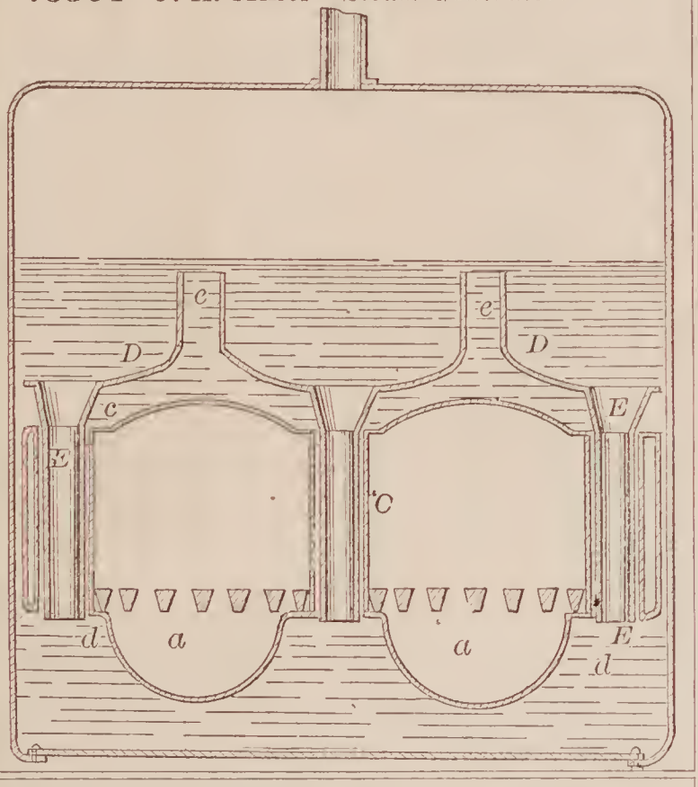
73360—W. G. McIvor—*Windlass.*



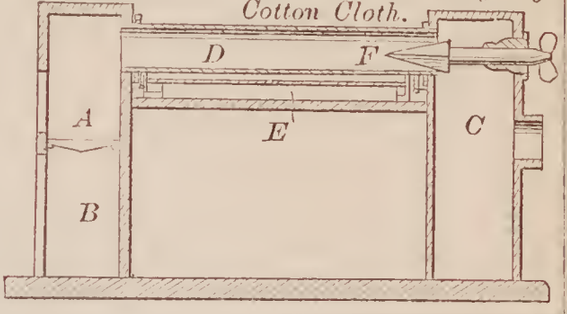
73363—J. A. Miller—*Steam Generator.*



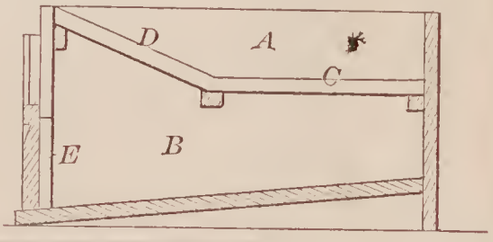
73364—J. A. Miller—*Steam Generator.*



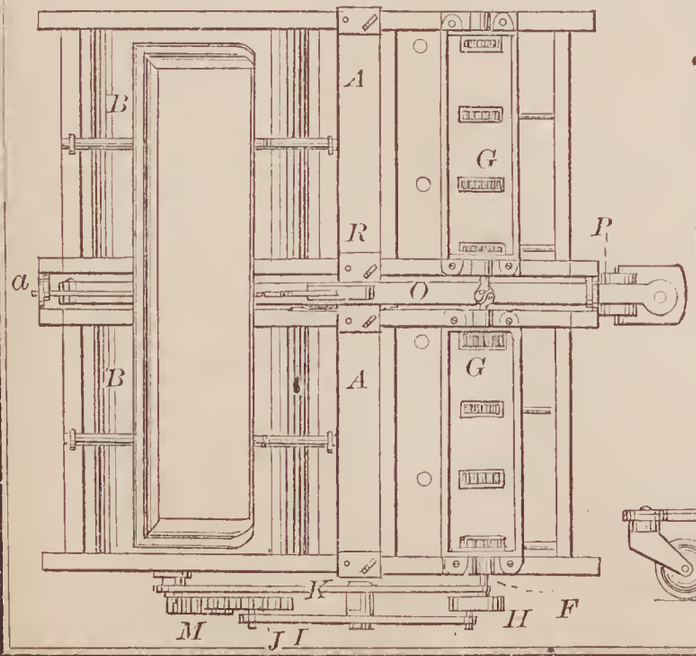
73362—J. A. Miller—*For Singeing Cotton Cloth.*

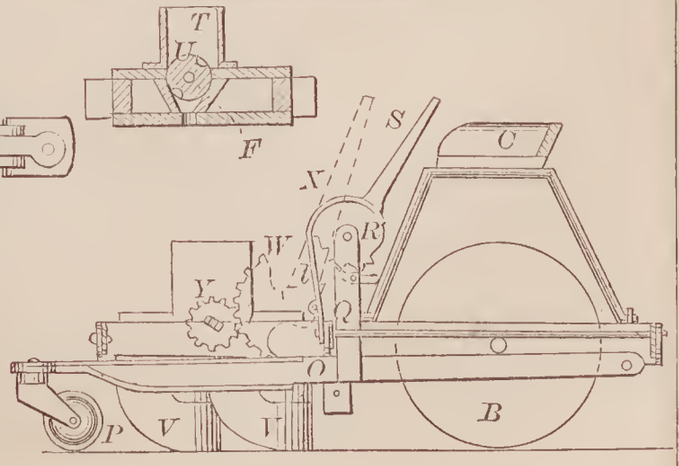


73361—J. A. Miller—*Ash Sifter.*

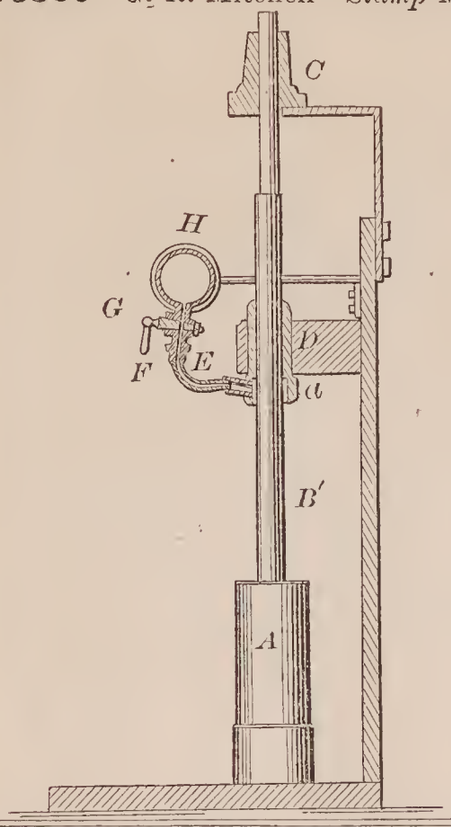


73365—T. S. Mills—*Drill, Roller and Cultivator.*

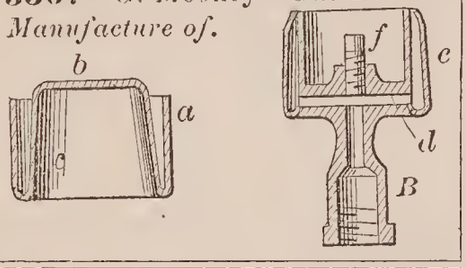




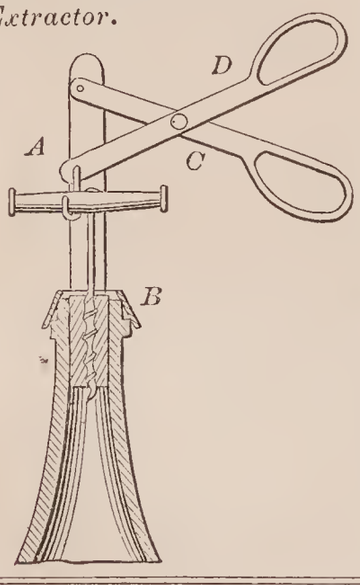
73366—G. R. Mitchell—*Stamp Mill.*



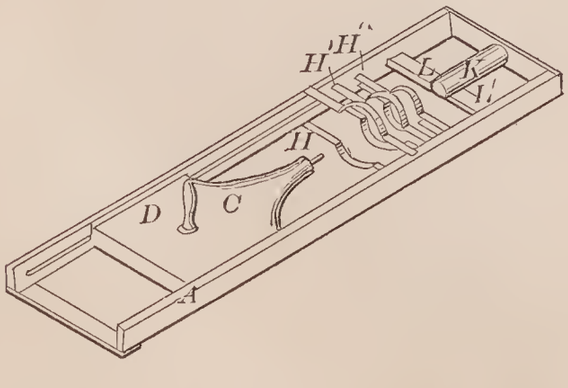
73367—G. Mooney—*Gas Burners Manufacture of.*



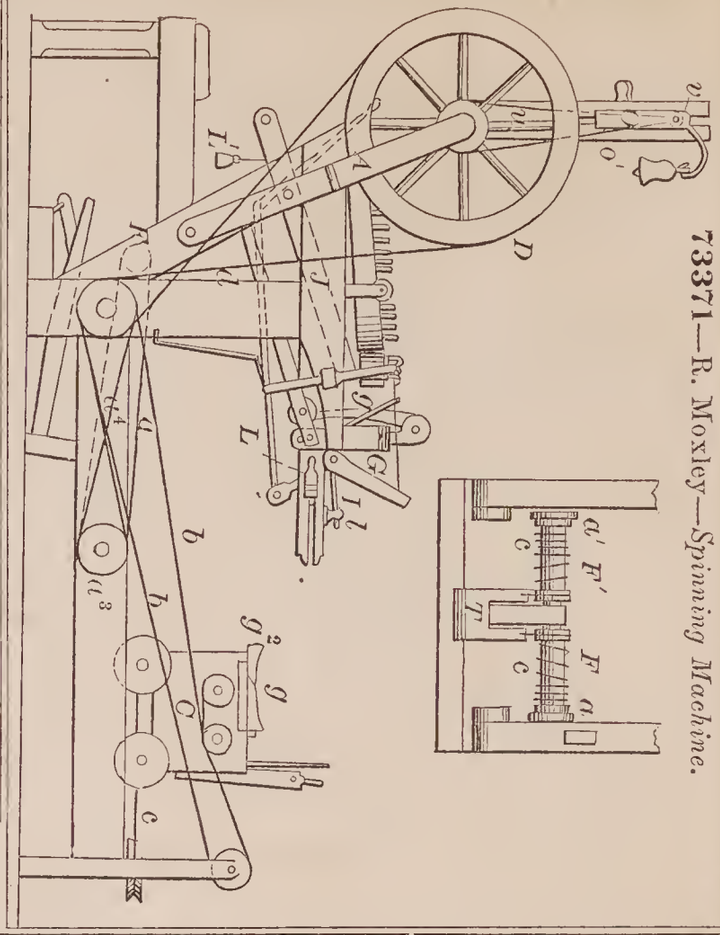
73370—J. Morton—*Cork Extractor.*



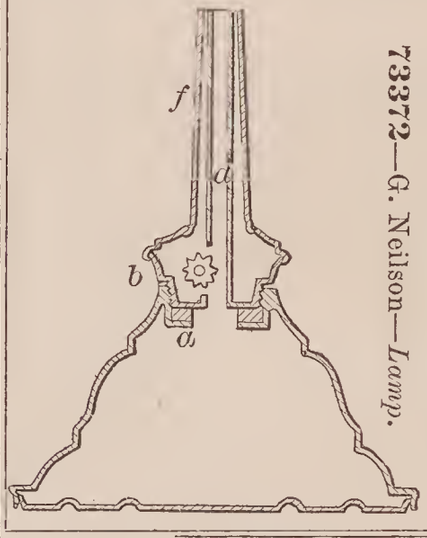
73373—H. & J. S. B. Norton—*Apple Slicer.*



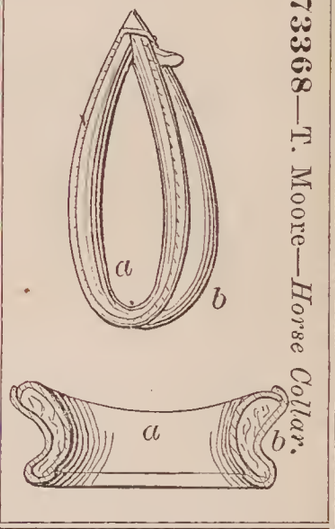
73371—R. Moxley—*Spinning Machine.*



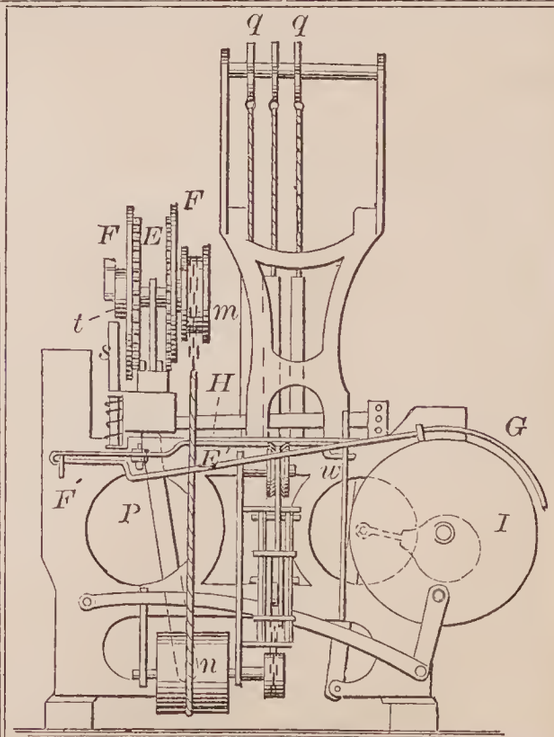
73372—G. Neilson—*Lamp.*

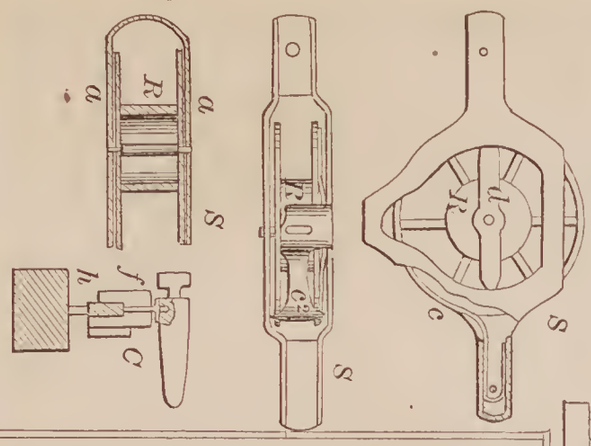


73368—T. Moore—*Horse Collar.*

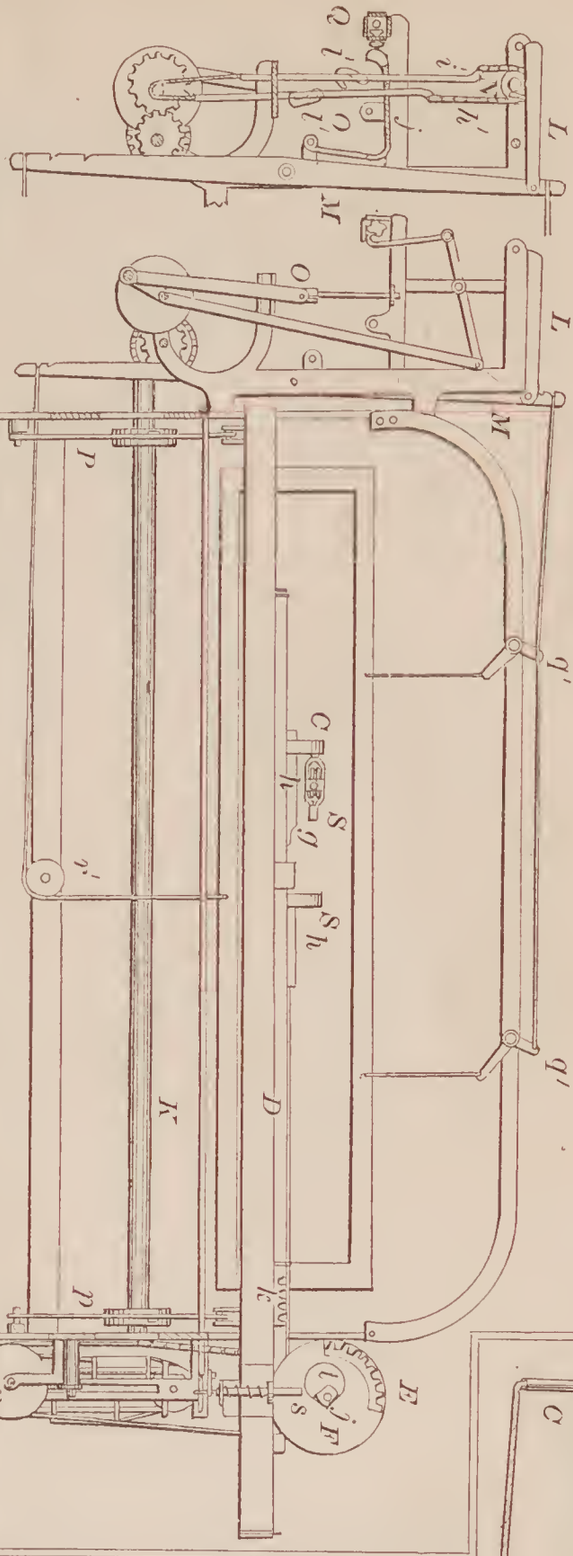


73374—B. & E. Oldfield—*Loom.*

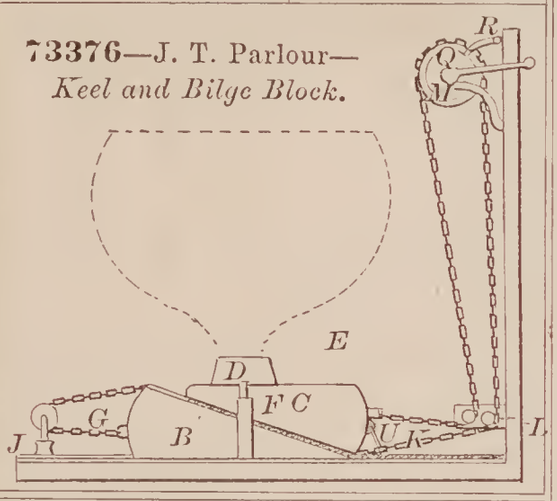




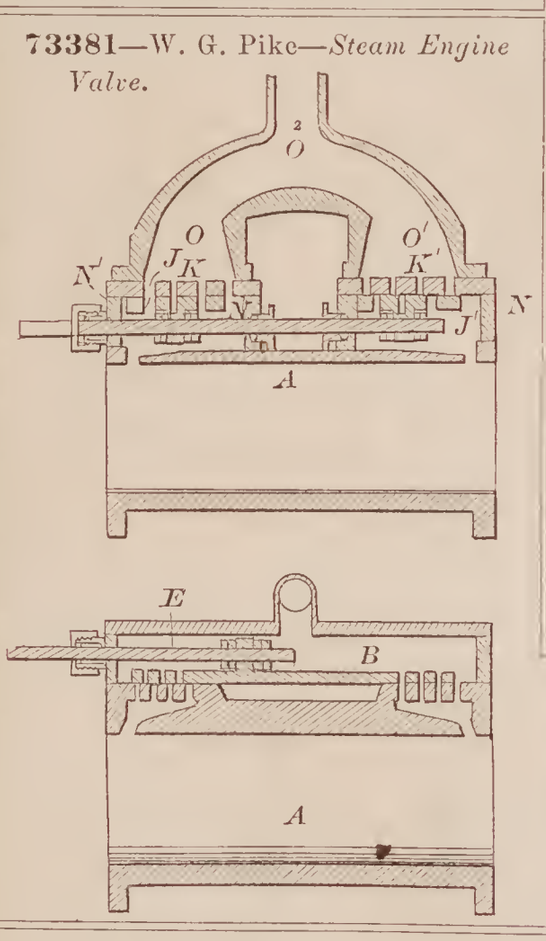
73374—*Continued.*



73376—J. T. Parlour—*Keel and Bilge Block.*

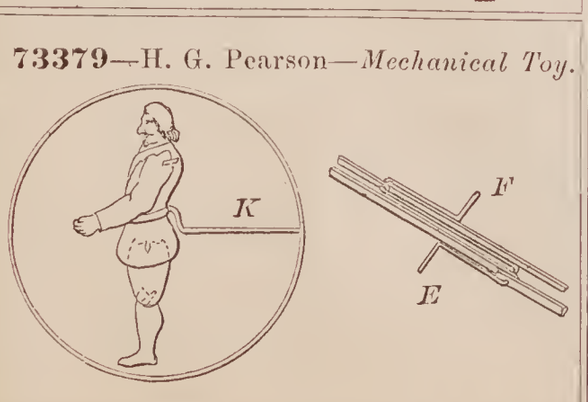


73381—W. G. Pike—*Steam Engine Valve.*

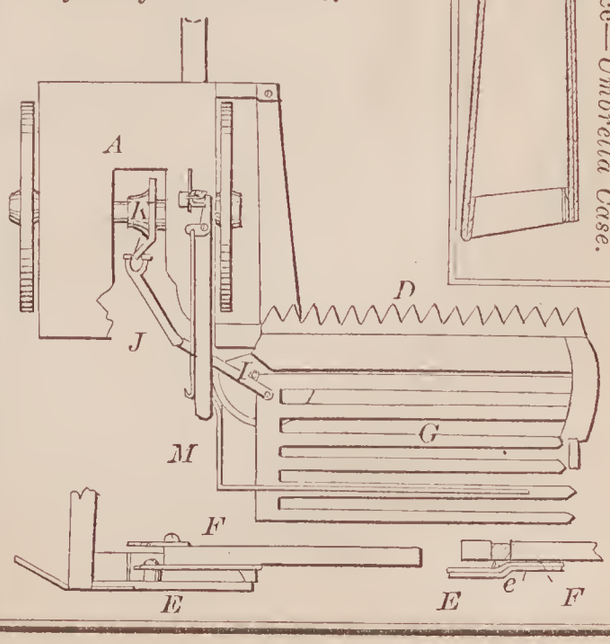


73378—S. H. Pearce—*Umbrella Case.*

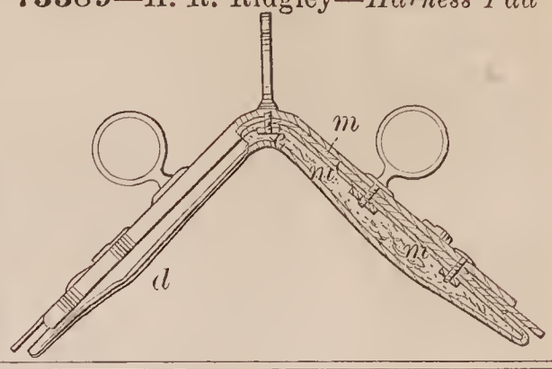
73379—H. G. Pearson—*Mechanical Toy.*



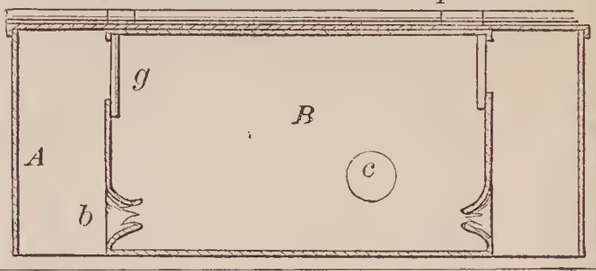
73380—G. M. Peters—*Platform for Harvesters.*



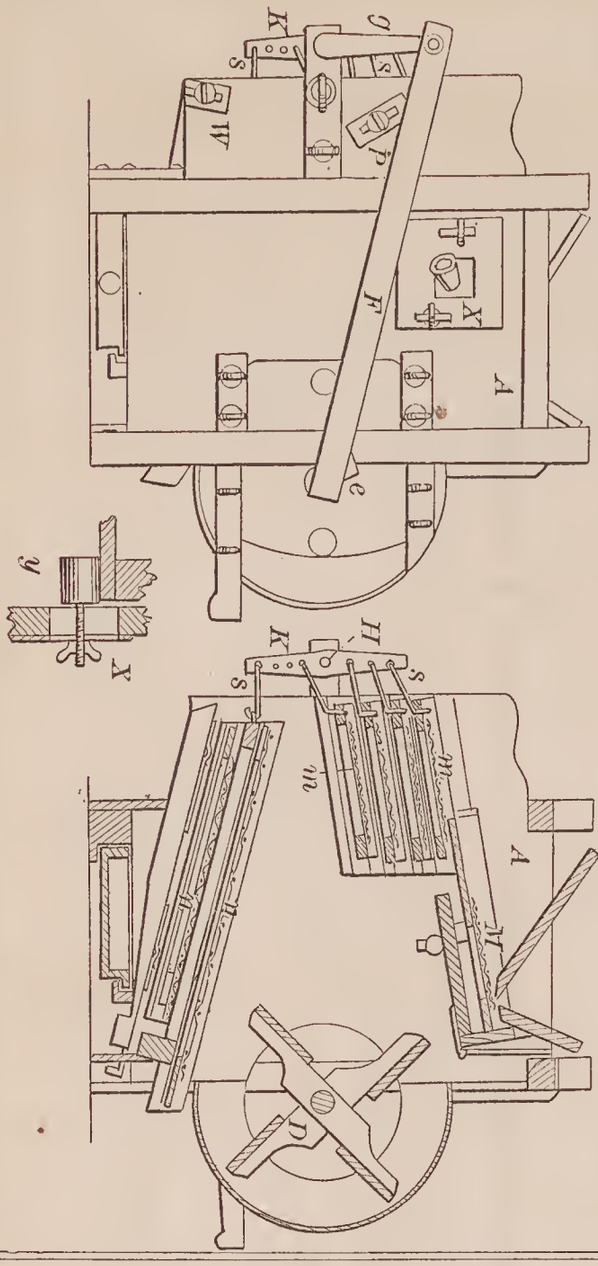
73389—H. R. Ridgley—*Harness Pad*



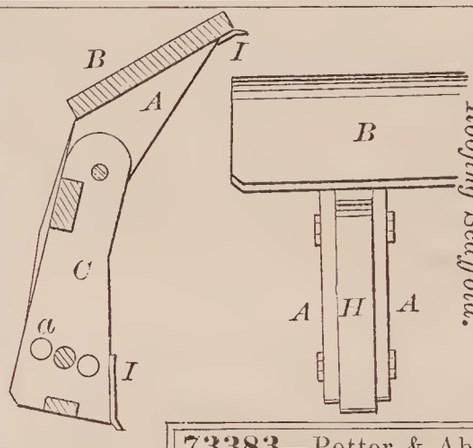
73384—S. Reed—*Animal Trap.*



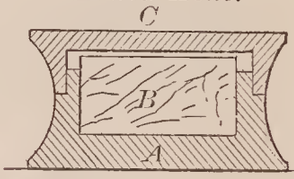
73382—J. F. Pool—*Separator.*



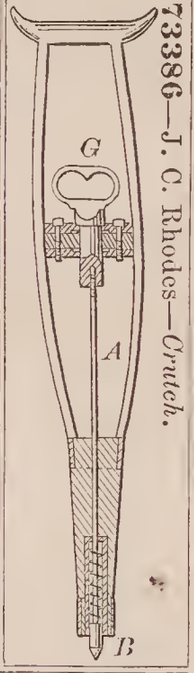
73387—P. Richmond—*Roofing Scaffold.*



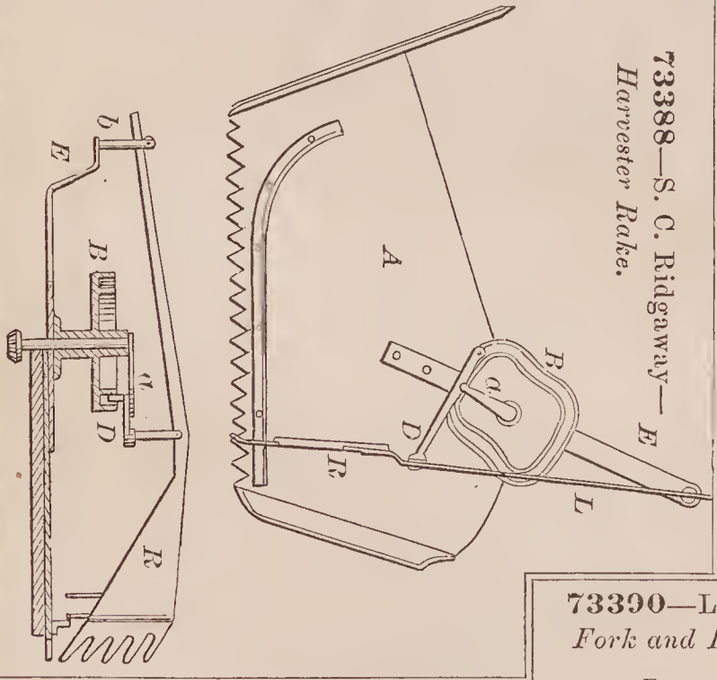
73383—Potter & Abell—*Boxed Hone.*



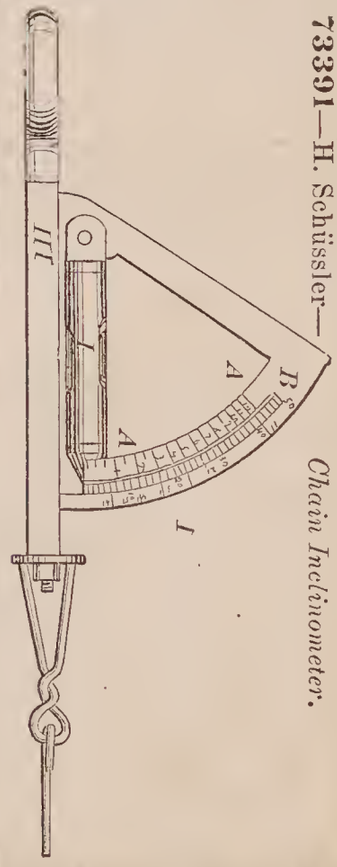
73386—J. C. Rhodes—*Crutch.*



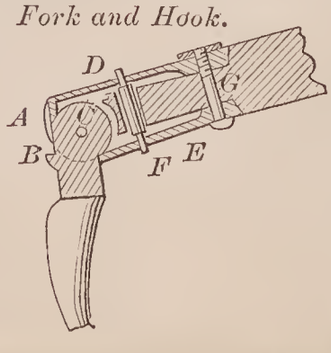
73388—S. C. Ridgaway—*Harvester Rake.*



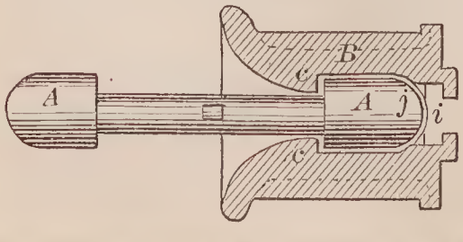
73391—H. Schüssler—*Chain Inclinometer.*



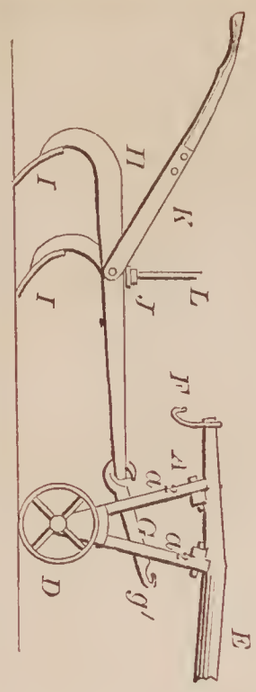
73390—L. Riggs—*Fork and Hook.*



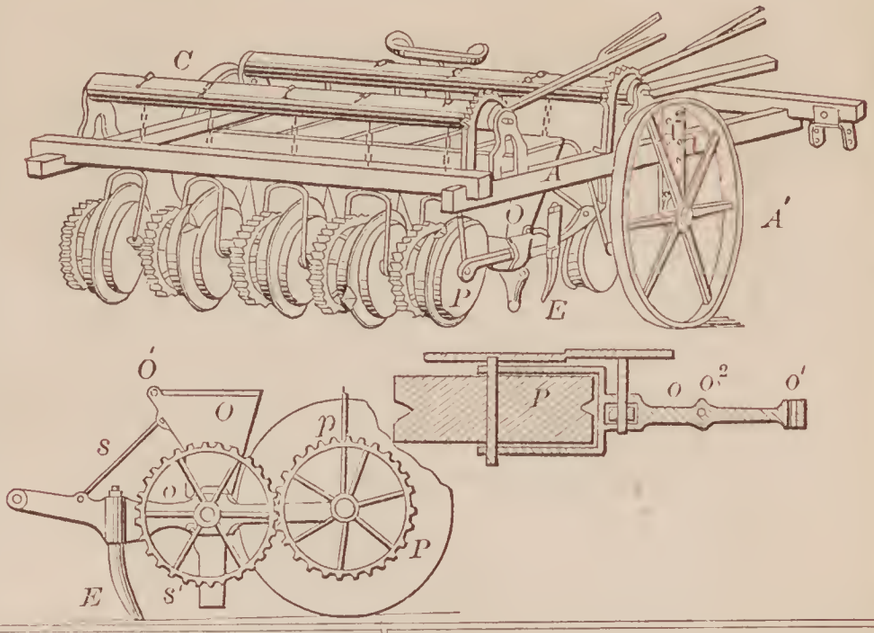
73385—H. Resley—*Car Coupling.*



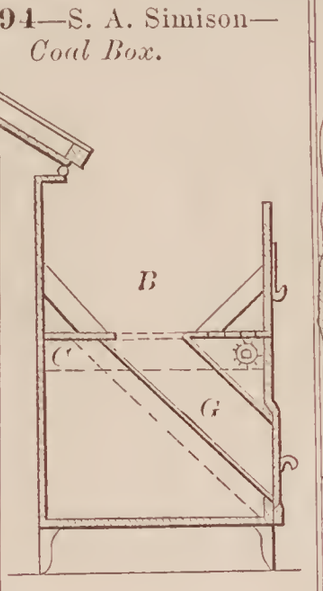
73392—J. P. Sexton—*Cultivator.*



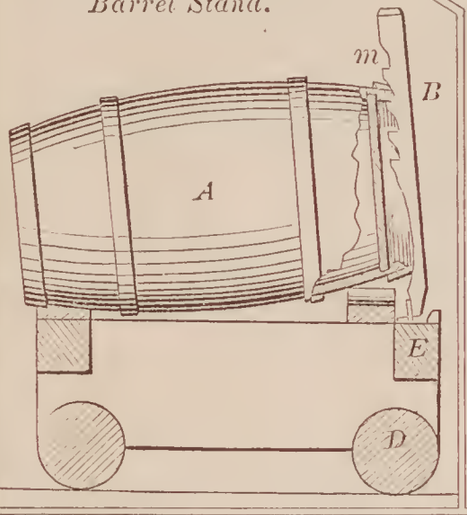
73393—S. Shirley—*Seed Drill and Roller.*



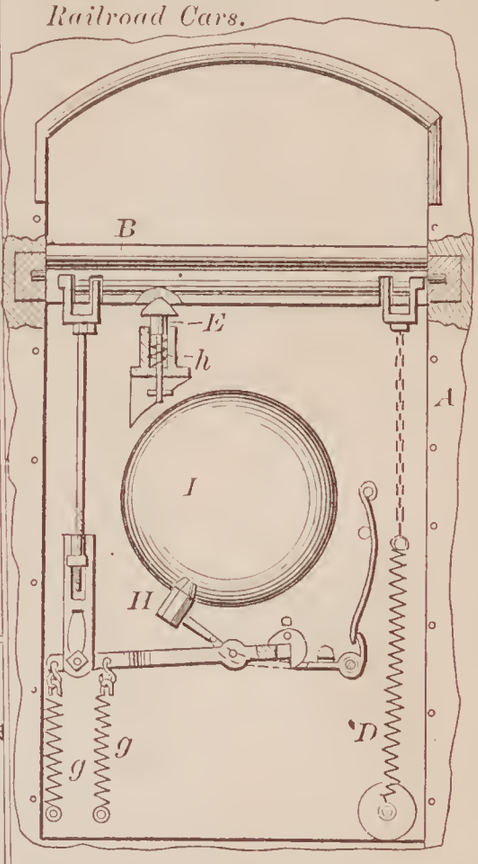
73394—S. A. Simison—*Coal Box.*



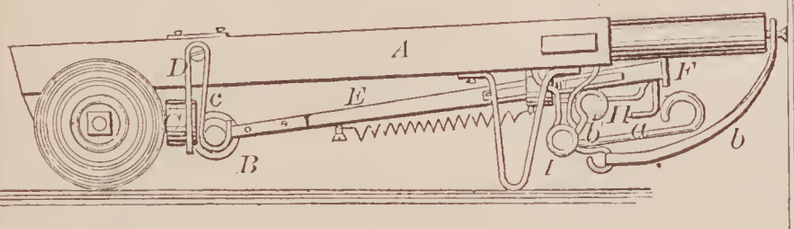
73395—P. J. Skinner—*Barrel Stand.*

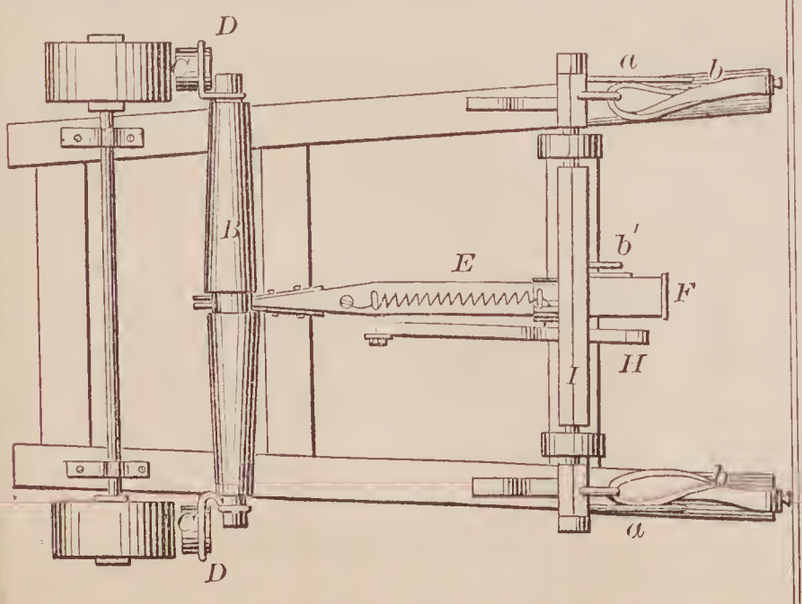


73396—J. B. Stawson—*Gate for Railroad Cars.*

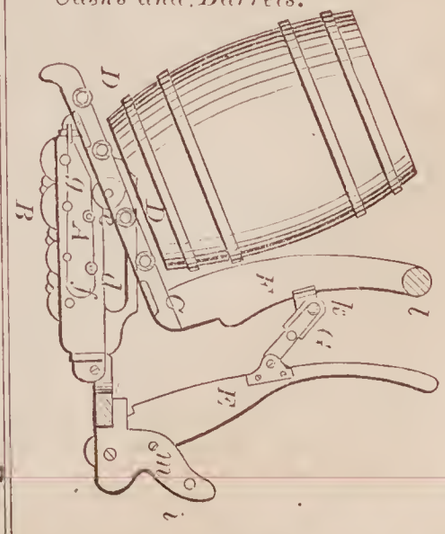


73397—A. V. Smith—*Store Truck.*

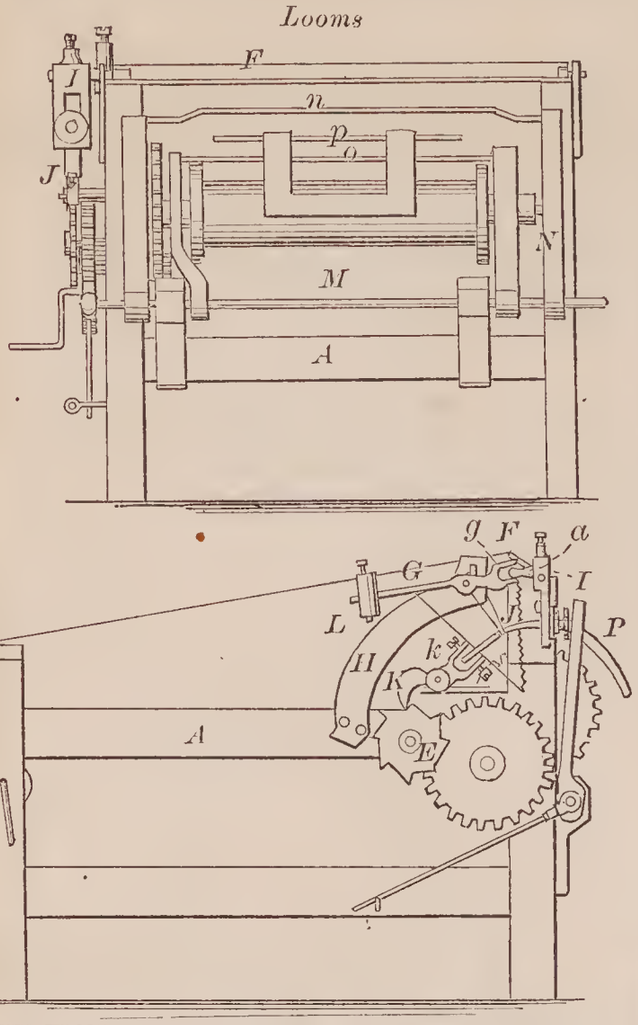




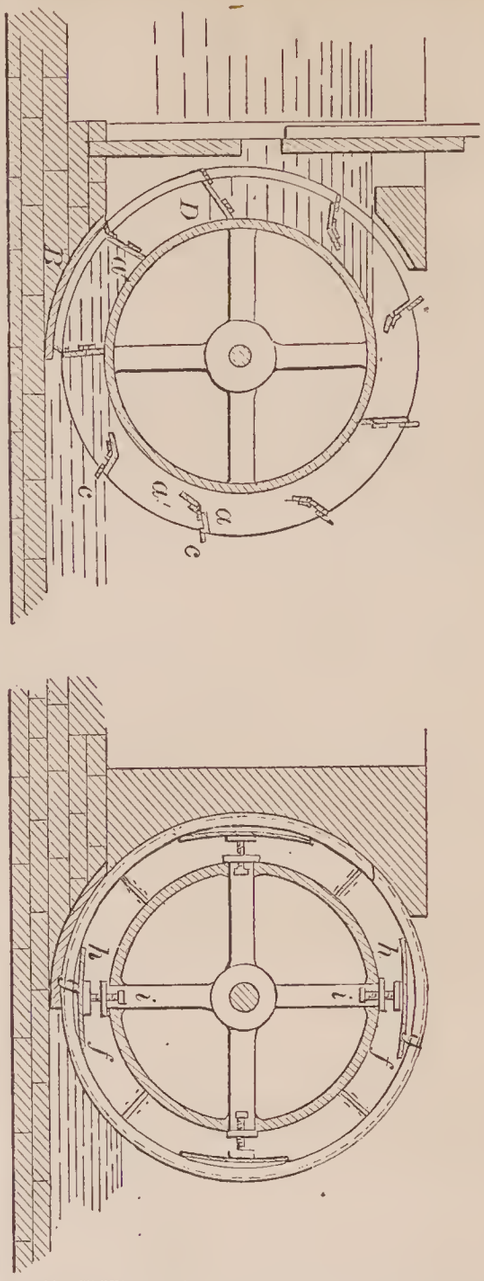
73398—R. Smith—*For Raising Casks and Barrels.*



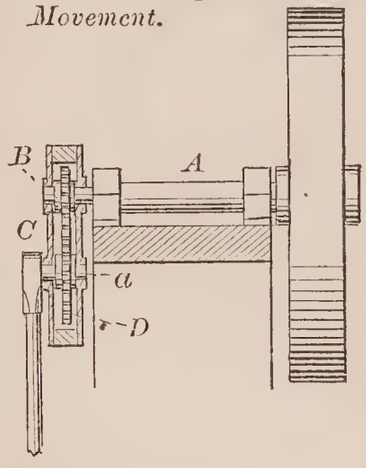
73399—Smith & Ely—*Let-off Mechanism for Looms*



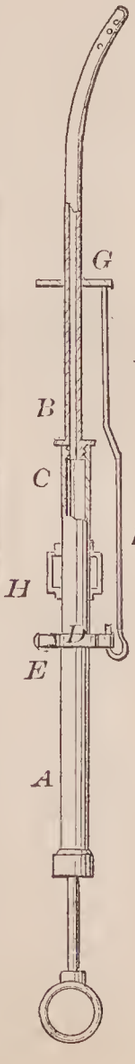
73400—W. Snodgrass—*Water Wheel.*



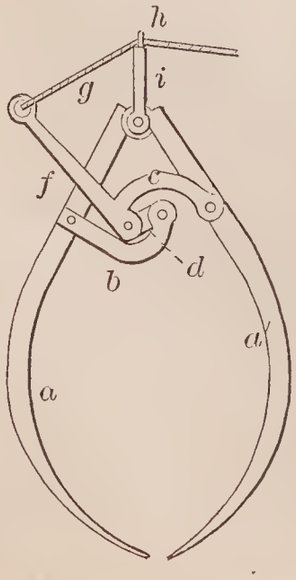
73401—E. Soper—*Mechanical Movement.*



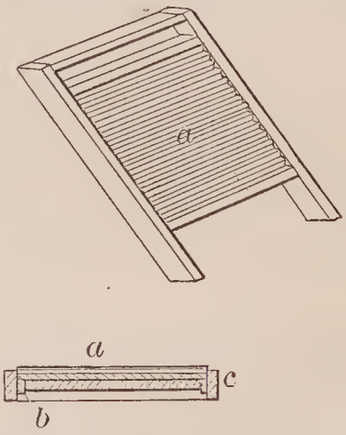
73402—N. B. Sornborger—*Catheter and Syringe.*



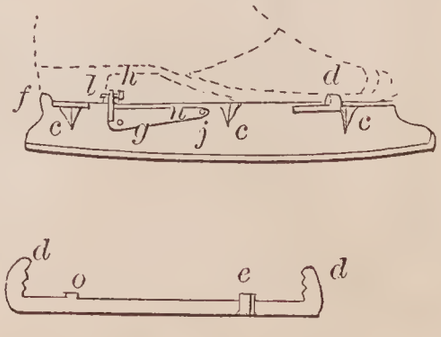
73403—I. C. Spear—*Horse Hay Fork.*



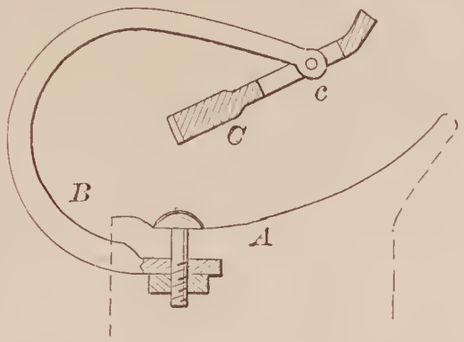
73404—E. M. Stevens—*Wash Board.*



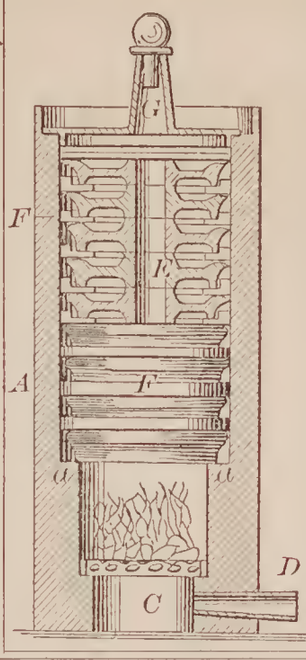
73405—W. X. Stevens—*Skate.*



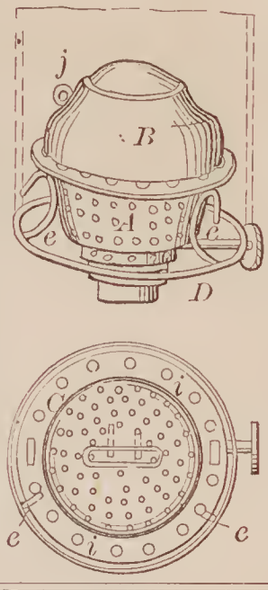
73406—F. W. Stokes—*Check Rein Hook*



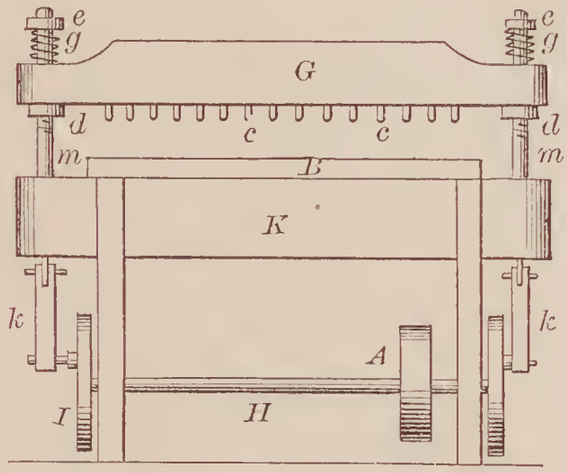
73407—W. R. Thomas—*Annealing Furnace.*



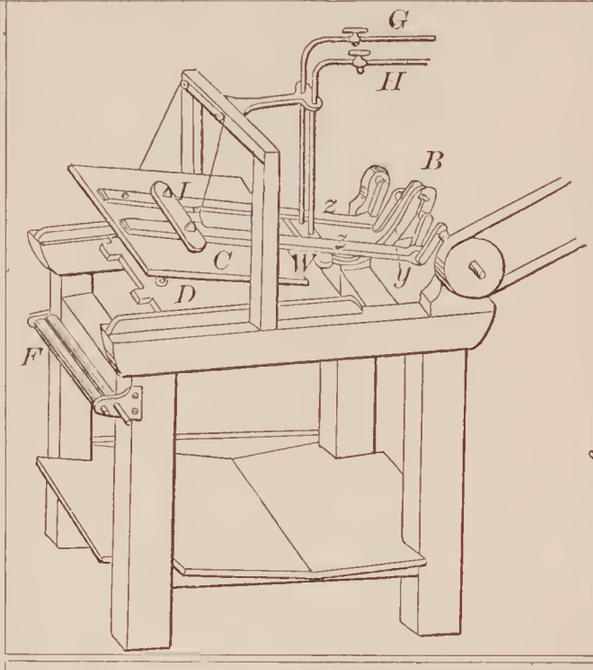
73409—H. Tilden—*Lamp.*



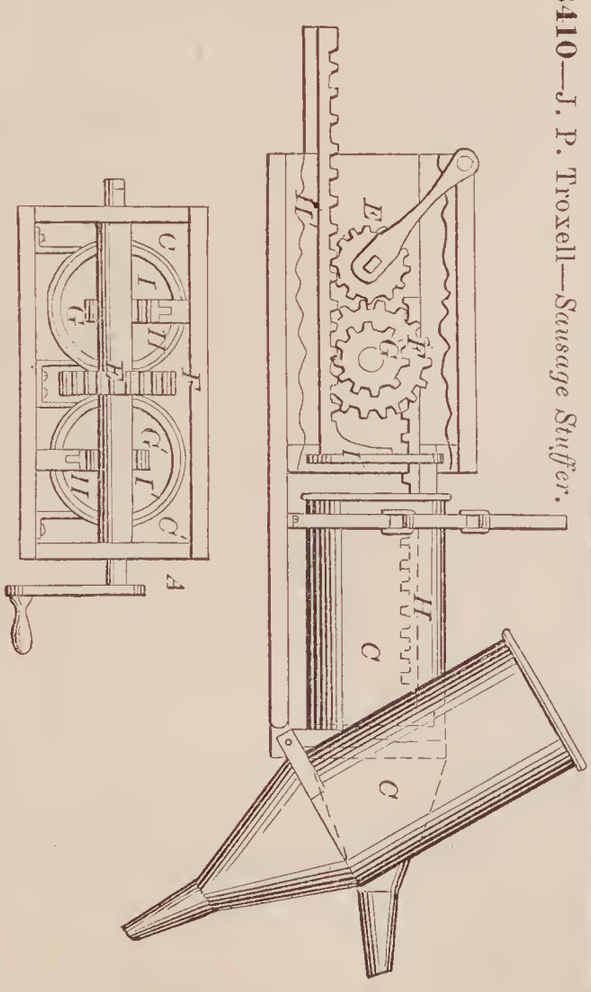
73408—J. Tidd—*For Softening Leather and Hides.*



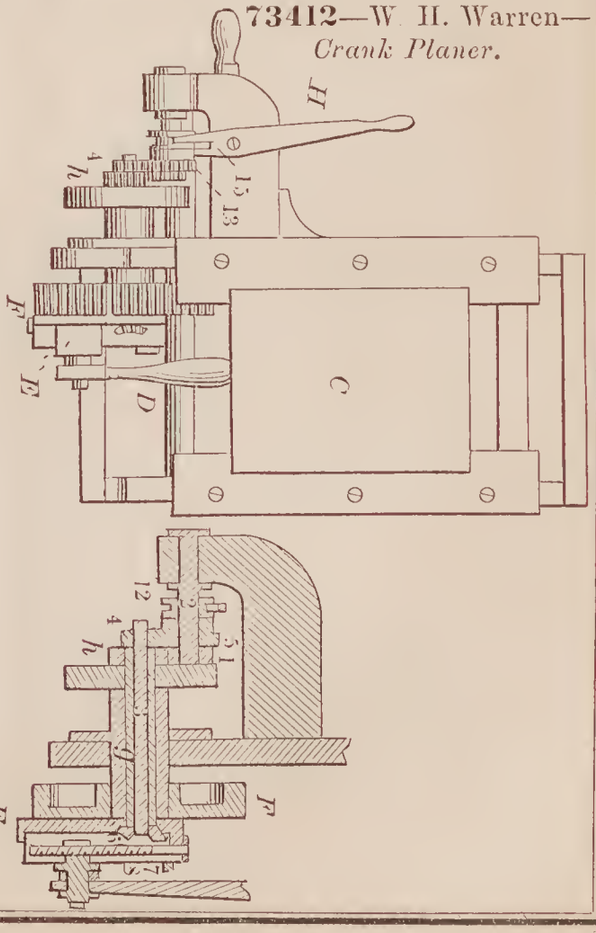
73411—H. Warner—*For Sizing Hat Bodies*



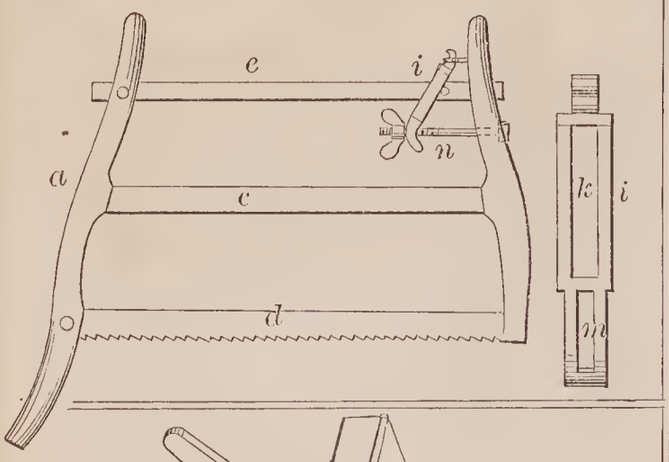
73410—J. P. Troxell—*Sausage Stuffer.*



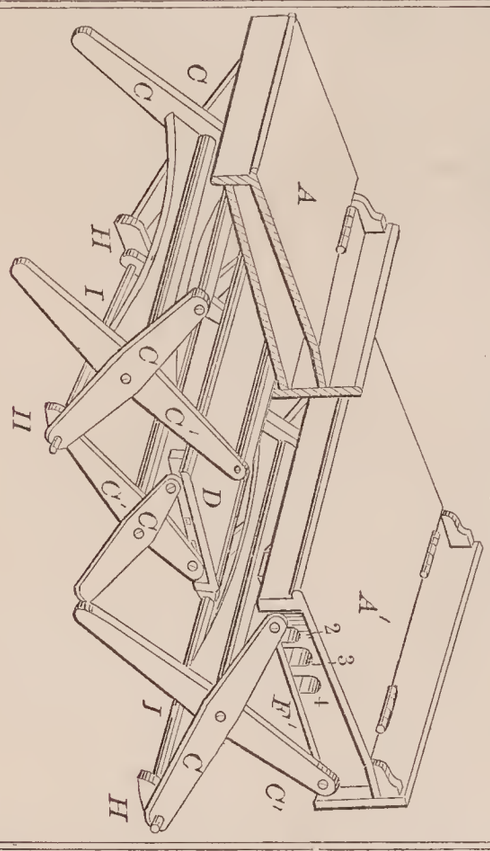
73412—W. H. Warren—*Crank Planer.*



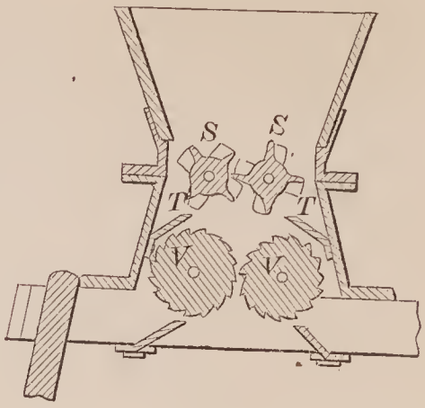
73413—J. R. Webster—*Straining Wood Saws.*

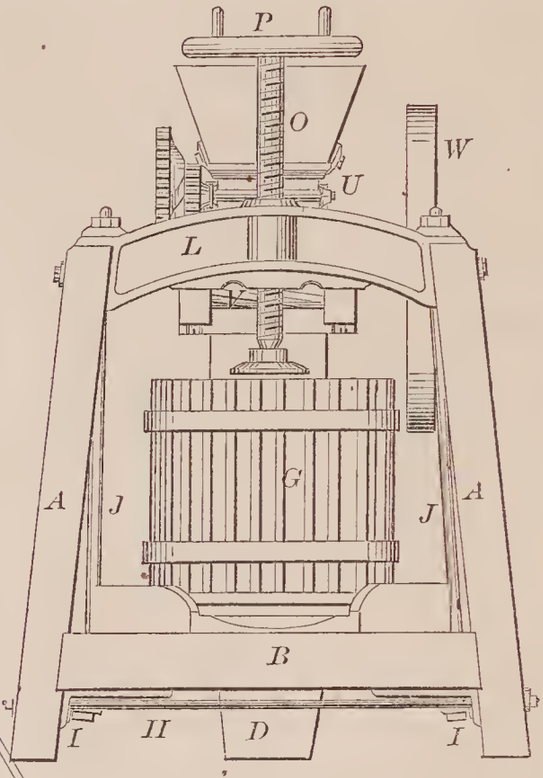


73416—H. W. White—*Desk and Seat.*

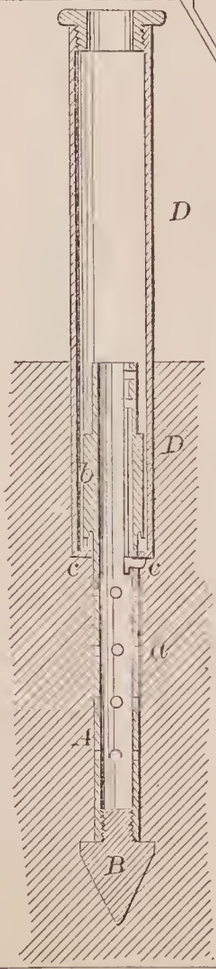


73417—Whitely, Fassler & Kelly—*Cider Mill.*

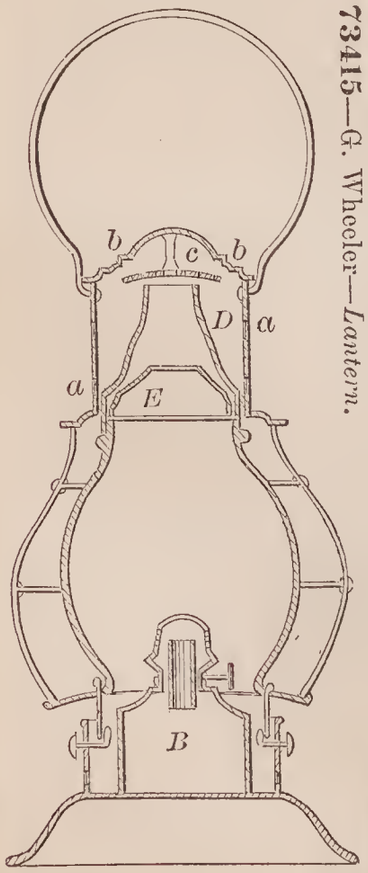




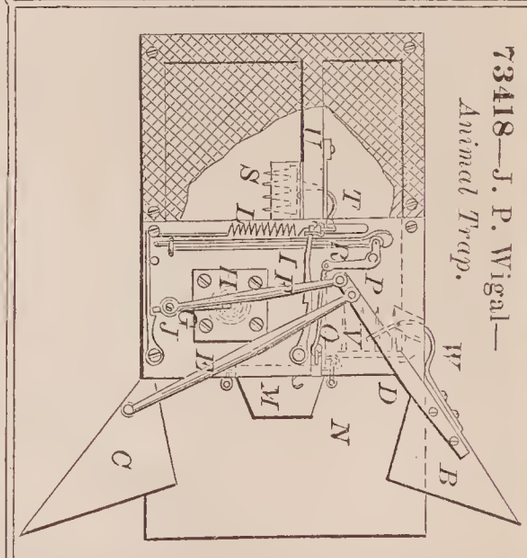
73414—Welch & Miller—*Tube Well.*



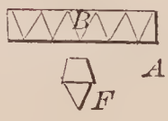
73415—G. Wheeler—*Lantern.*



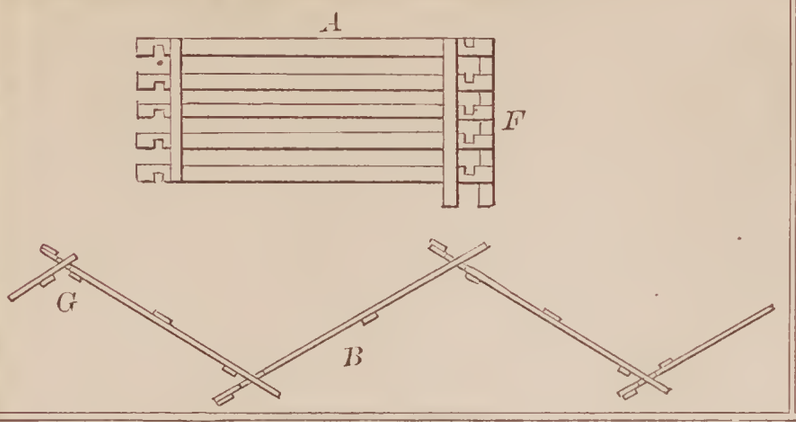
73418—J. P. Wigal—*Animal Trap.*



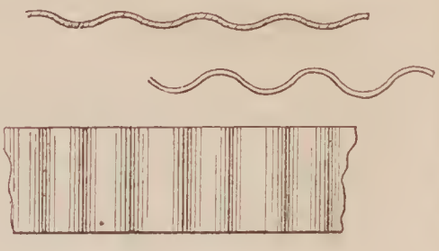
73419—E. Wiley—*Pen.*



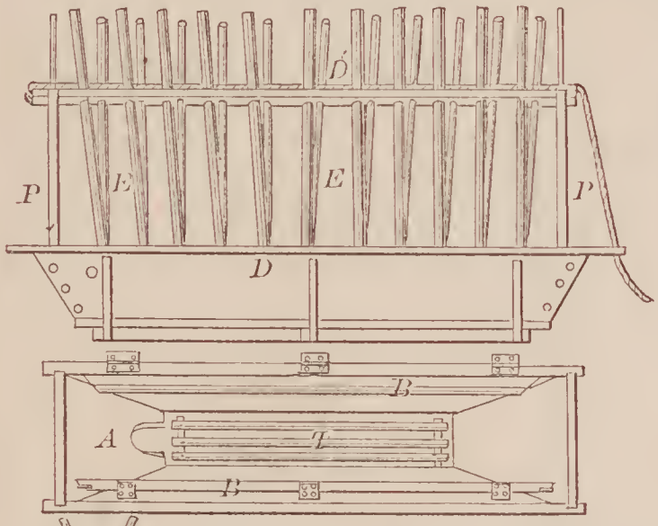
73420—J. Will—*Worm Fence and Pen.*

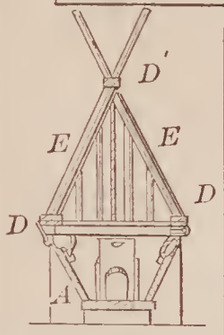


73421—J. B. Wilson—*Veneer.*

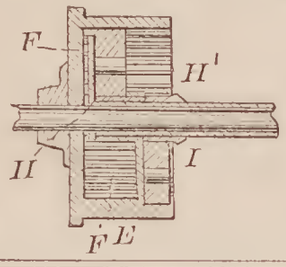


73426—J. D. McBride—*Trough and Rack for Feeding Sheep, &c.*

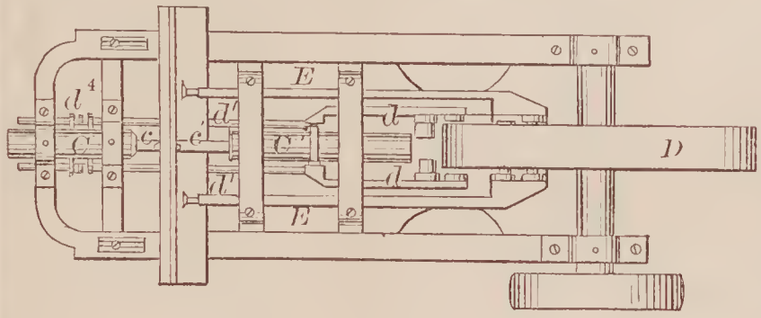


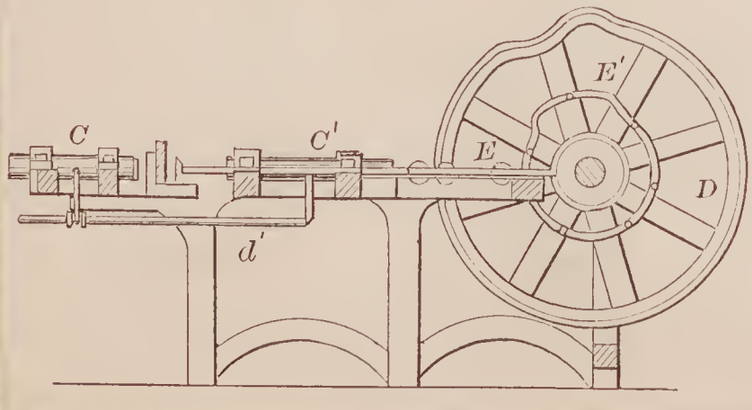


73424—W. F. Goodwin—*Harvester.*

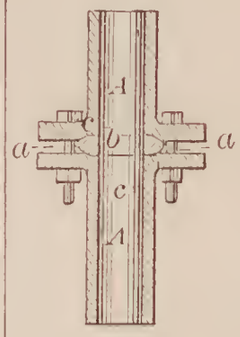


73428—Baggerman & Green—*Mortising Machine.*

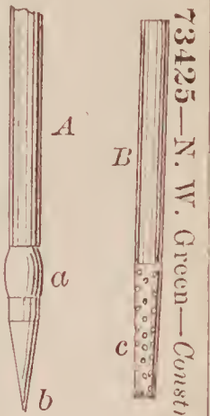




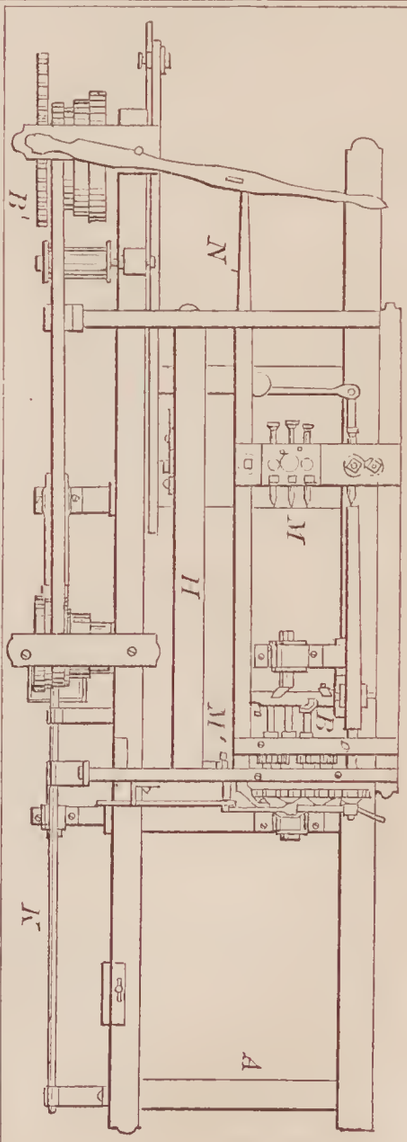
73422—L. Wilson—*Pipe Coupling.*



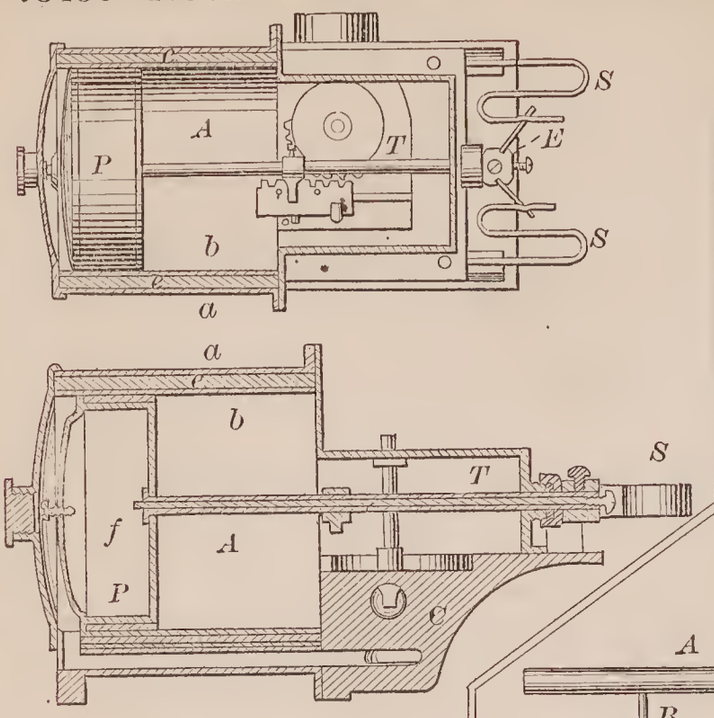
73425—N. W. Green—*Constructing Wells.*

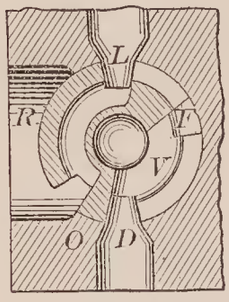


73423—E. K. Wisell—*Wood Turning Lathe.*

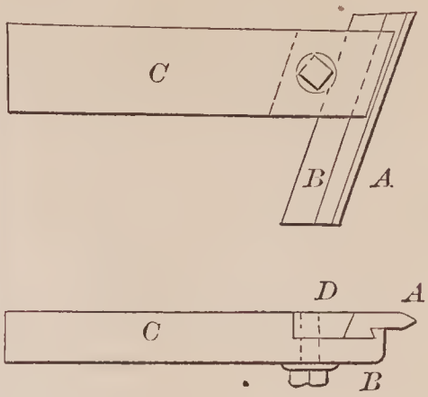


73430—P. Ball—*Water Meter.*

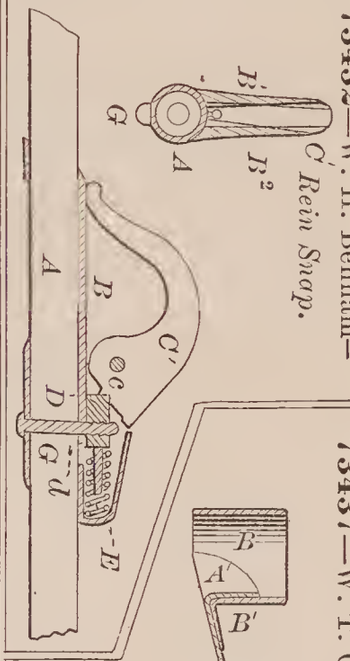




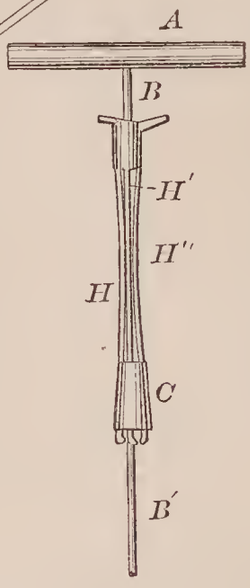
73431—E. B. Beach—*Screw Cutting Tool.*



73432—W. H. Benham—*Rein Snap.*

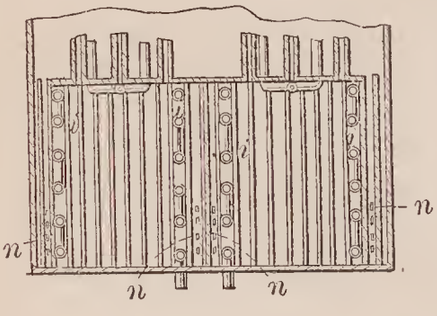


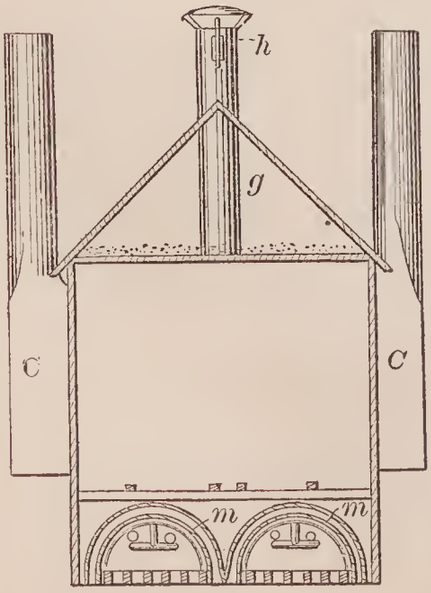
73435—S. E. Clapp—*Cork Pull.*



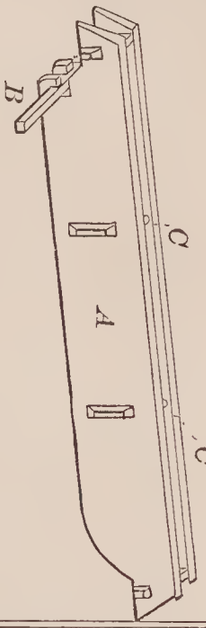
73437—W. T. Clement—*Hoe*

73433—J. K. Caldwell—*Brick Drying Apparatus.*



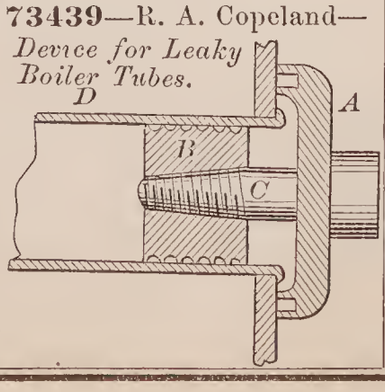


73436—G. H. Clarke—*Furnace Grate Bar.*



73438—Cooper & Gregory—*Carriage Perch.*

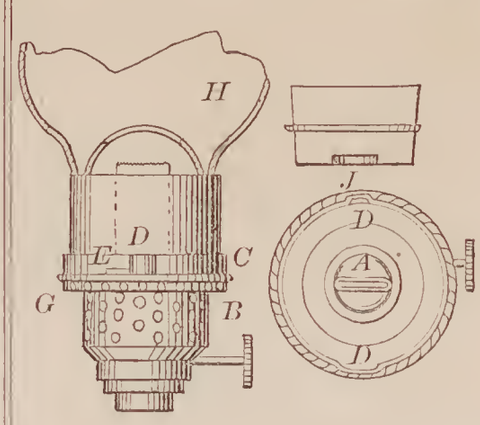
73439—R. A. Copeland—*Device for Leaky Boiler Tubes.*



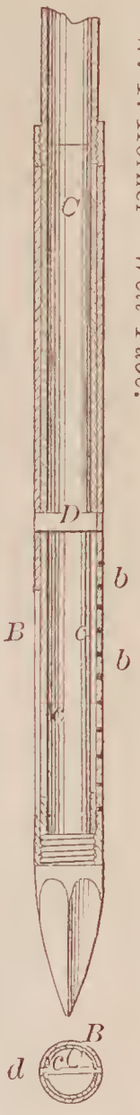
73440—De Forest & Gilbert—*Corset Spring.*

73448—J. M. Keep—*Spring Pen Rack.*

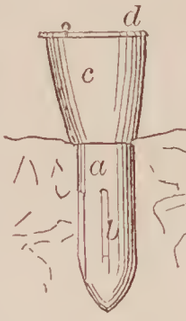
73443—S. W. Fowler—*Lamp.*



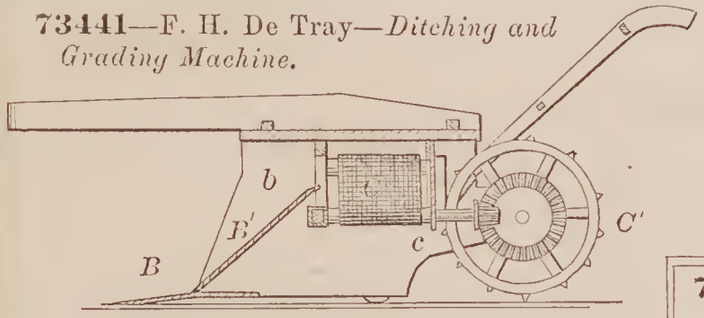
73446—W. T. Horner—*Well Tube.*

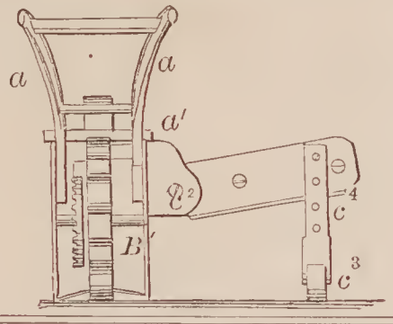


73442—J. C. Fish—*Tree Feeding Tube.*

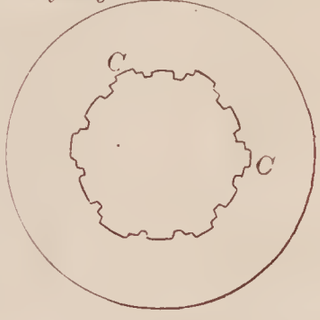


73441—F. H. De Tray—*Ditching and Grading Machine.*

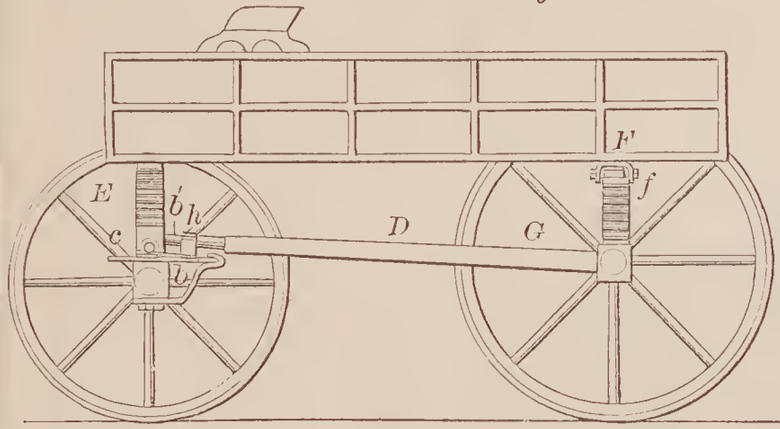


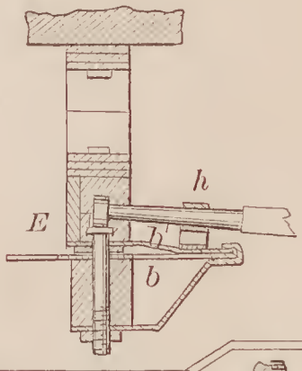


73447—B. B. Hotchkiss—*Rifling Ordnance.*

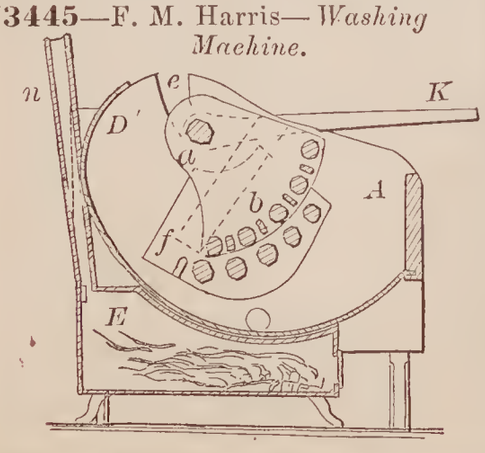


73444—D. D. Gitt—*Vehicle Running Gear.*

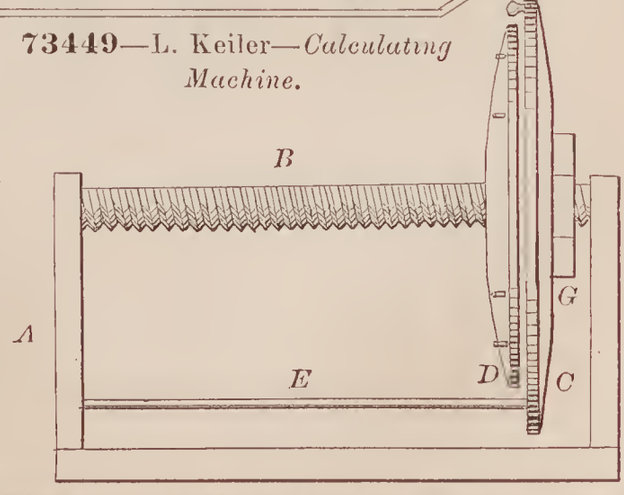




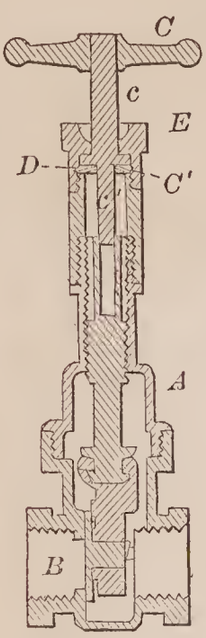
73445—F. M. Harris—*Washing Machine.*



73449—L. Keiler—*Calculating Machine.*

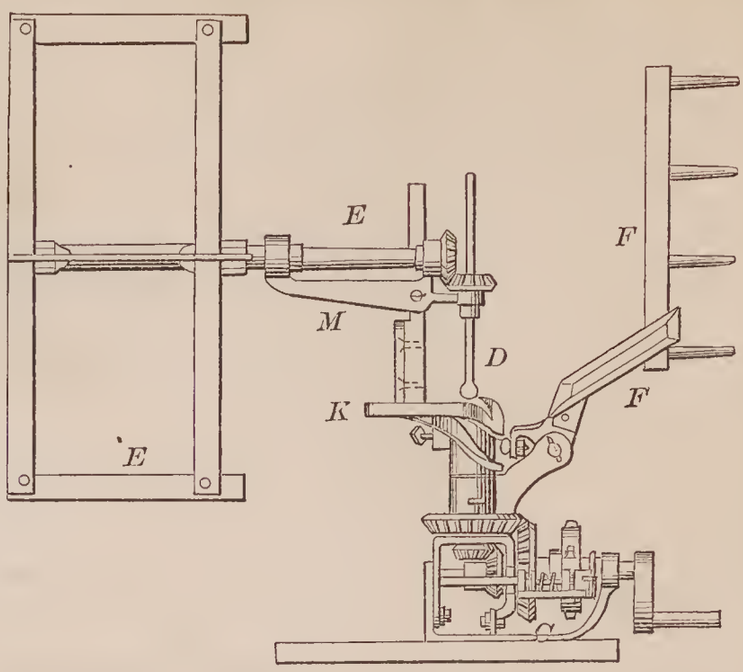


73450—C. Kline—*Stuffing Box for Valve Stems.*

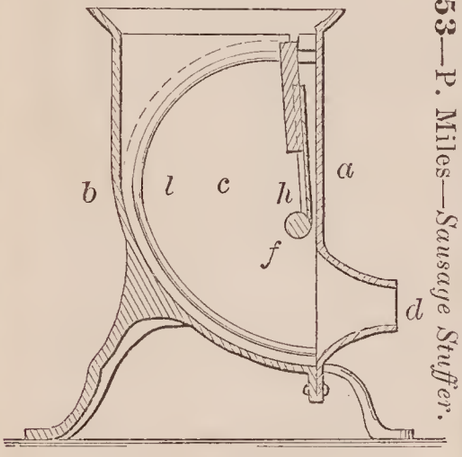


73451—H. O Lothrop—*Coating Heel and Toe Iron.*

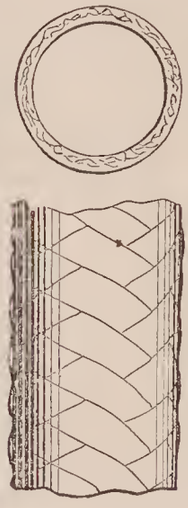
73452—W. G. Merrell—*Harvester Rake.*



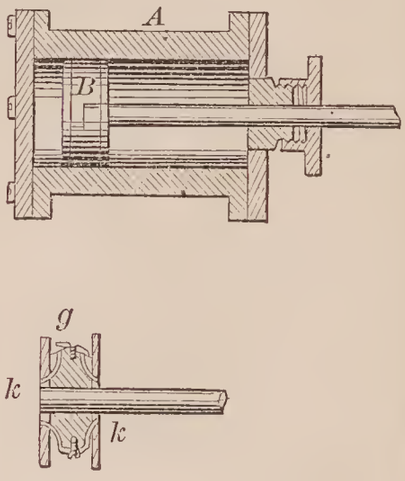
73453—P. Miles—*Sausage Stuffer.*



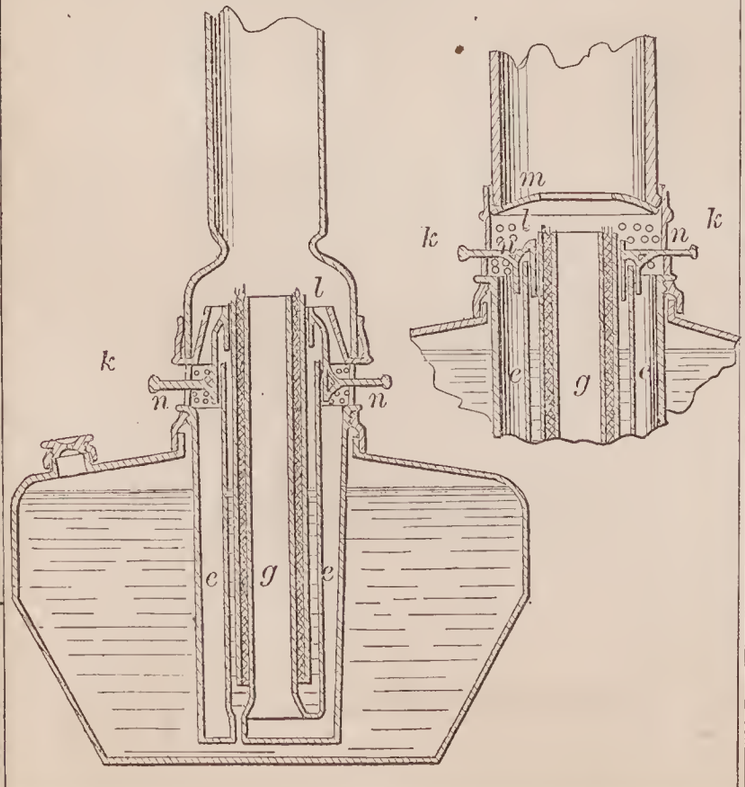
73454—W. H. Miller—*Piston Rod Packing.*



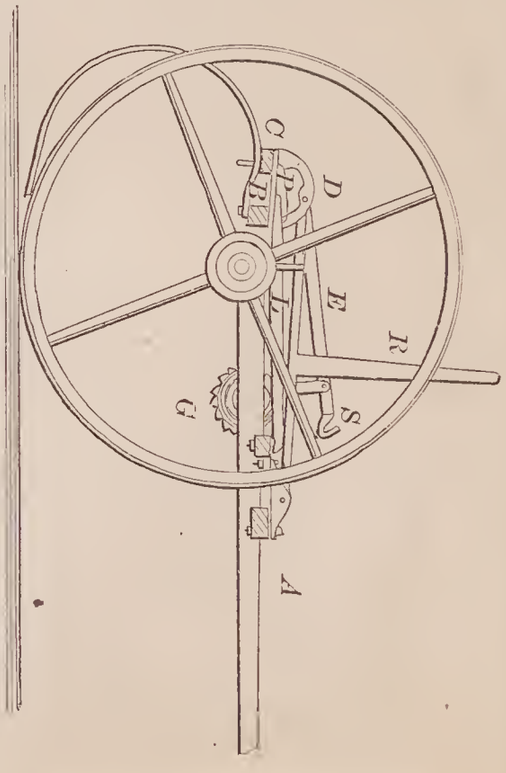
73456—A. Nadow—*Piston.*



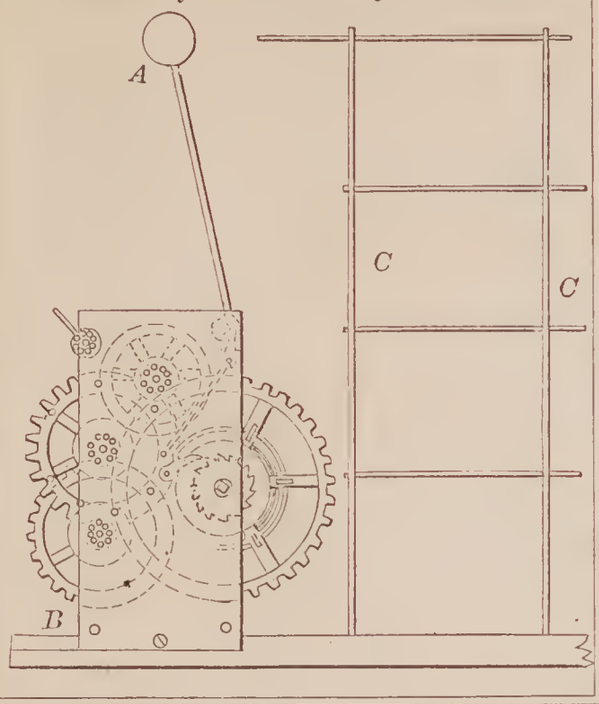
73455—Murray & Howland—*Argand Lamp for Burning Petroleum.*



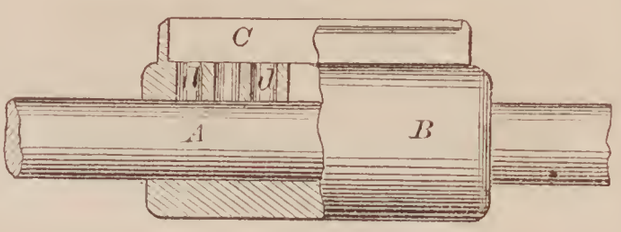
73457—O. Nivison—*Horse Rake.*



73458—W. H. Noble—*For Preventing the Curculio from Ascending Fruit Trees.*

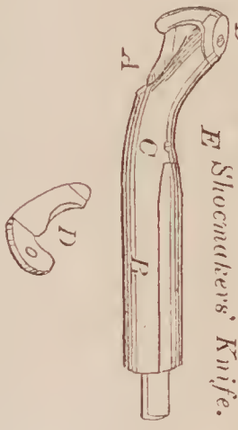


73459—L. H. Olmsted—*Lubricating Bearing for Machinery.*

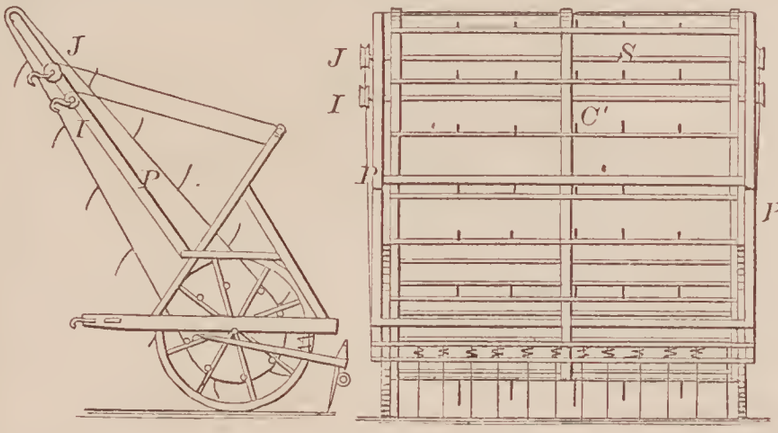


73461—L. Raymond—*Making Barrels.*

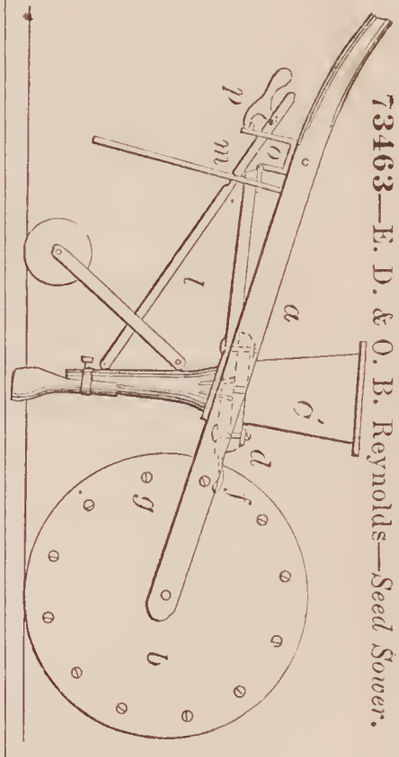
73462—J. Reist—*E Shoemakers' Knife.*



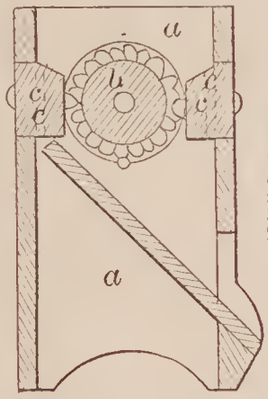
73460—C. Plaisted—*Hay Raker and Loader.*



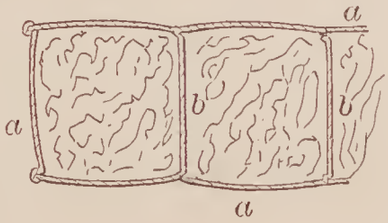
73463—E. D. & O. B. Reynolds—*Seed Sower.*



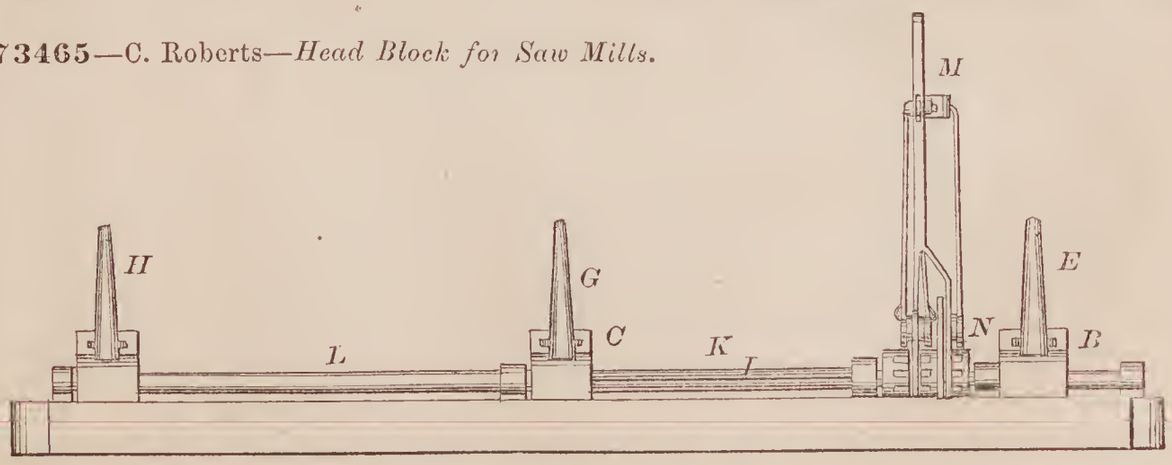
73464—N. Richardson—*Meat Cutter.*



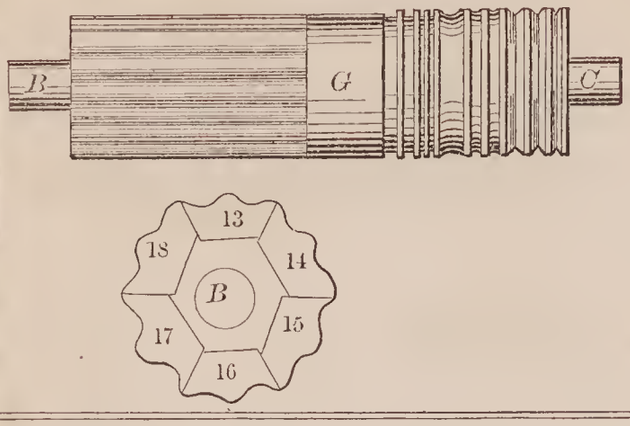
73466—G. Schott—*Mattress.*



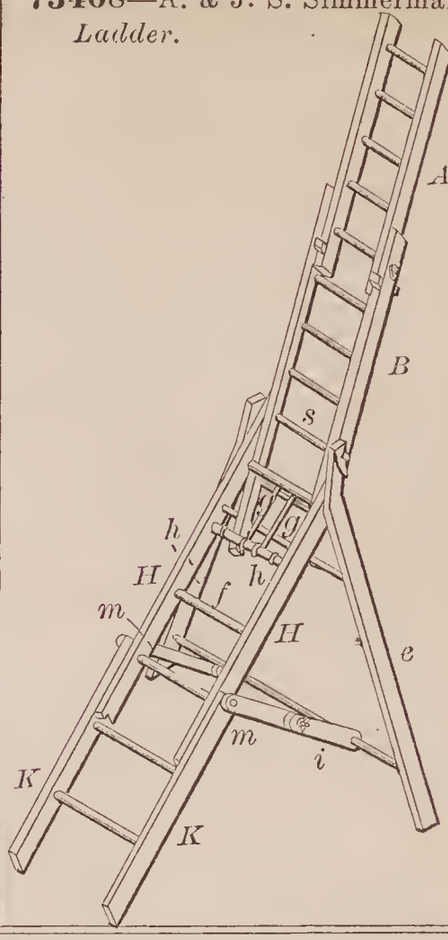
73465—C. Roberts—*Head Block for Saw Mills.*



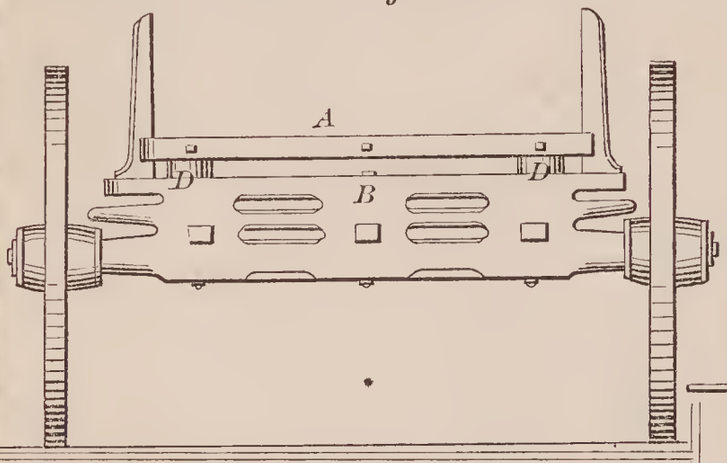
73467—S. J. Seely—*Iron Roll.*



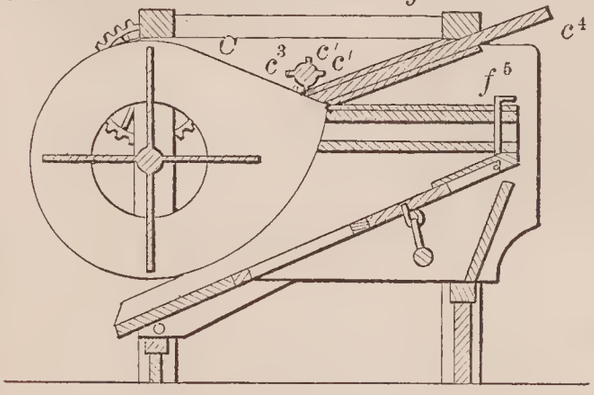
73468—A. & J. S. Simmerman—*Ladder.*



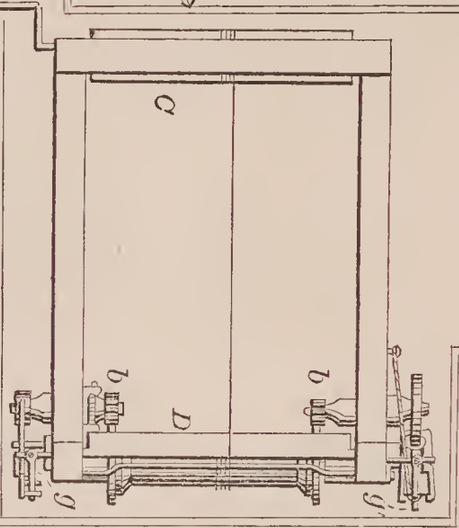
73471—C. Stebbins—*Wagon Bolster.*



73469—A. W. Smith—*Fanning Mill.*

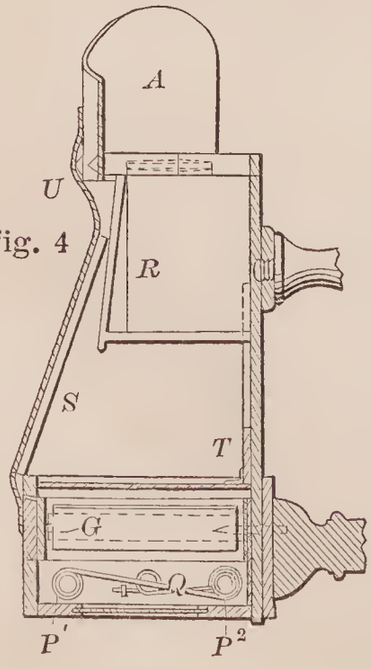


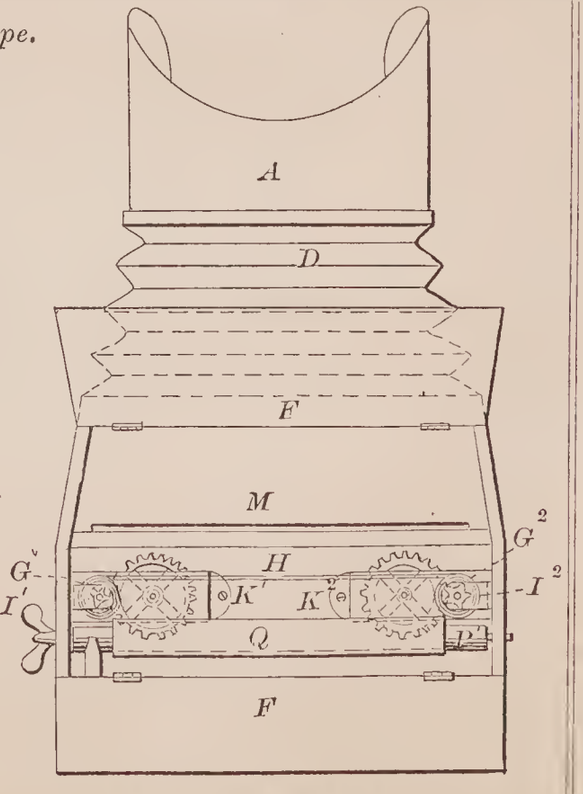
73470—T. S. Smith—*Let-off for Looms.*



73472—J. W. Storrs—*Stereoscope.*

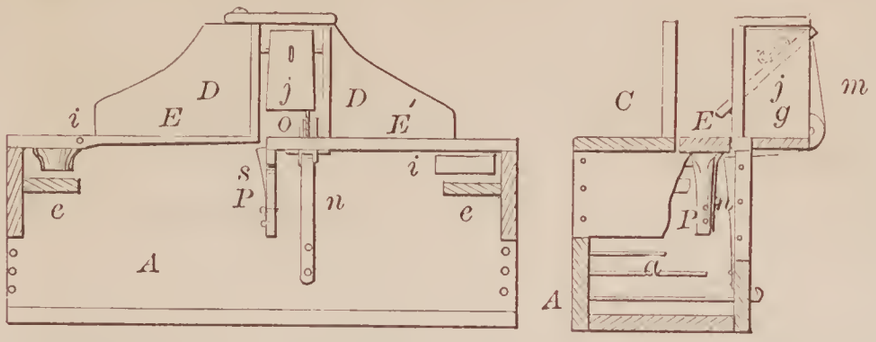
Fig. 4



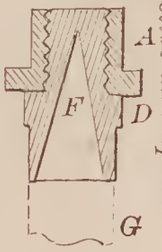


73474—E. Sweet—*Tonging for Hay Loading Machines.*

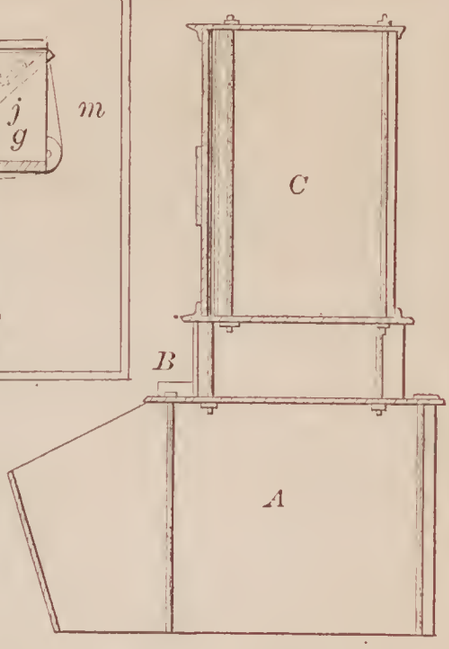
73475—N. S. Thompson—*Animal Trap.*



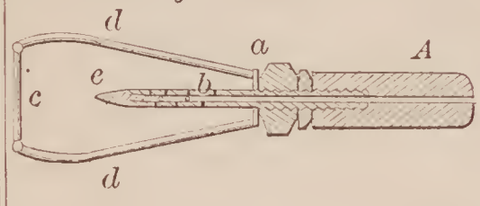
73476—A. N. Towne—*Felloe and Spoke.*



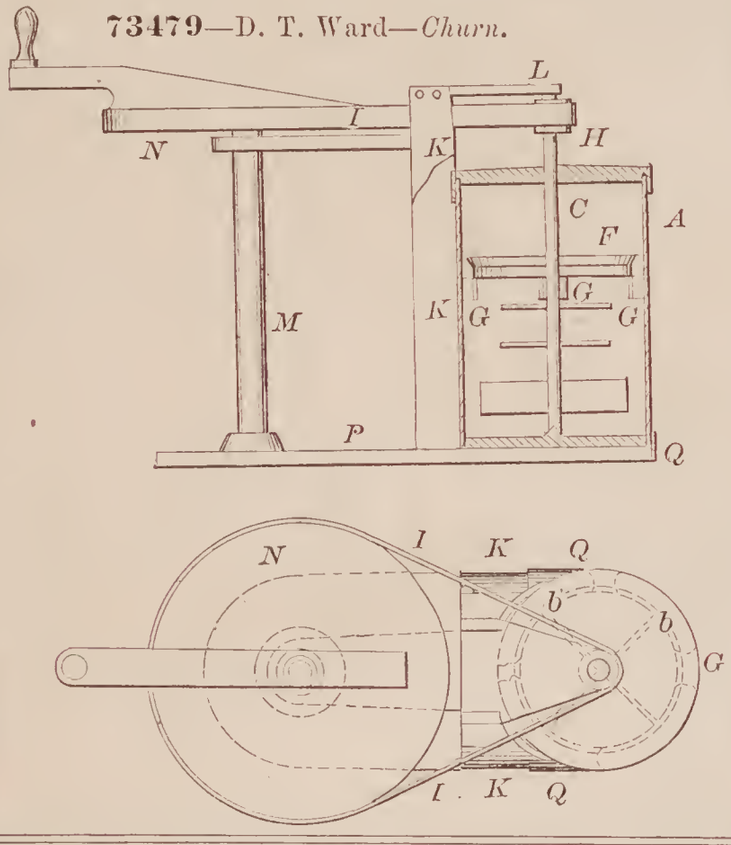
73477—A. N. Towne—*Coal Box Stove.*



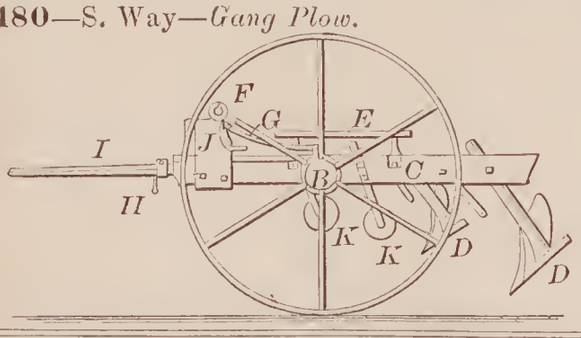
73478—W. K. Vanderslice, Jr.—*Segar Holder.*



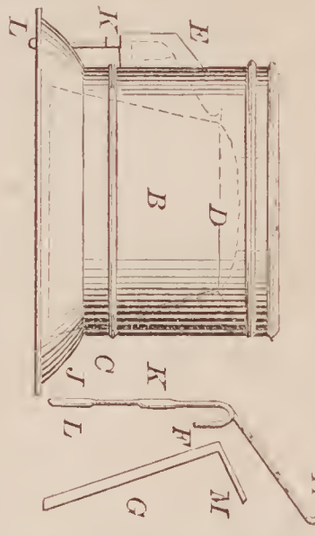
73479—D. T. Ward—*Churn.*



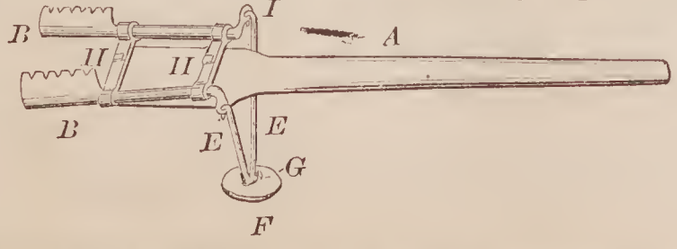
73480—S. Way—*Gang Plow.*



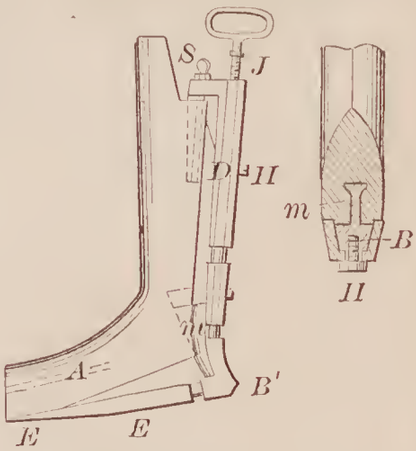
73481—Wentworth & Clark—*Lantern.*



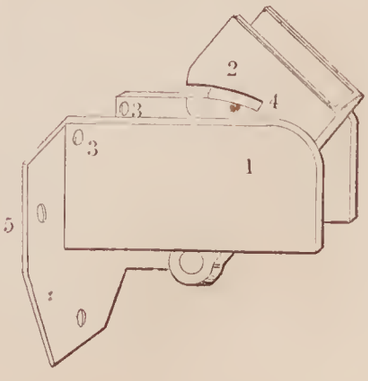
73482—J. R. Woodworth—*For Pulling Hop Poles.*



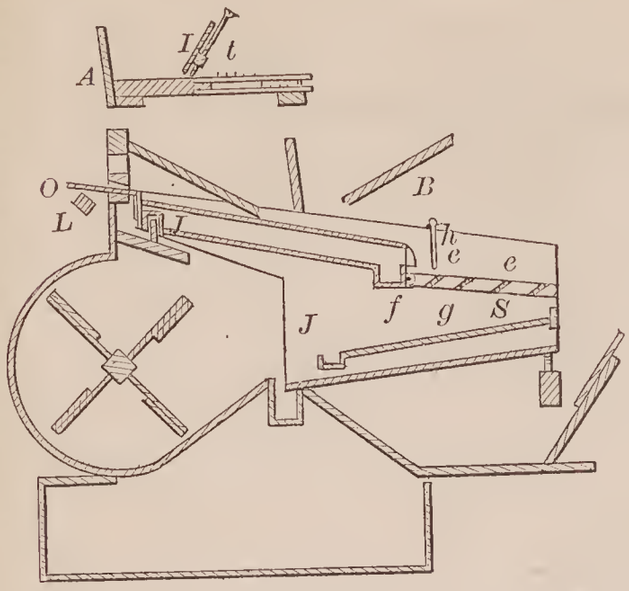
73483—H. Wright—*Boot Crimp.*

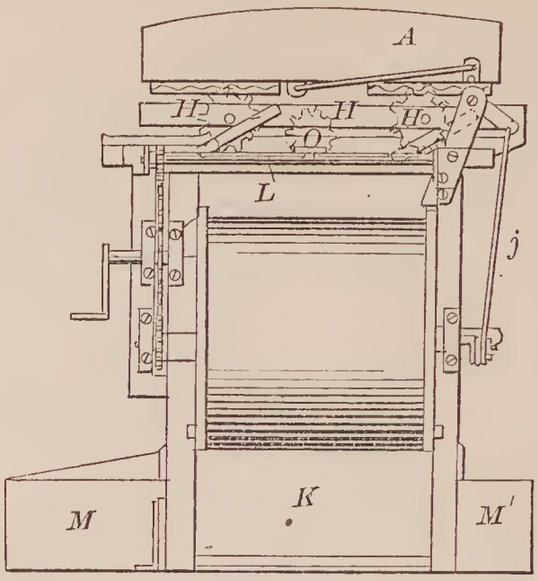


73484—M. Adams—*Chock for Whale Boats.*

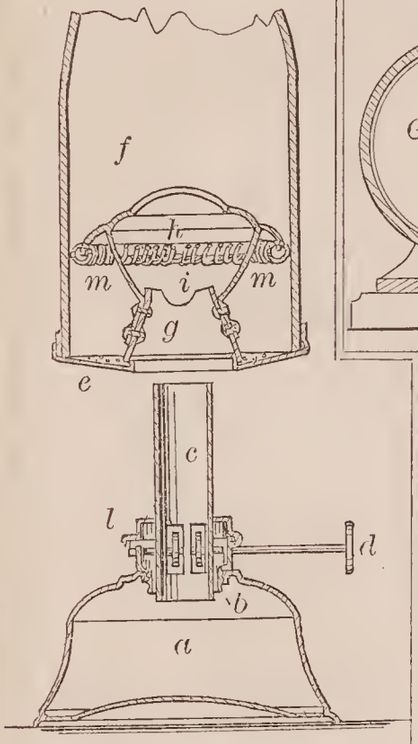


73485—S. Adams—*Winnowing Mill.*

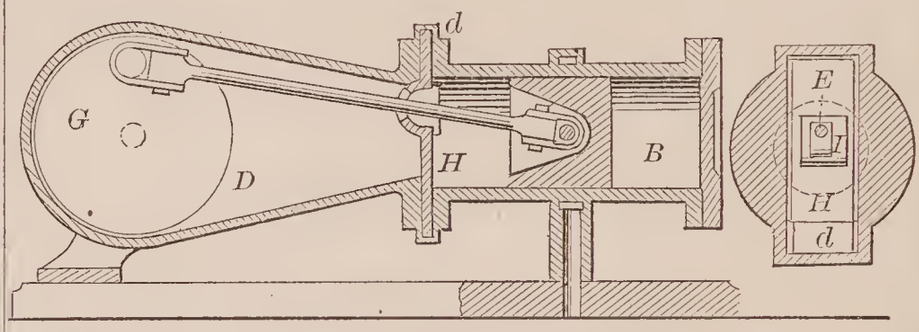




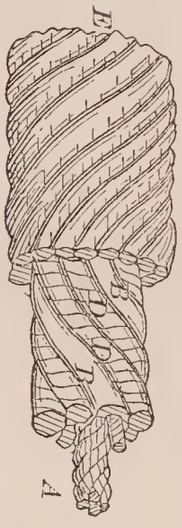
73488—L. J. Atwood—*Lamp.*



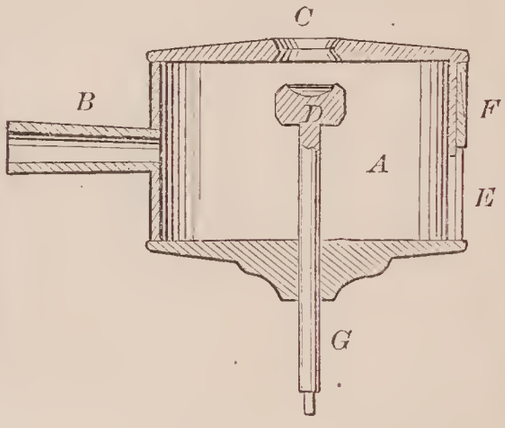
73489—H. Bailey—*Steam Engine.*



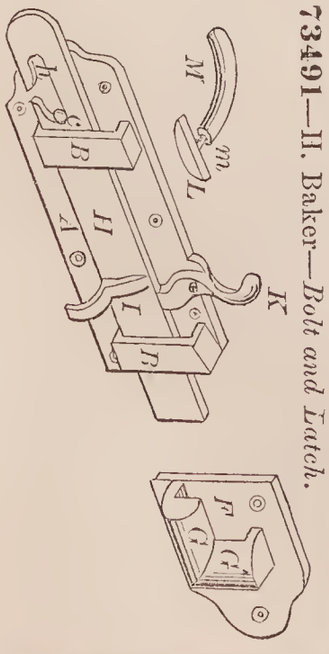
73487—J. L. Arman—*Electric Cable.*



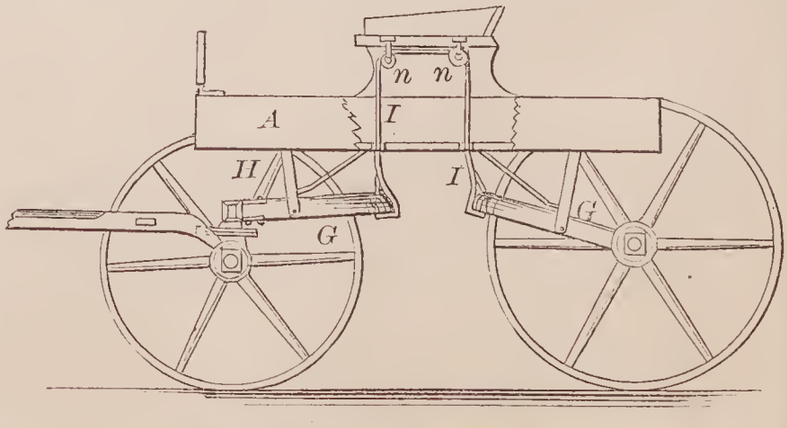
73490—L. M. Bailey—*Tuyere Iron.*



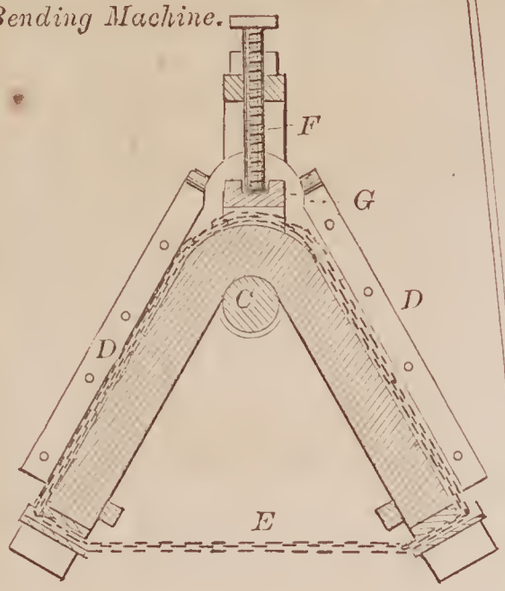
73491—H. Baker—*Bolt and Latch.*



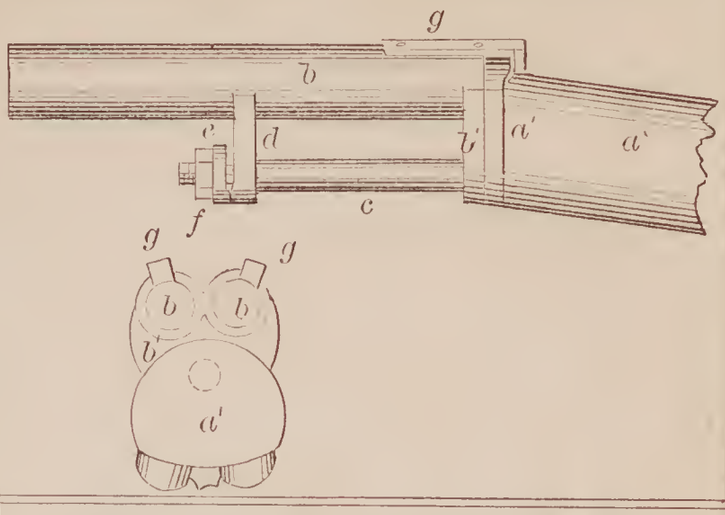
73492—Blair & Gladding—*For Hanging Carriage Bodies.*



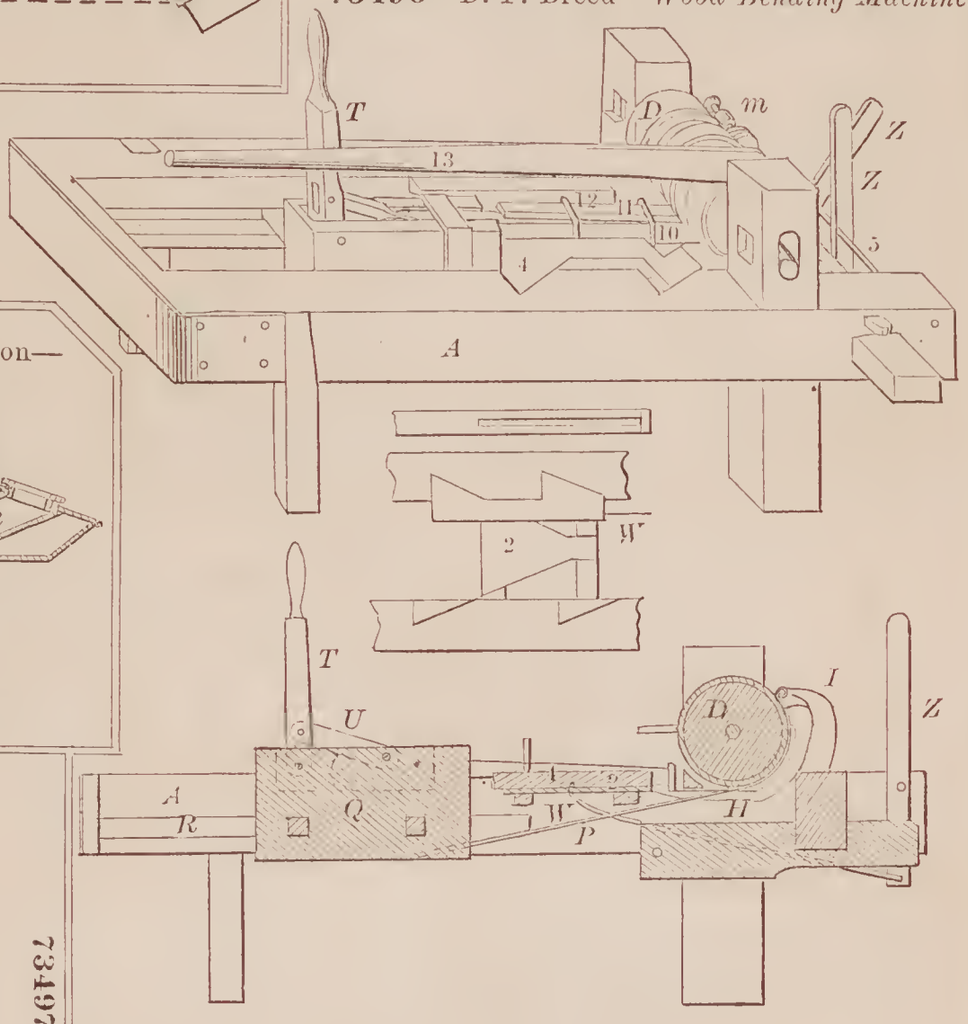
73493—I. W. Bowers—*Wood Bending Machine.*



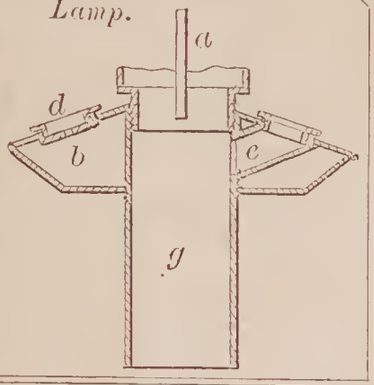
73494—Boyd & Shelton—*Breech-Loading Fire Arm.*



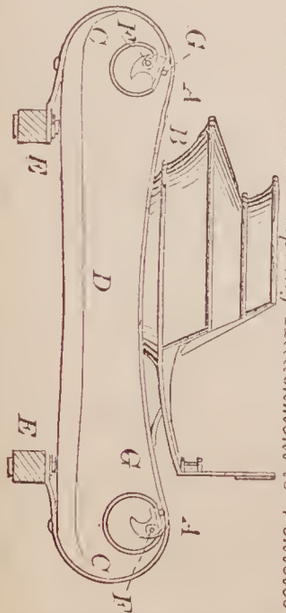
73496—D. F. Breed—*Wood Bending Machine.*



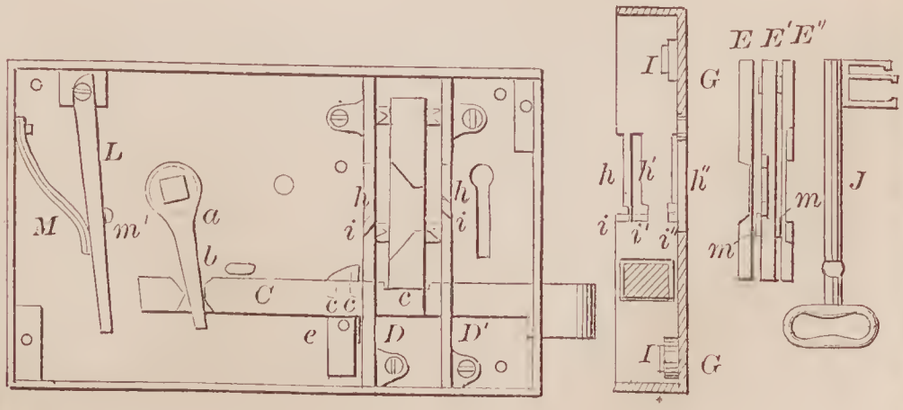
73495—O. Boynton—*Lamp.*



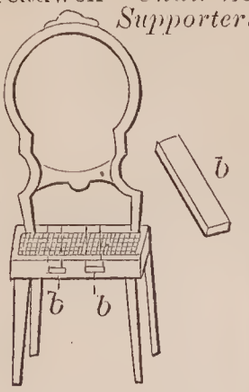
73497—E. C. Brooks—*Spring Attachment to Vehicles.*



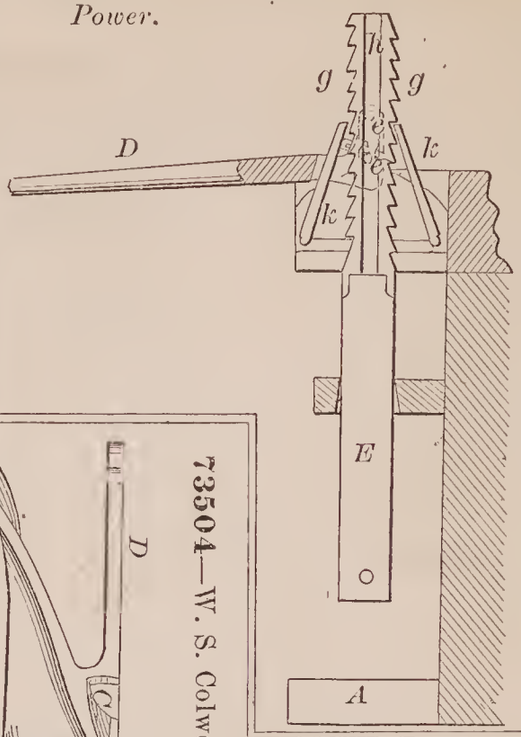
73498—C. Brown—*Knob Latch and Knob.*



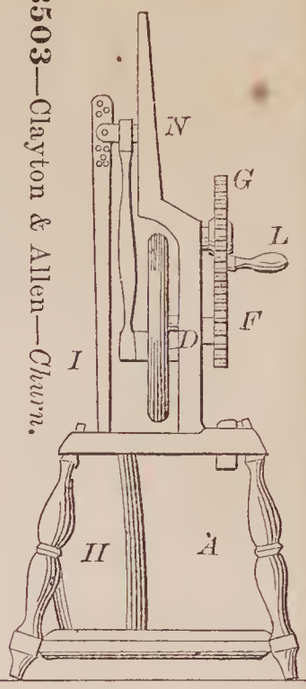
73499—Butterfield & Treadwell—*Chair Seat Supporter.*



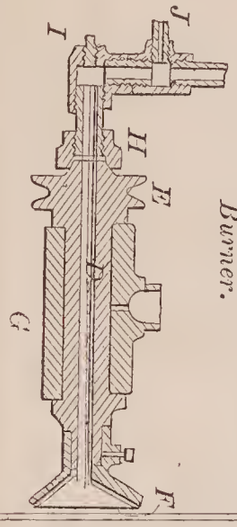
73500—N. Carpenter—*Hop Press Power.*



73503—Clayton & Allen—*Churn.*

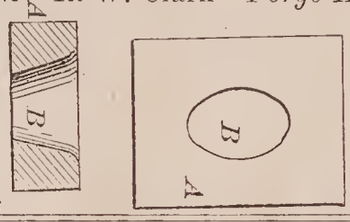


73506—F. Cook—*Hydro-Carbon Burner.*

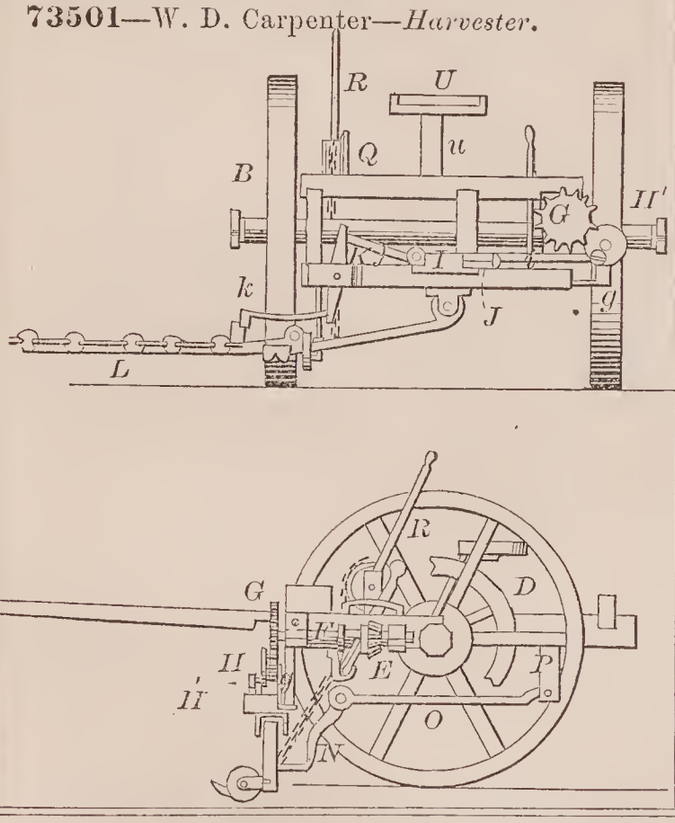


73504—W. S. Colwell—*Plow.*

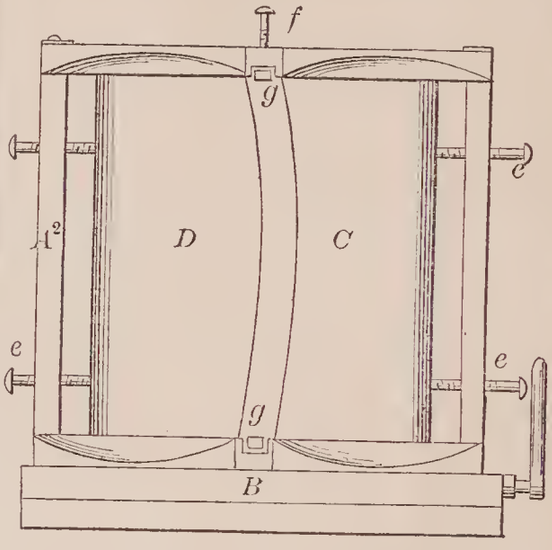
73502—R. W. Clark—*Forge Hearth.*

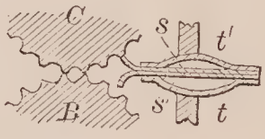


73501—W. D. Carpenter—*Harvester.*

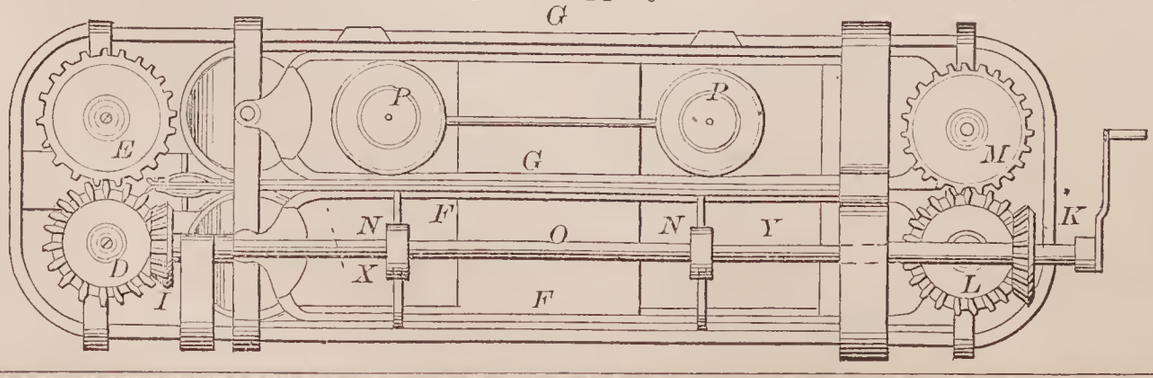


73505—W. S. Colwell—*Stave Machine.*

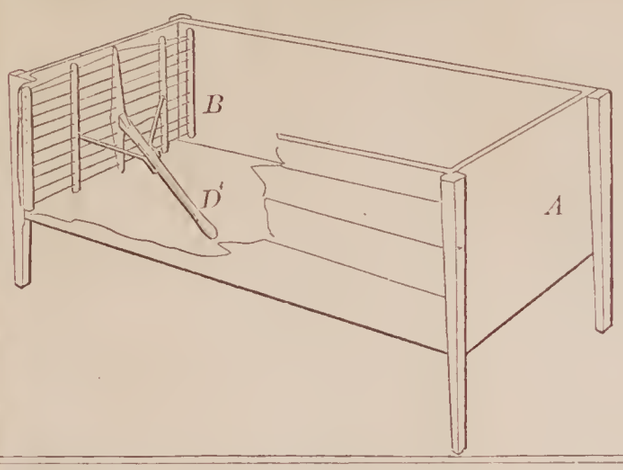




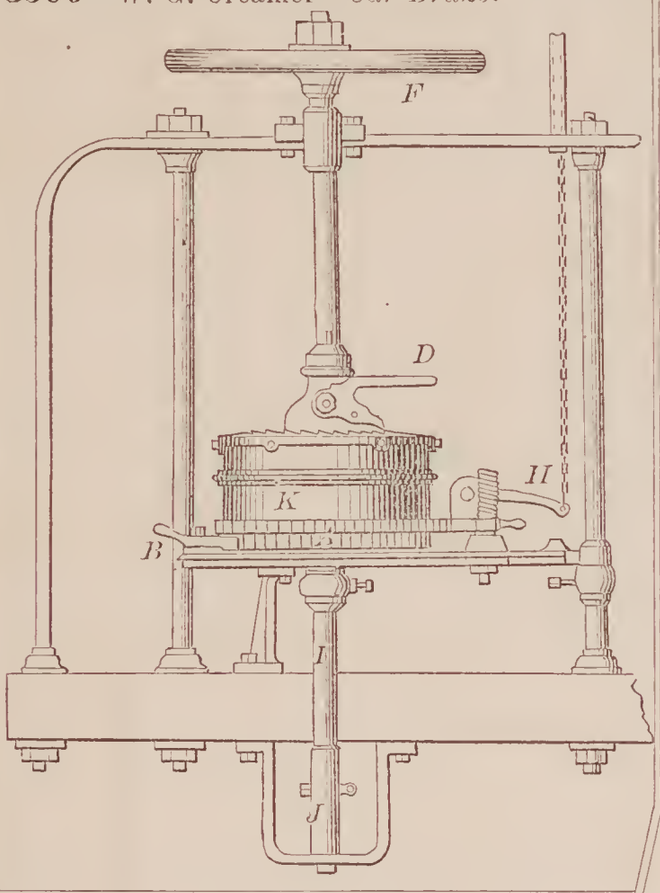
73507—J. F. Cranston—*For Making and Dipping Matches.*



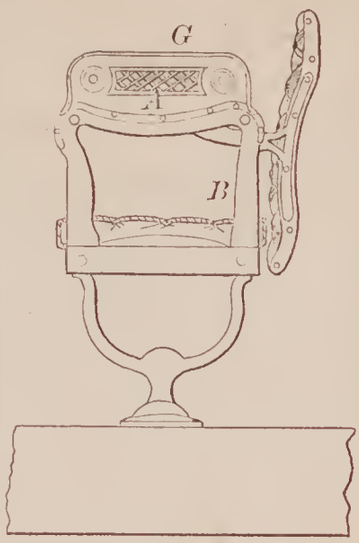
73508—P. Crary—*Curd Breaker.*



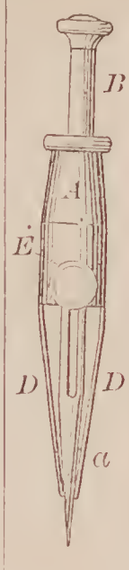
73509—W. G. Creamer—*Car Braks.*



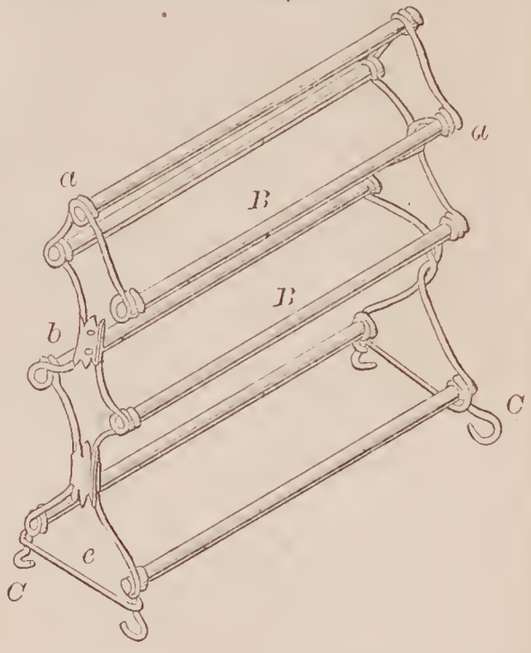
73510—W. G. Creamer—*Car Seat.*



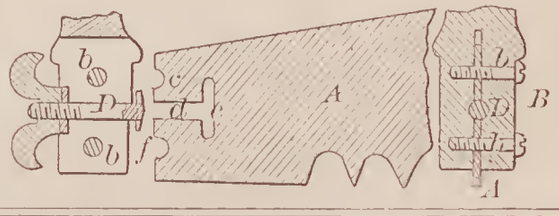
73511—A. C. Crosby—*Jeweling Watches*



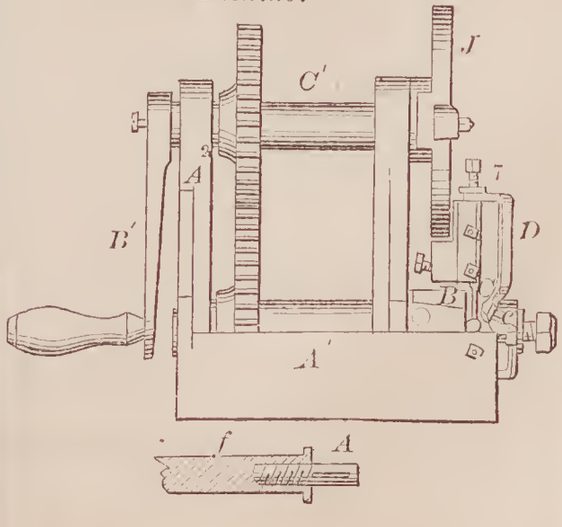
73517—E. E. Everett—*Towel Rack.*



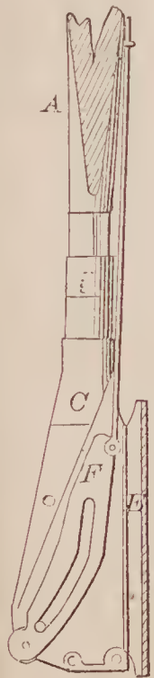
73516—T. S. Disston—*Cross Cut Saw.*



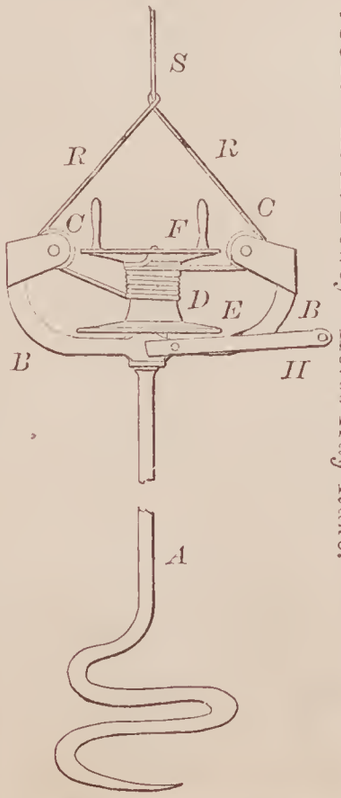
73518—Fitzpatrick & Schinneller—*Chain Machine.*



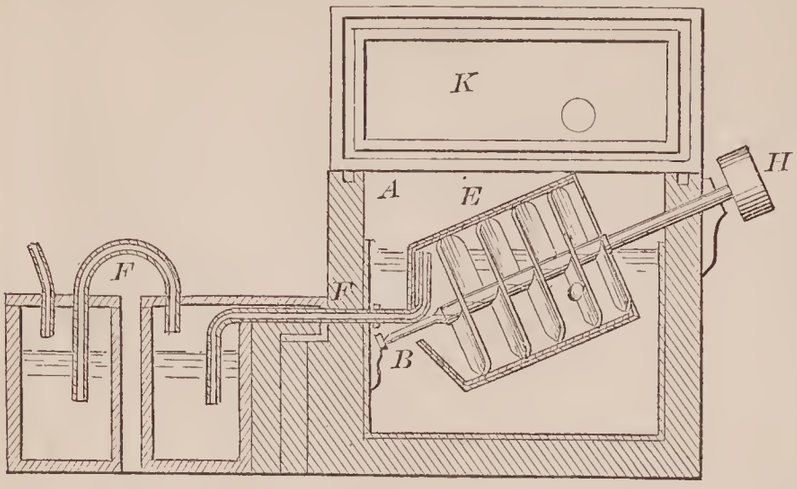
73513—J. D. Dale—*For Discovering Fissures in Wells.*



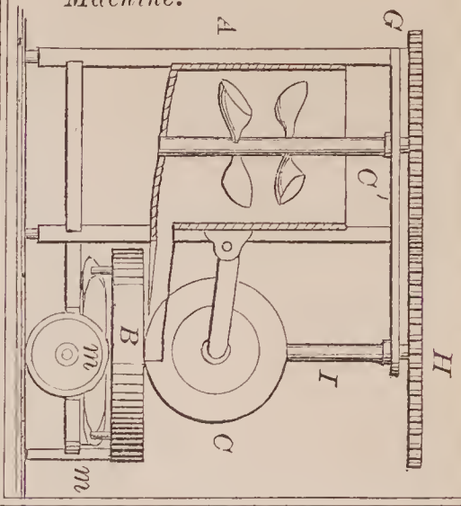
73515—H. E. Dewey—*Horse Hay Rake.*



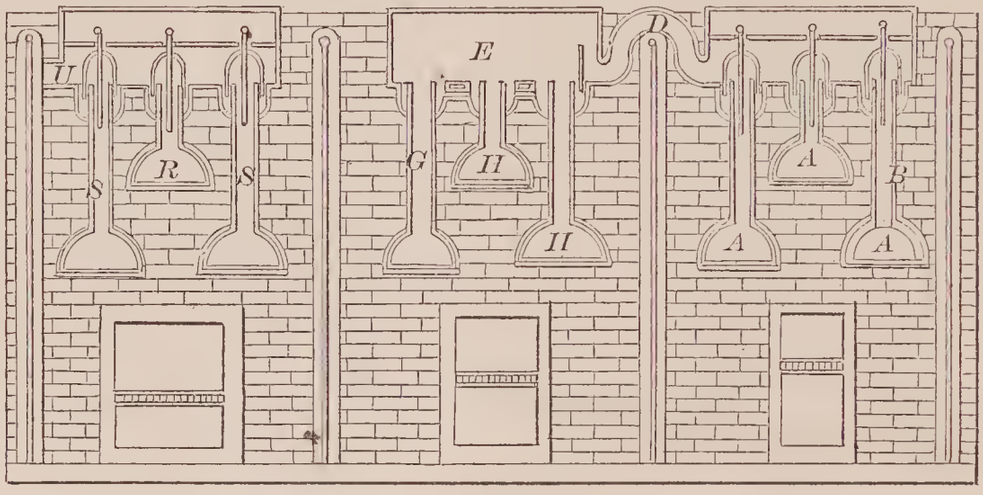
73519—F. Formhals—*For Collecting Metallic Vapors.*

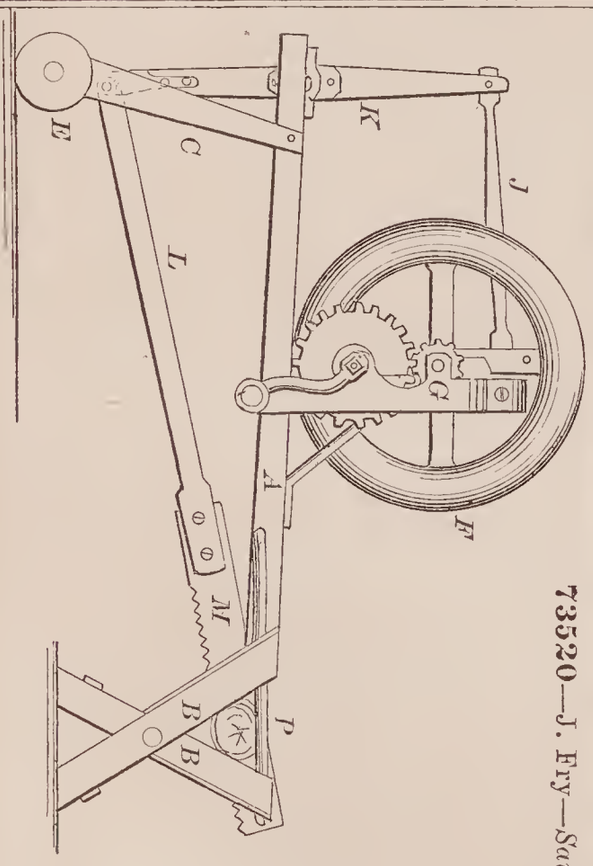


73522—R. M. Gano—*Brick Machine.*



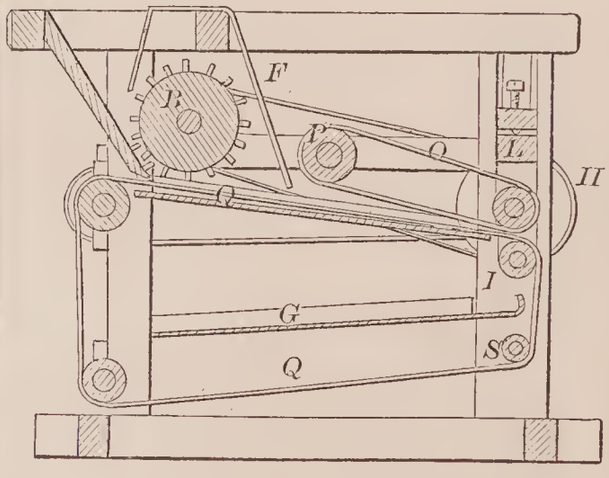
73521—R. M. & A. R. Fryer—*Manufacture of Illuminating Gas*



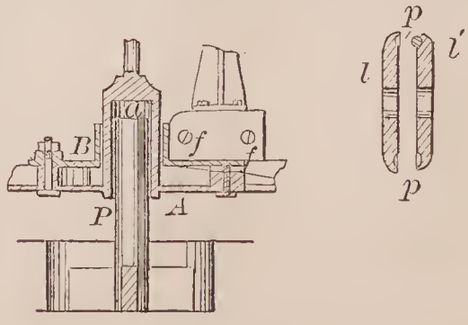


73520—J. Fry—*Sawing Machine.*

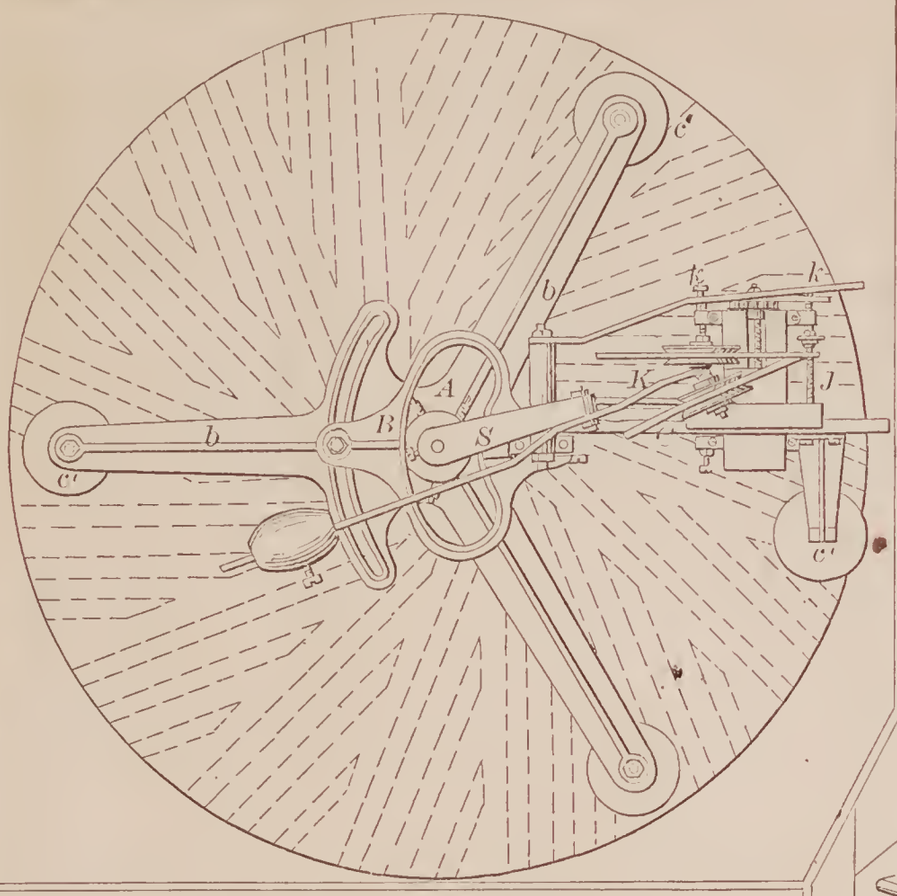
73523—L. Gebhart—*Cider Mill.*



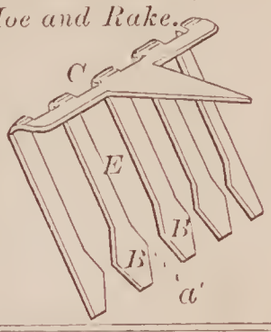
73524—S. Golay—*Dressing Mill Stone.*



73524—*Continued.*

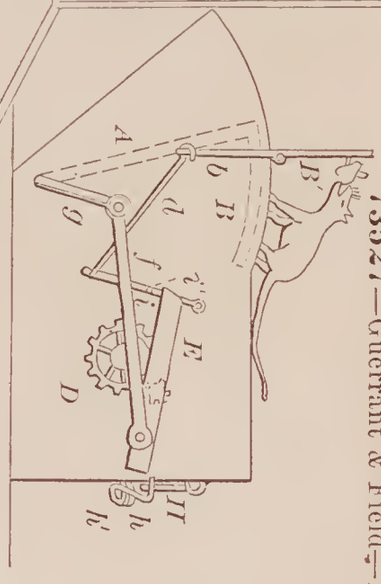


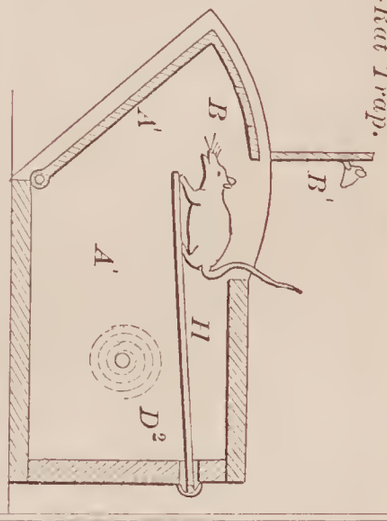
73525—
R. H. Gordon, Sr.—
Hoe and Rake.



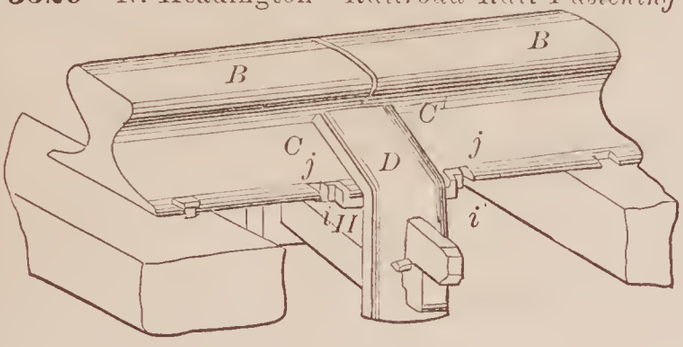
73526—Goss & Rais—
Steel Trap.

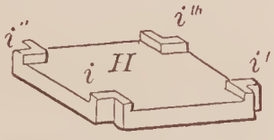
73527—Guerrant & Field—*Rat Trap.*



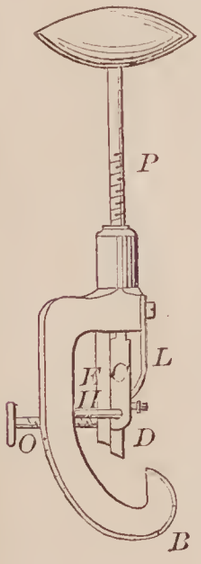


73529—N. Heading ton—*Railroad Rail Fastening*

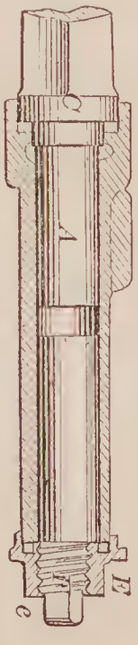




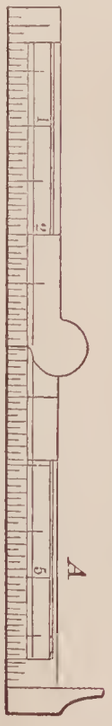
73528—D. F. Hartford—*Pipe and Rod Cutter.*



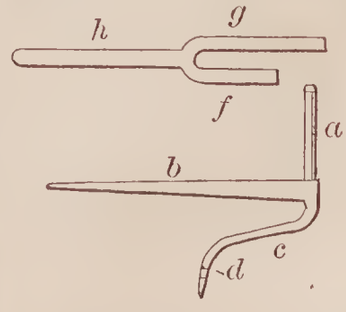
73530—W. S. Johnson—*Buggy Top.*



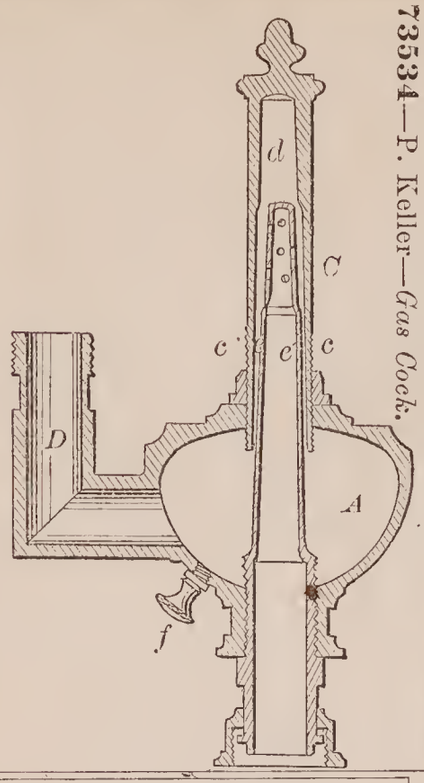
73532—W. O. Jones—*Rule and Square.*



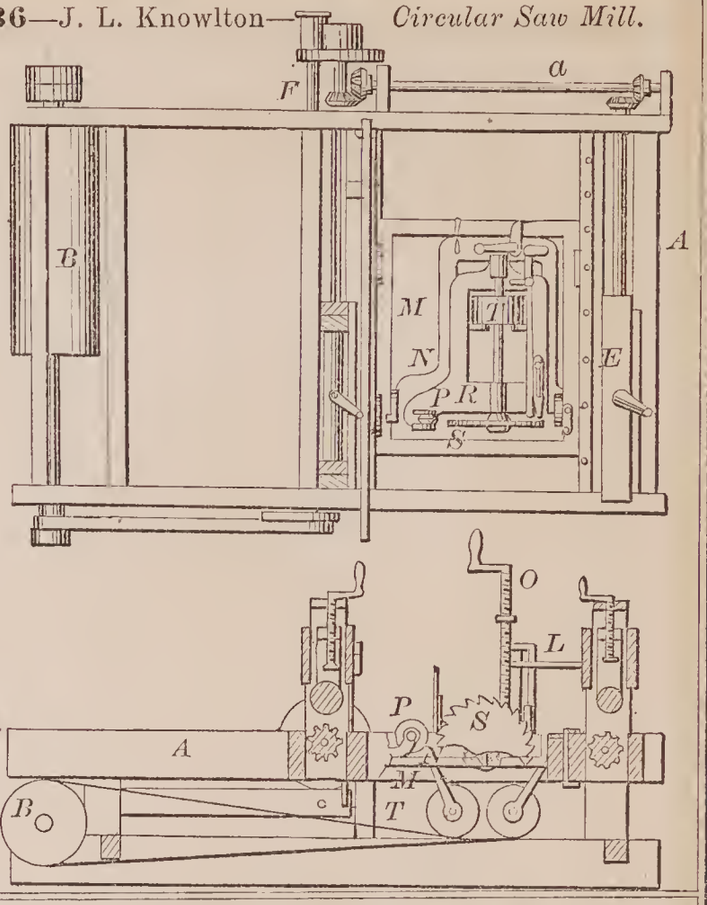
73533—C. Kaulbeck—
Manufacture of Hinge Hooks.



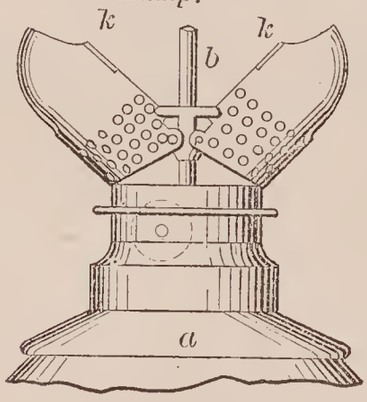
73534—P. Keller—*Gas Cock.*



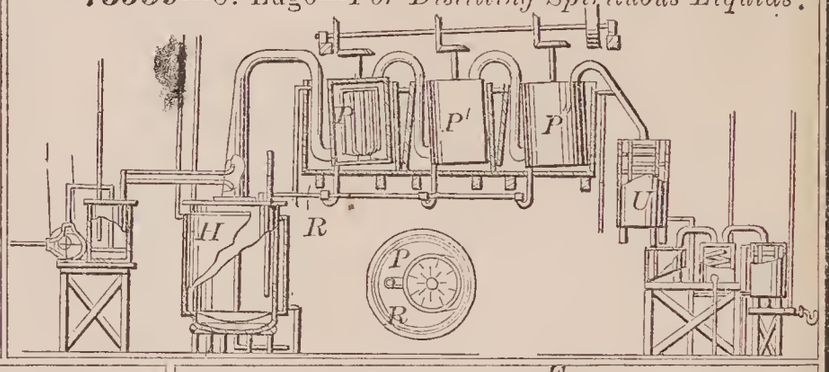
73536—J. L. Knowlton—*Circular Saw Mill.*



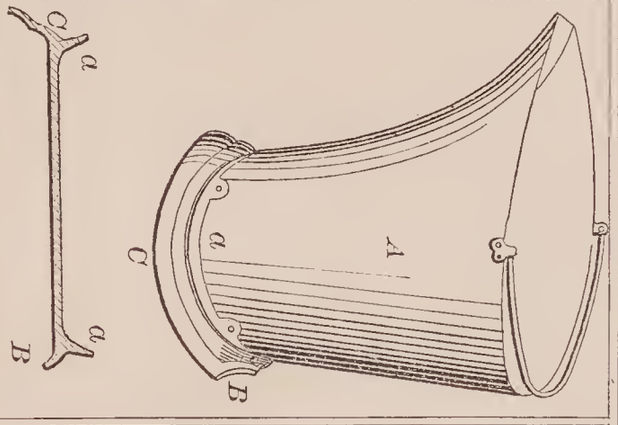
73538—Lock & Weeden—*Lamp.*



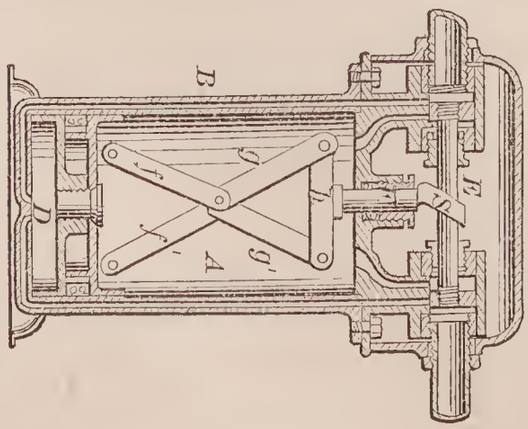
73539—O. Lugo—*For Distilling Spirituous Liquids.*



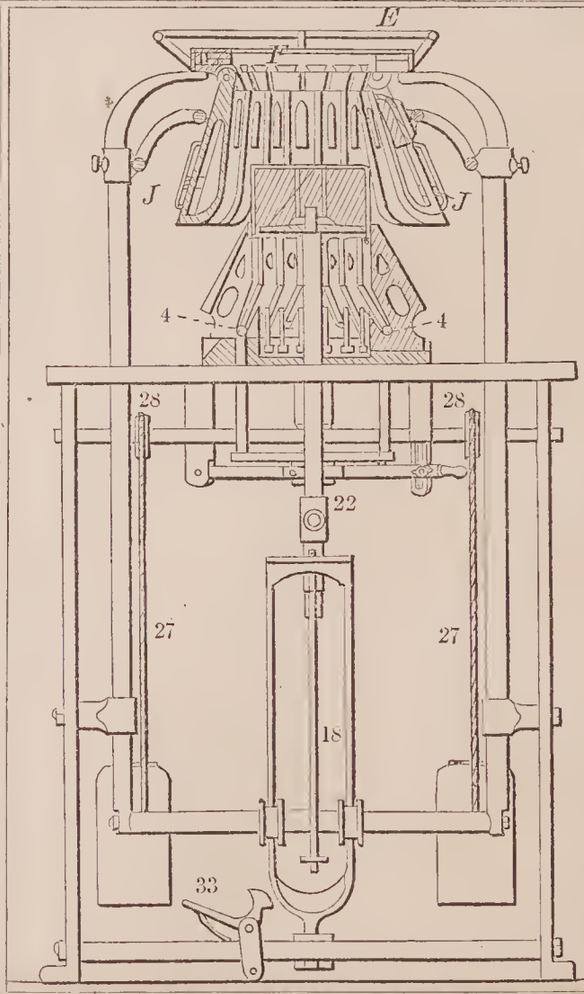
73535—E. W. Kimball—*Coal Hod Bottom.*



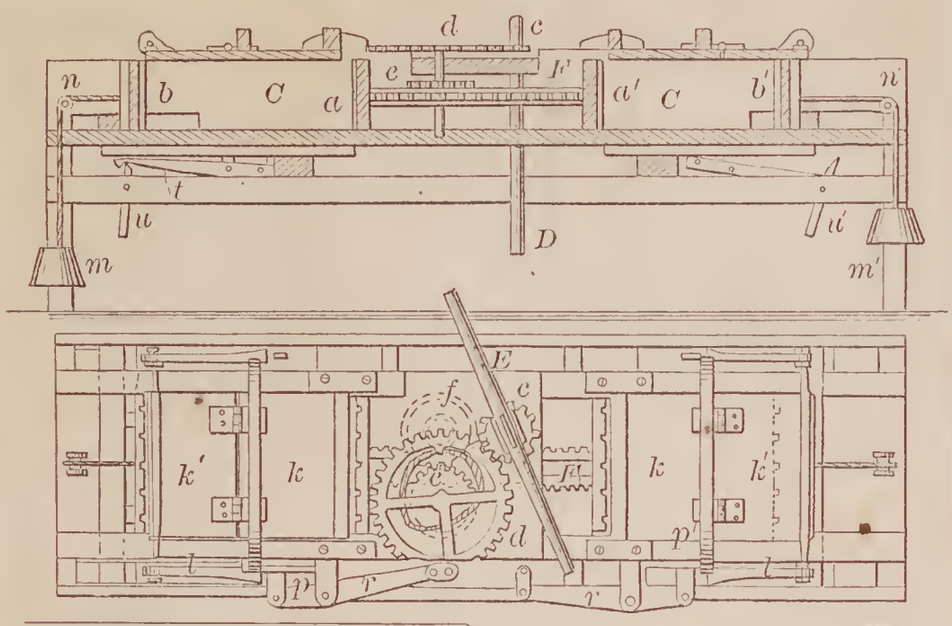
73537—W. Livingstone—*Water Meter.*

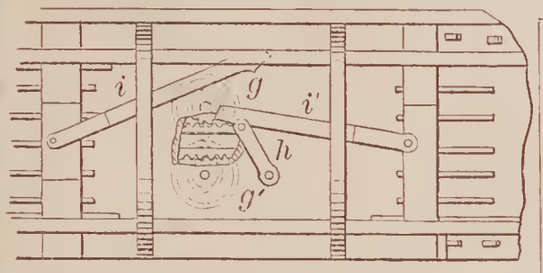


73541—Manderville & Penè—*For Blocking and Stretching Hats.*

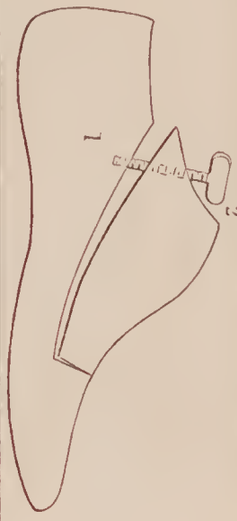


73542—Maxey & Mason—*Hay and Cotton Press.*

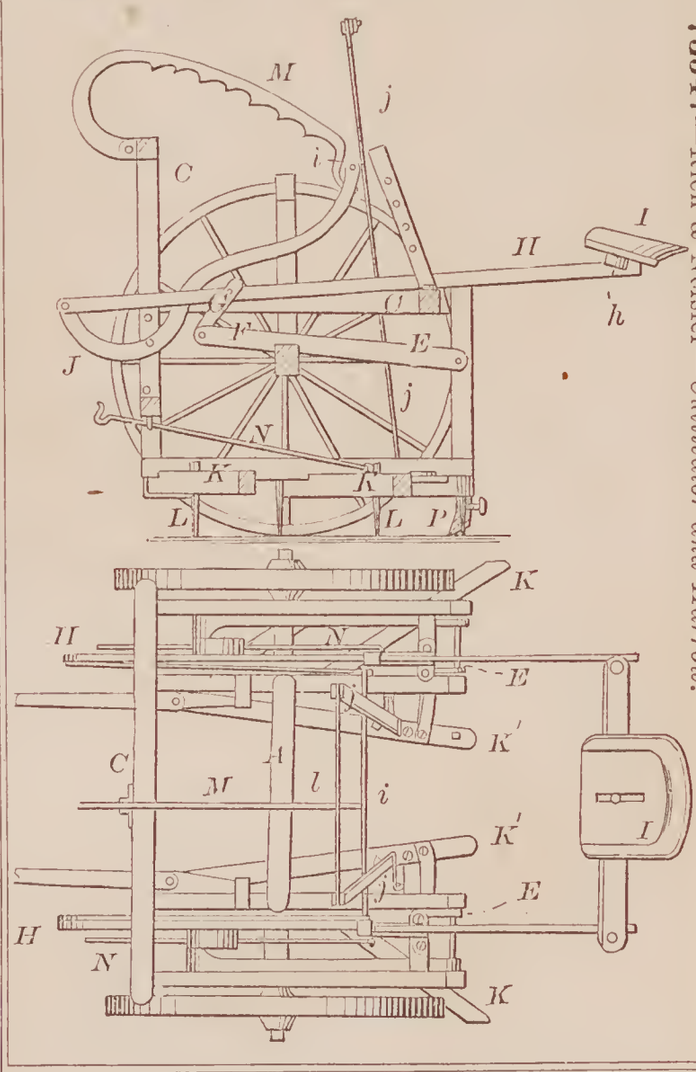




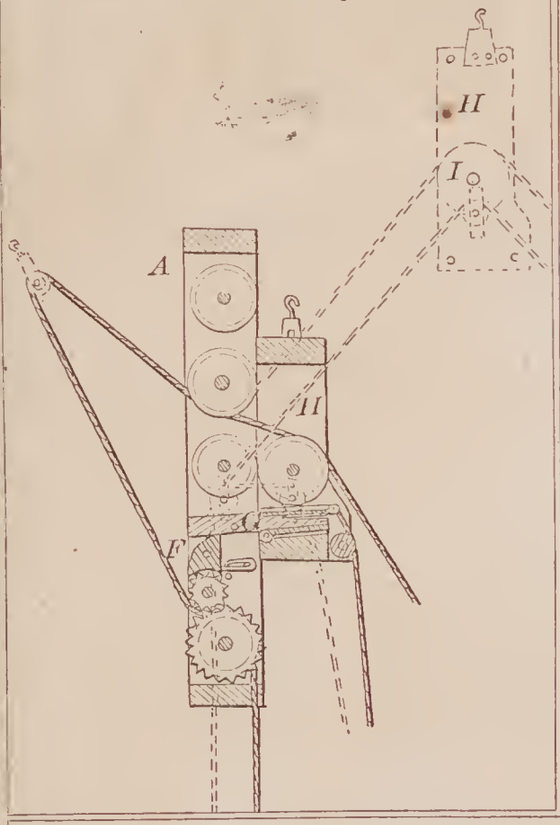
73546—C. C. Pease—*Instep Stretcher.*



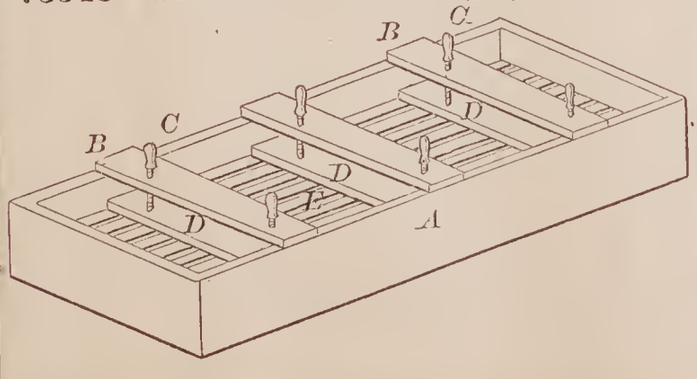
73547—Rich & Neisler—*Cultivator and Harrow.*



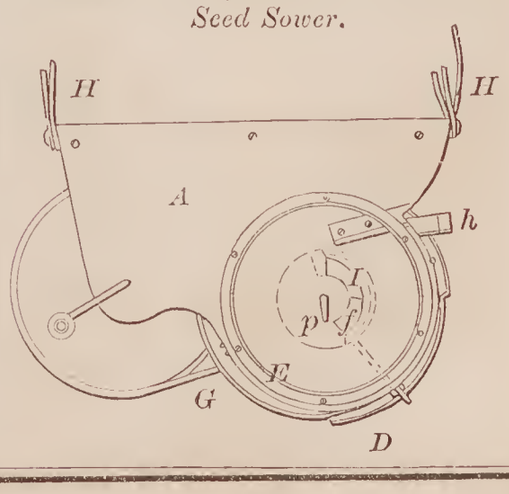
73544—A. Mott—*Hay Elevator.*



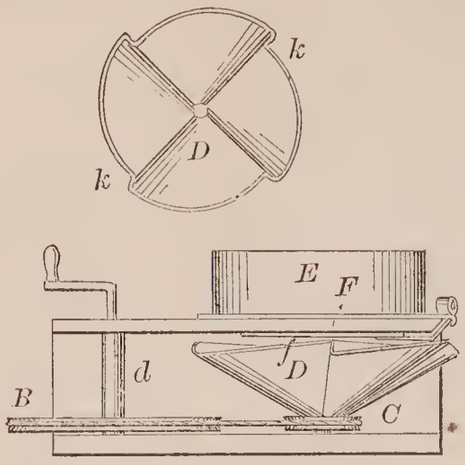
73543—W. E. Michael—*For Stuffing Seats.*



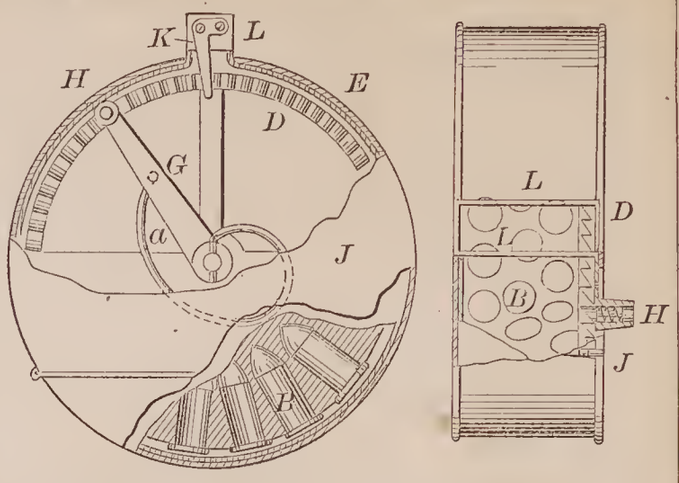
73548—Rowe, Mitchell & Hamill—*Seed Sower.*



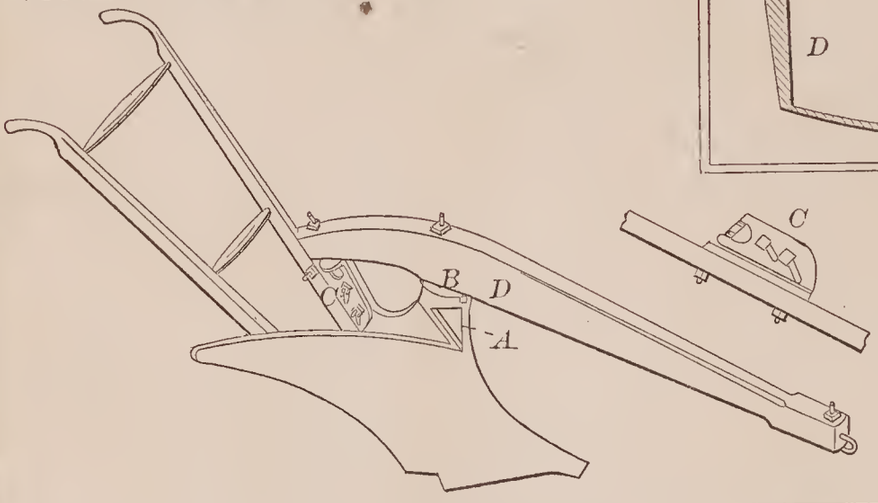
73548—*Continued.*



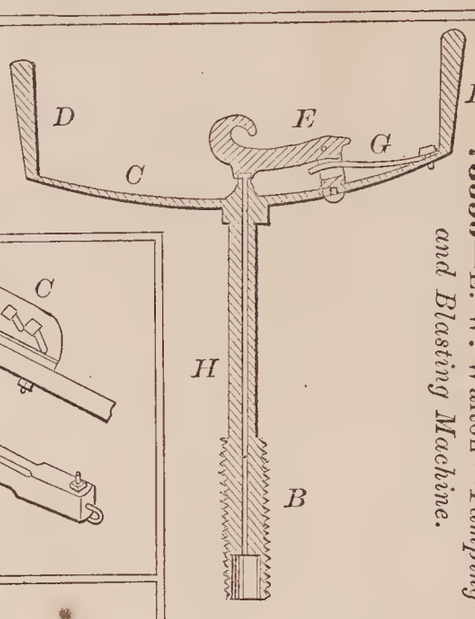
73549—P. F. Schneider—*Cartridge Box.*



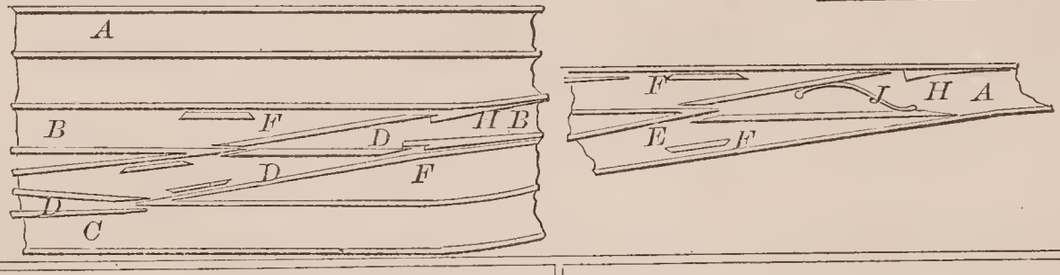
73550—Smith & Strasser—*Plow.*



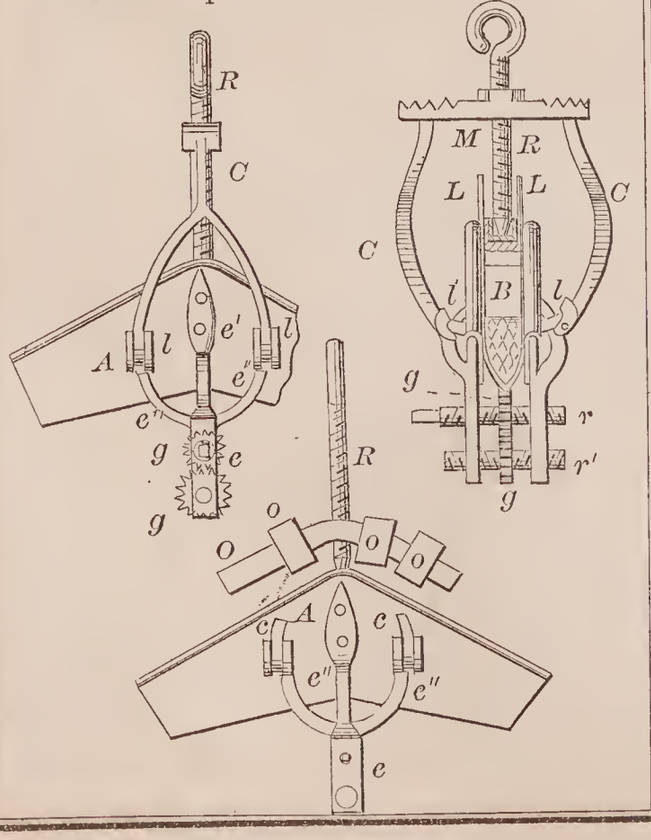
73555—E. W. Walton—*Tamping and Blasting Machine.*



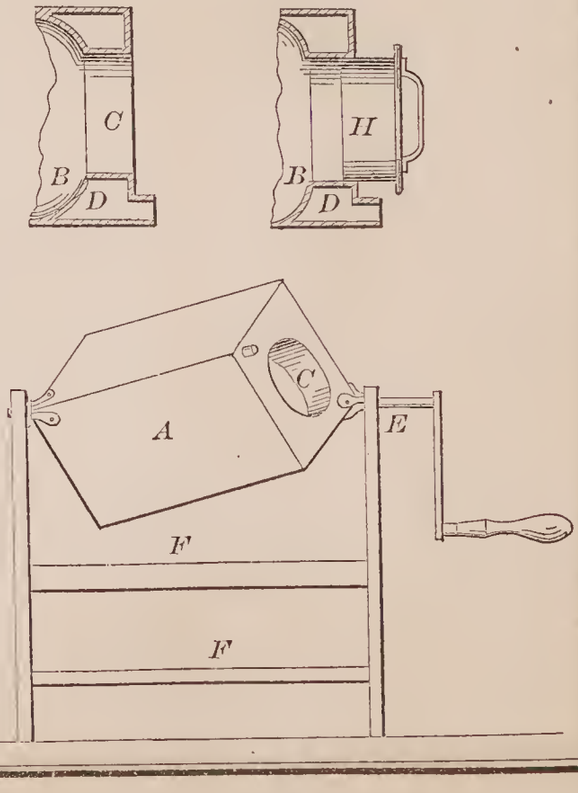
73551—Spurgin & Kirk—*Railway Switch.*



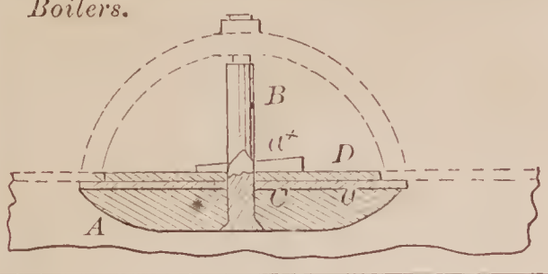
73554—Tipton & Carl—*Boot Crimp.*



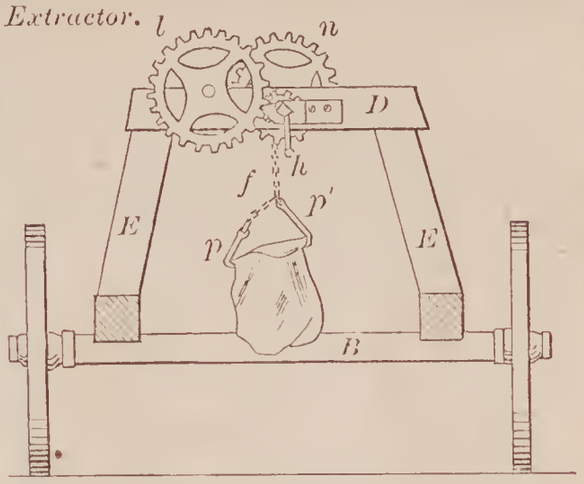
73556—S. J. Whipple—*Churn.*



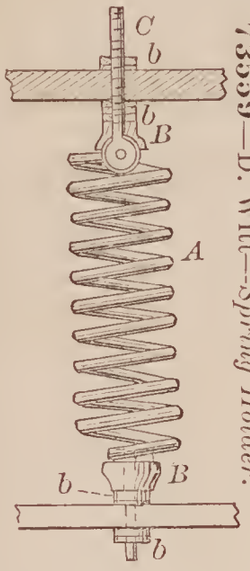
73557—G. White—*Hand Hole Joint for Boilers.*



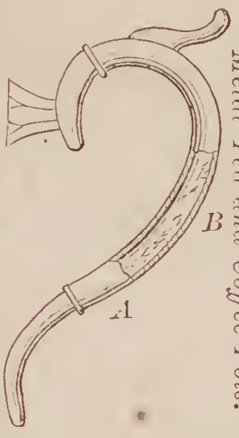
73558—Wieand & Gorr—*Stone and Stump Extractor.*



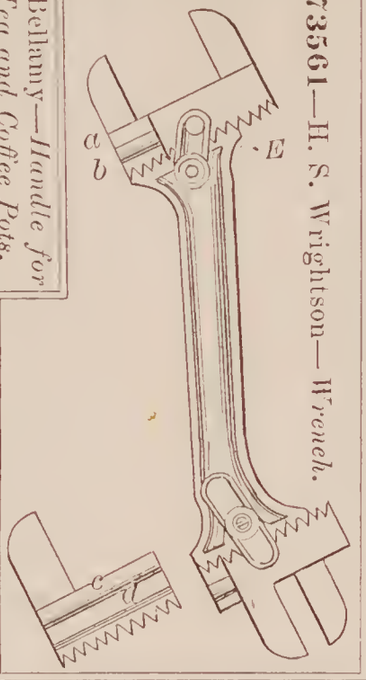
73559—D. Witt—*Spring Holder.*



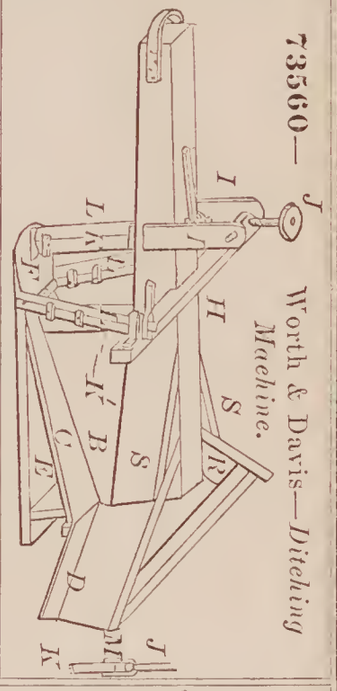
73567—W. Bellamy—*Handle for Metal Tea and Coffee Pots.*



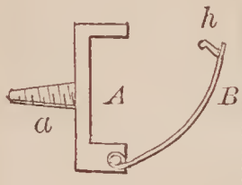
73561—H. S. Wrightson—*Wrench.*



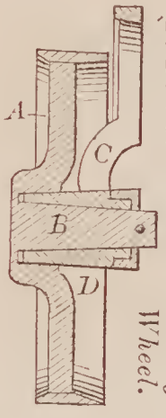
73560—Worth & Davis—*Ditching Machine.*



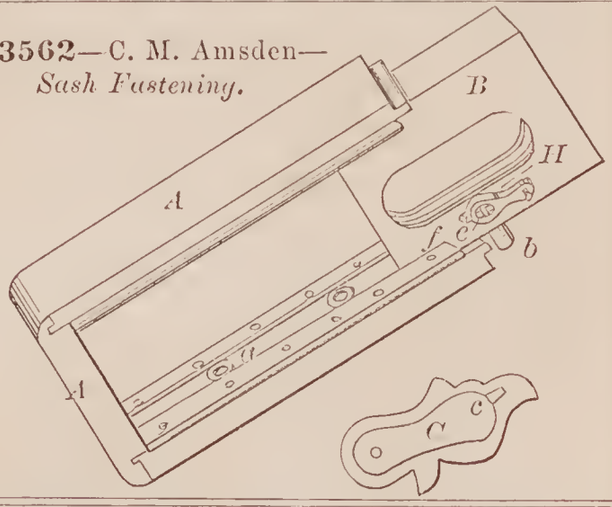
73563—W. R. Anderson—*Stair Rod Fastener.*



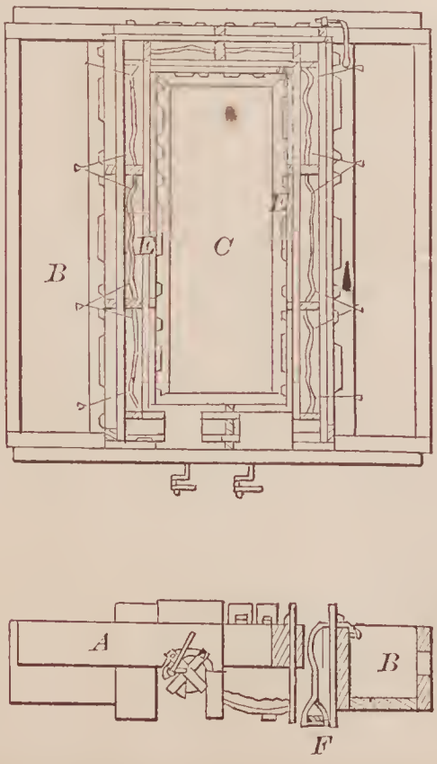
73564—P. D. Beckwith—*Plow Gauge Wheel.*



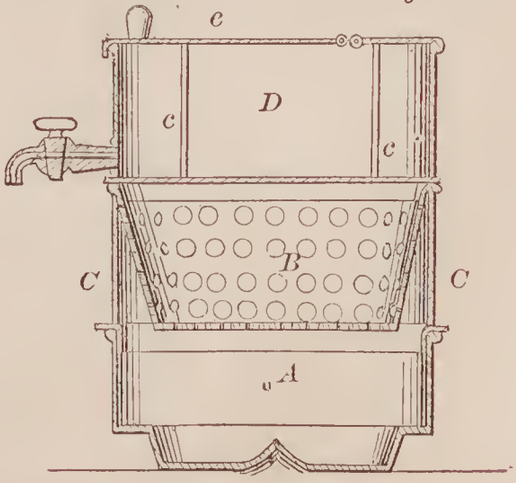
73562—C. M. Amsden—*Sash Fastening.*



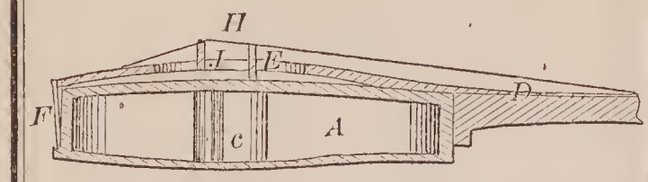
73566—E. Bell—*Coffer Dam.*



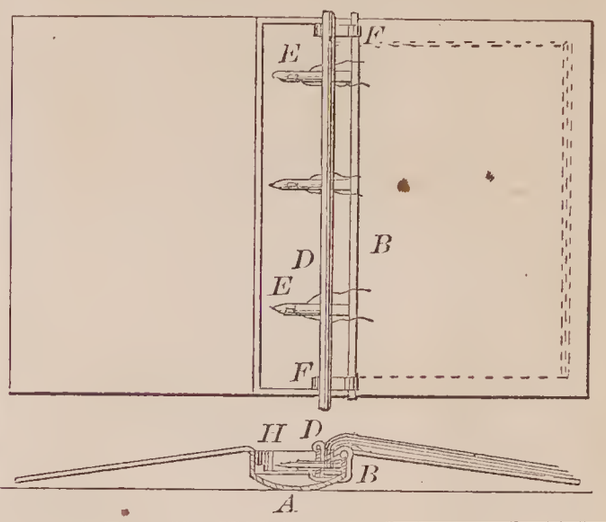
73568—W. H. Bennett—*Culinary Vessel.*



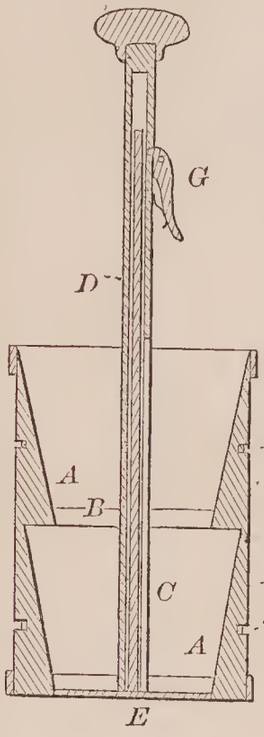
73569—B. Bishop—*Violin.*



73572—S. Brock—*Paper File.*

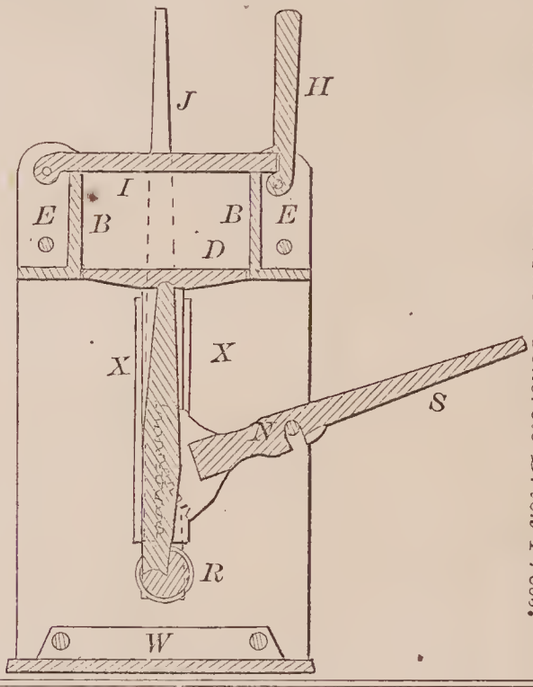


73573—A. Brooks—*For Supporting Tin Cans when being Soldered.*

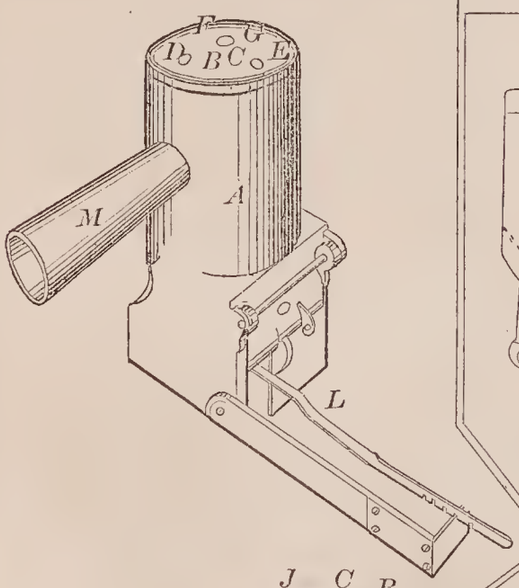


73575—C. E. Buck—*Axletree.*

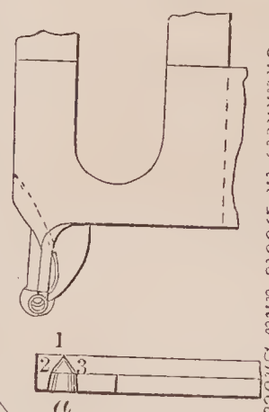
73576—T. J. Burke—*Concrete Brick Press.*



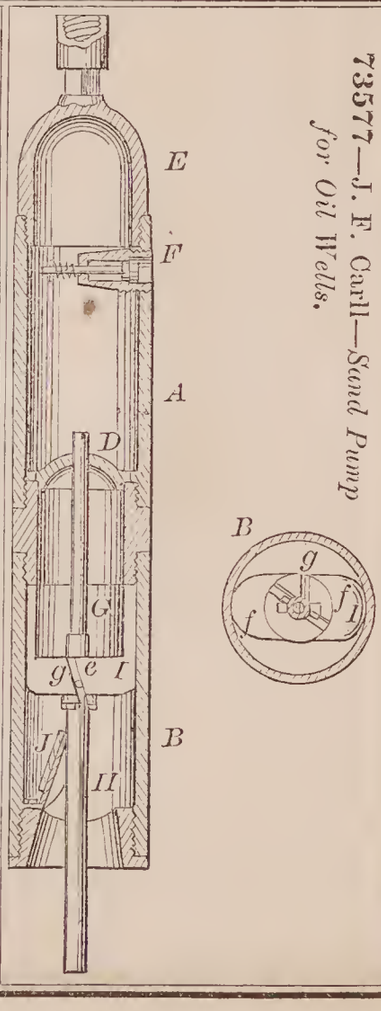
73574—J. Brown—*Tuyere Iron.*

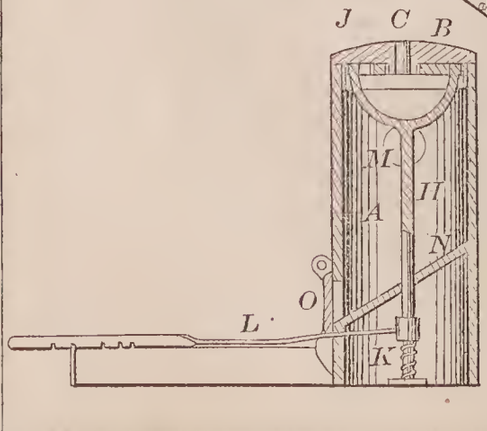


73570—L. R. Blake—*For Cutting Channels in Boots and Shoes*

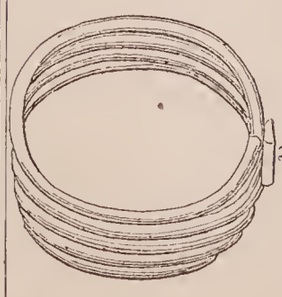


73577—J. F. Carll—*Sand Pump for Oil Wells.*

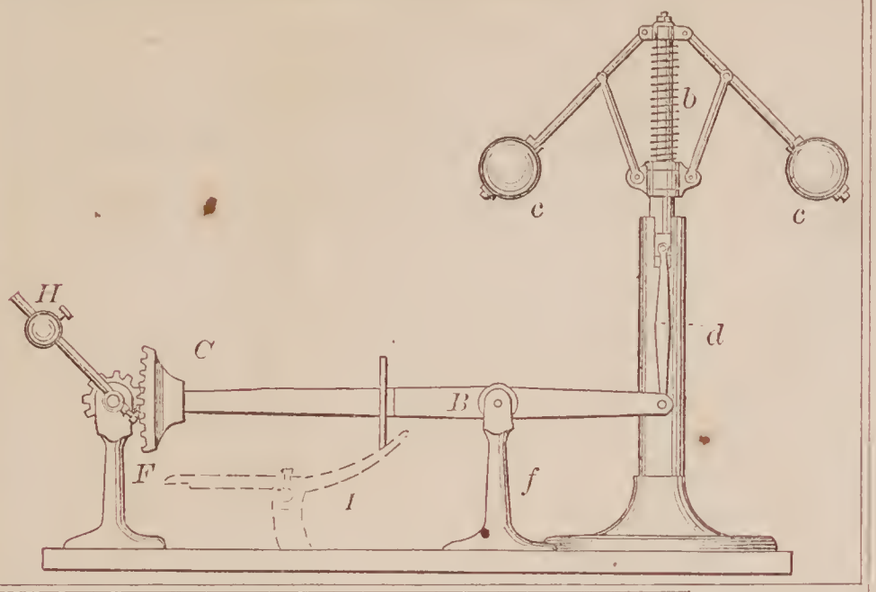




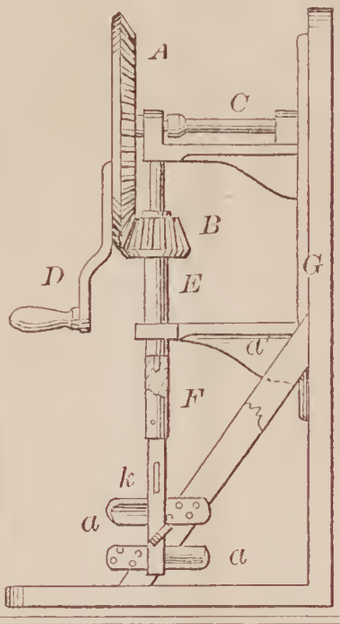
73571—L. K. Boyd—*Ring for Closing Fruit Jars.*



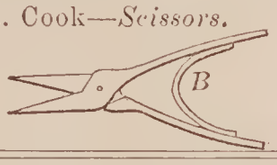
73578—W. L. Collamore—*Steam Governor.*



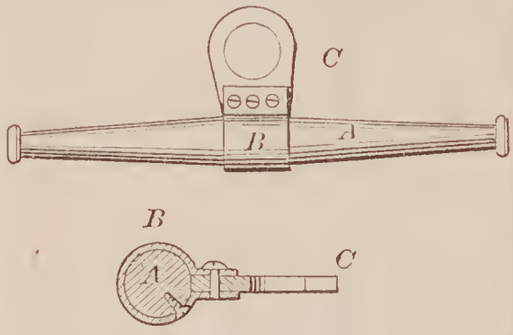
73583—M. O. Davis—*Churn Dasher.*



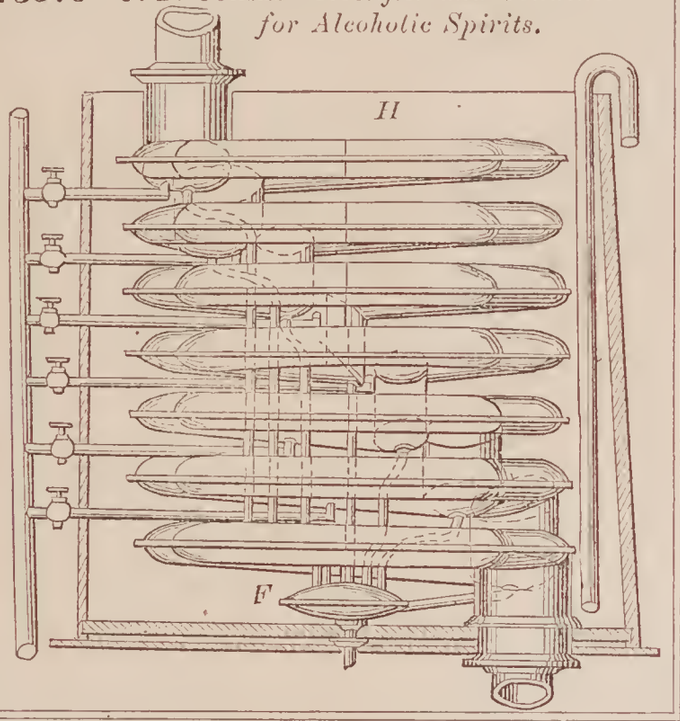
73580—R. Cook—*Scissors.*



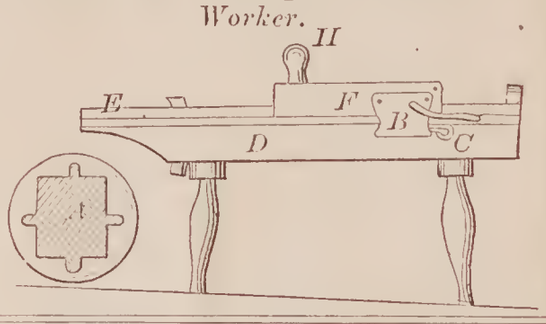
73581—E. & J. C. Covert—*Neck Yoke.*



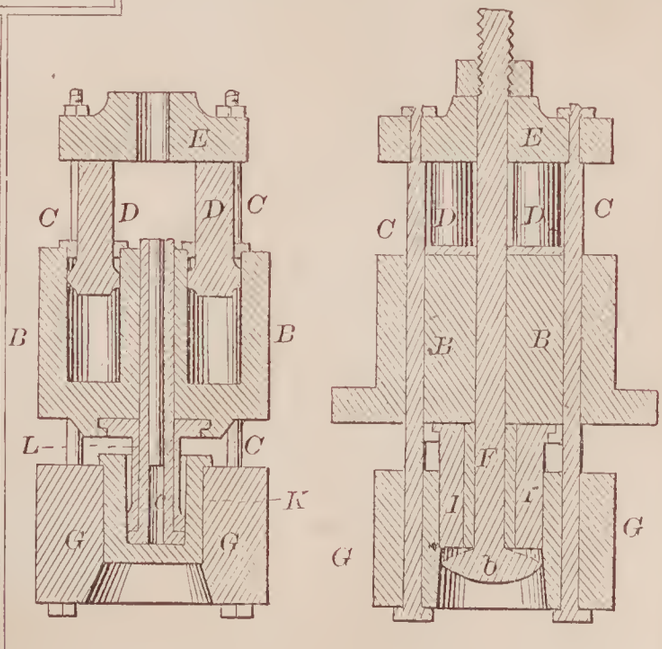
73579—J. F. Collins—*Rectifier and Condenser for Alcoholic Spirits.*



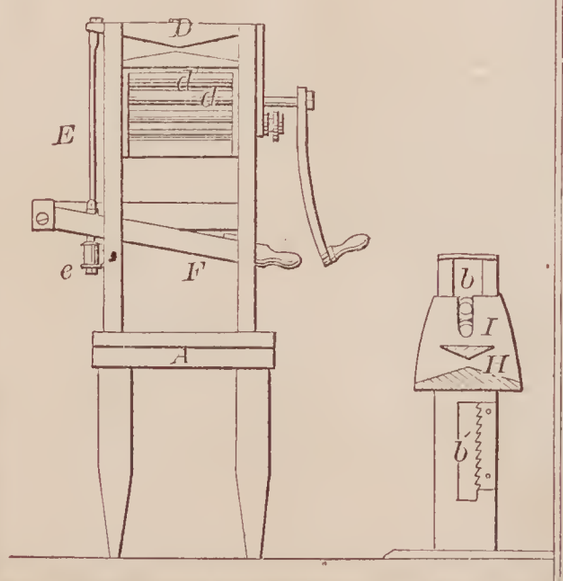
73582—W. Cunningham—*Butter Worker.*



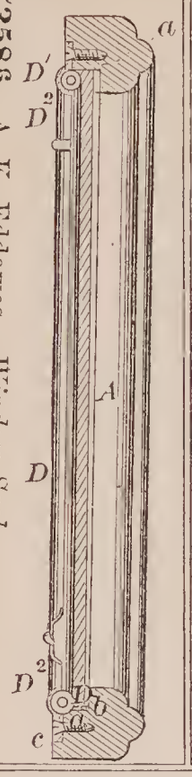
73585—A. Dow—*For Manufacturing Sheet Lead.*



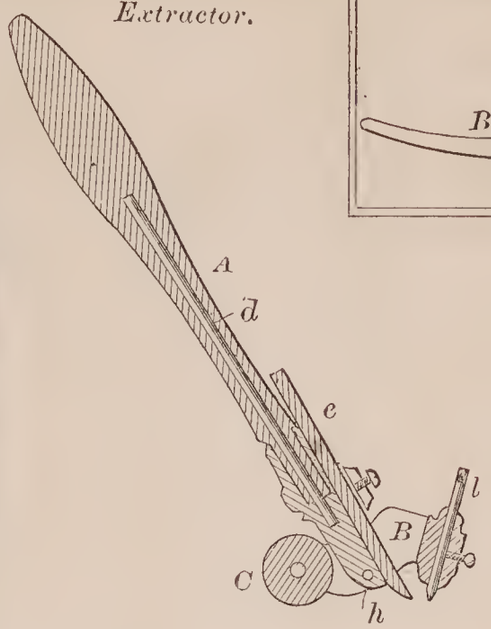
73584—W. S. Douglas—*Clothes Wringer.*



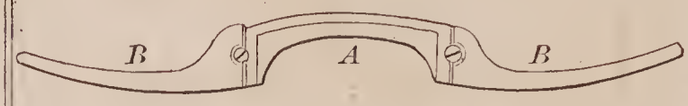
73586—A. K. Eddowes—*Window Sash.*



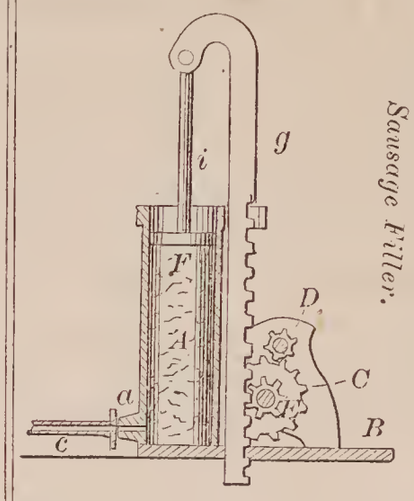
73587—J. Edson—*Nail Extractor.*



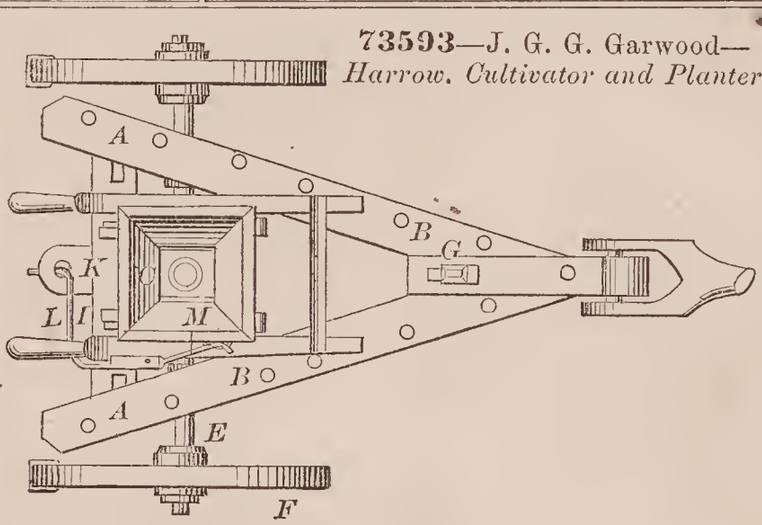
73588—M. M. Elliott—*Shoe Shave.*

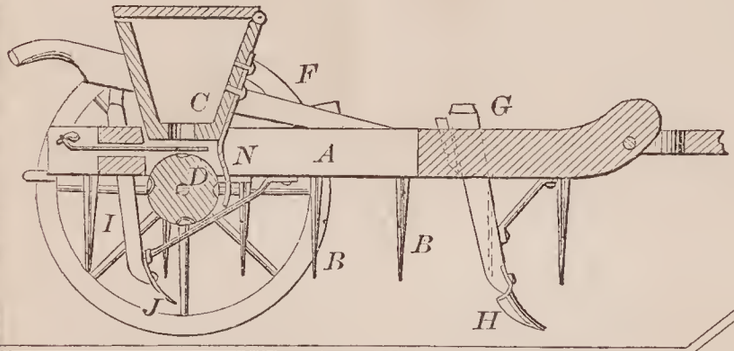


73591—M. Feuerstein—*Sausage Filler.*

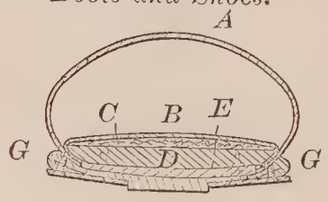


73593—J. G. G. Garwood—*Harrow, Cultivator and Planter.*

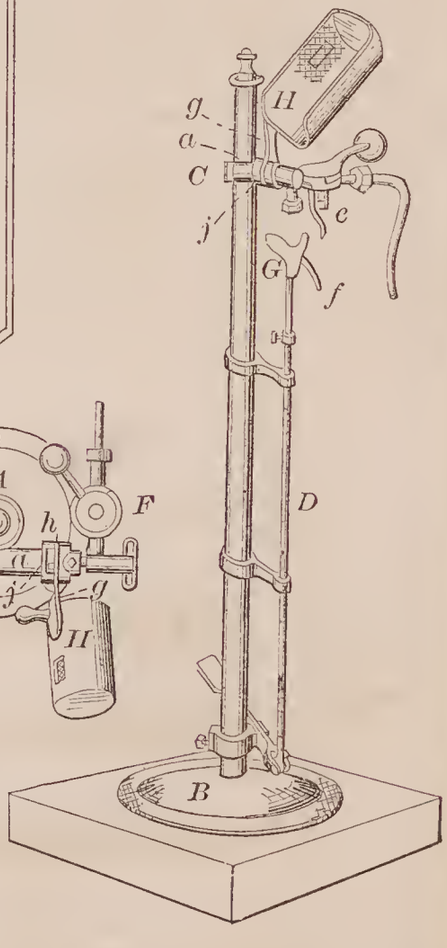




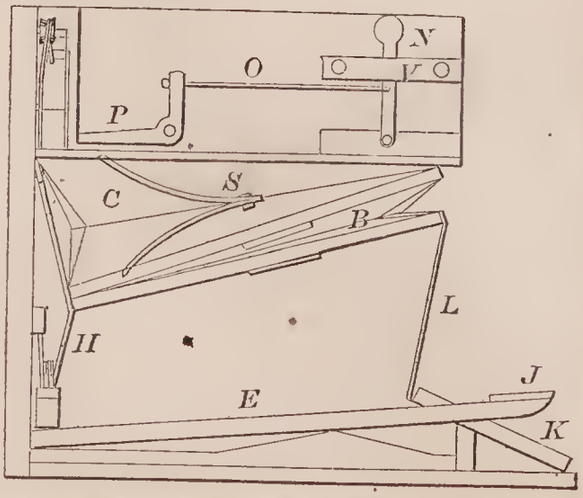
73589—M. R. Ethridge—*Boots and Shoes.*

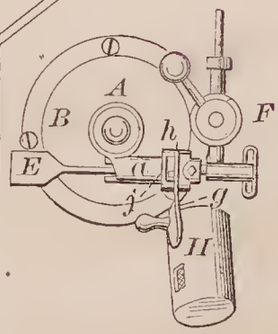


73594—W. Gee—*For Filling Syphon Bottles.*

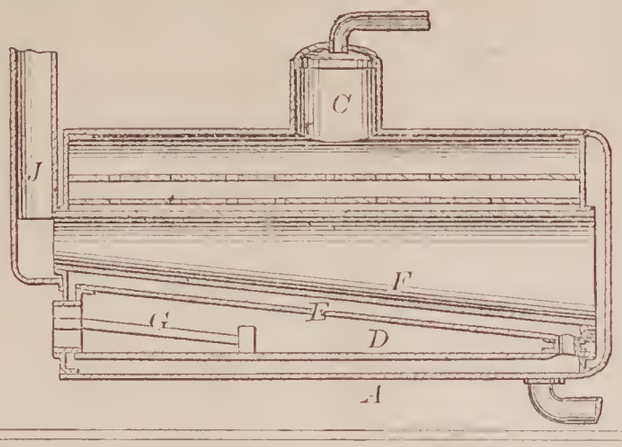


73592—O. Follett—*Bellows.*

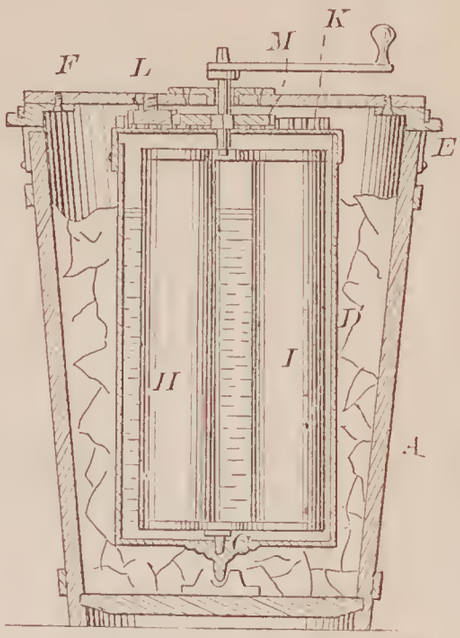




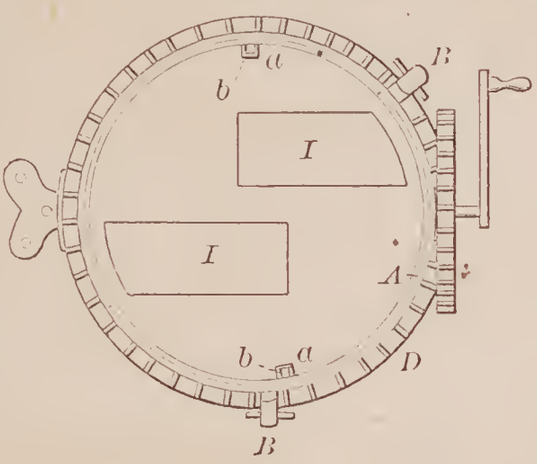
73595—H. Gerner—*Steam Generator.*

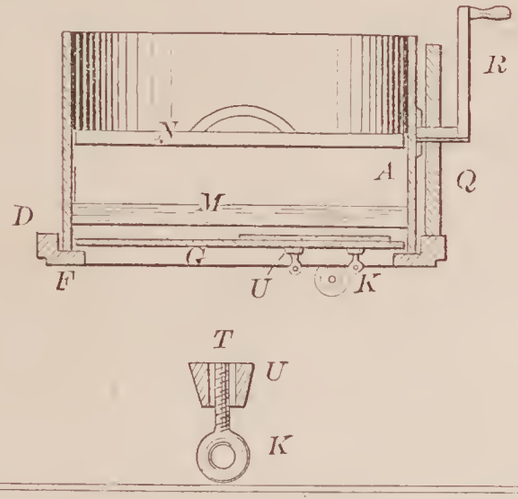


73596—C. Gooch—*Ice Cream Freezer.*

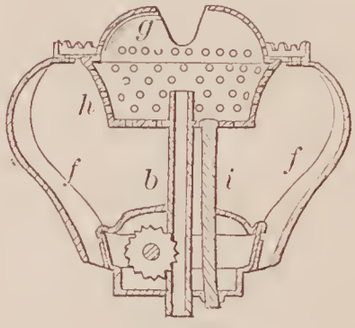


73597—G. P. Hachenberg—*Vegetable Cutter.*

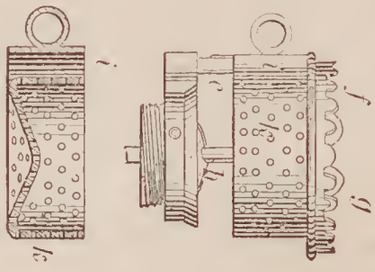




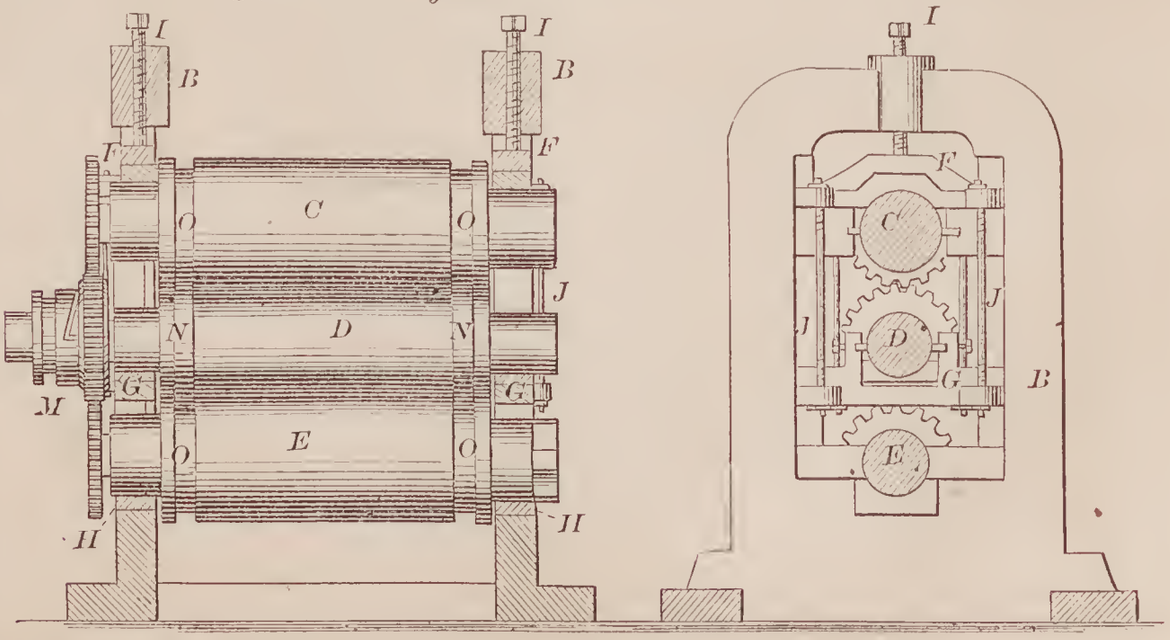
73599—H. W. Hayden—*Lamp.*



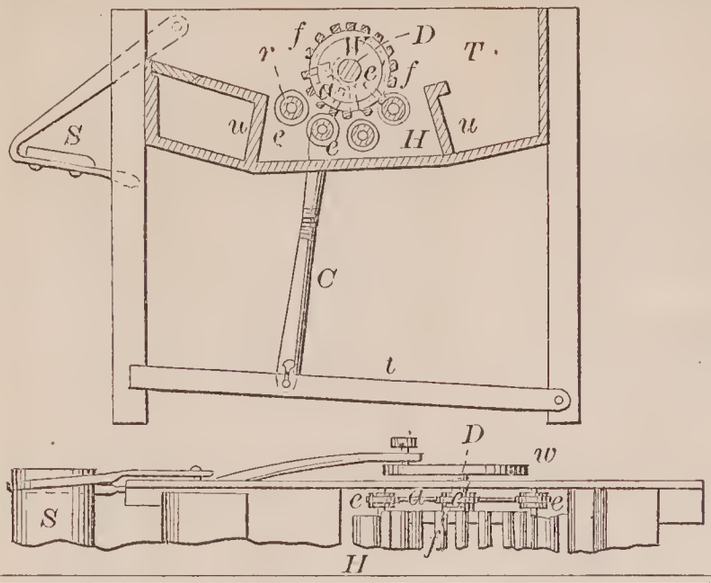
73600—H. W. Hayden—*Lamp.*



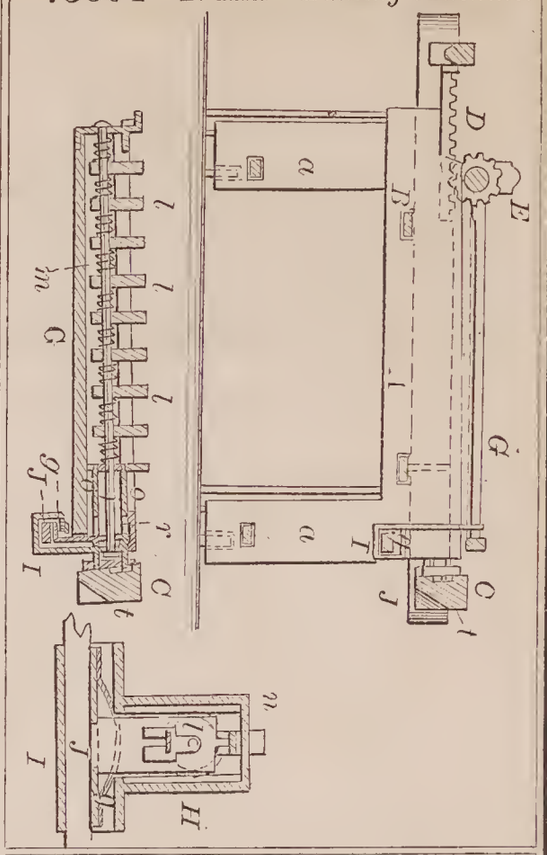
73598—G. Hastings, Jr.—*Rolling Machine.*



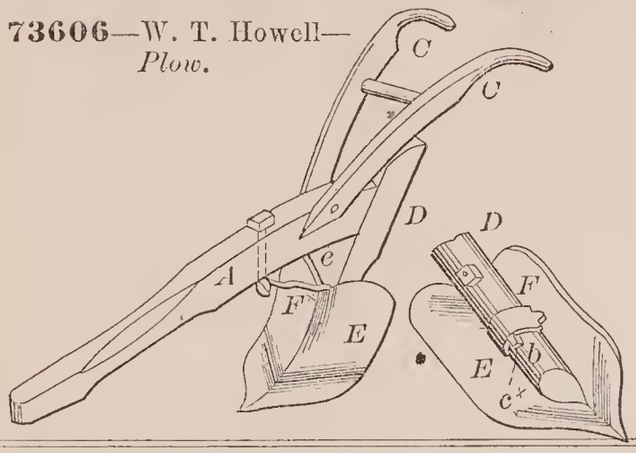
73601—H. Helm—*Washing Machine.*



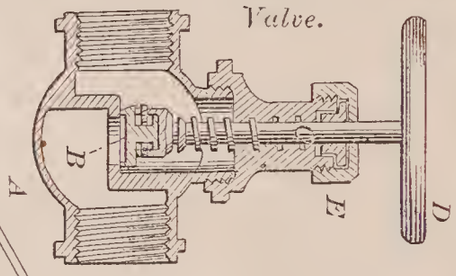
73604—T. Hill—*Lathing Machine.*



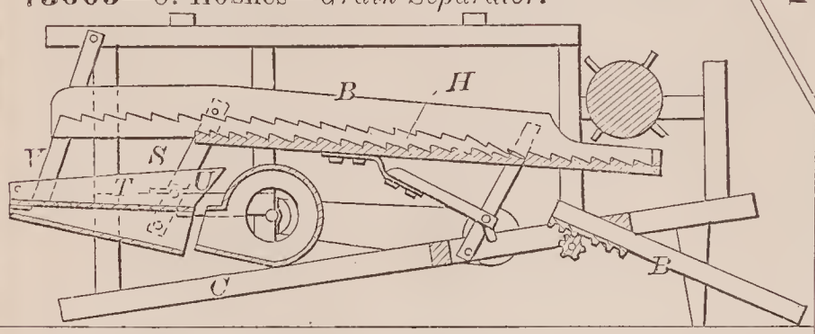
73606—W. T. Howell—*Plow.*



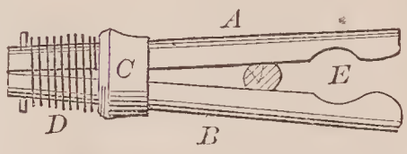
73602—H. H. Hendrick—*Globe Valve.*



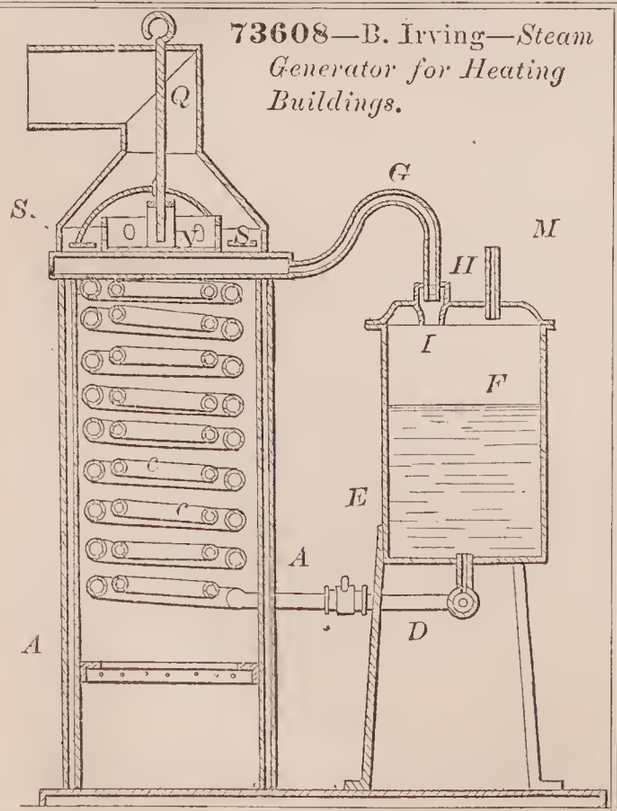
73605—O. Holmes—*Grain Separator.*



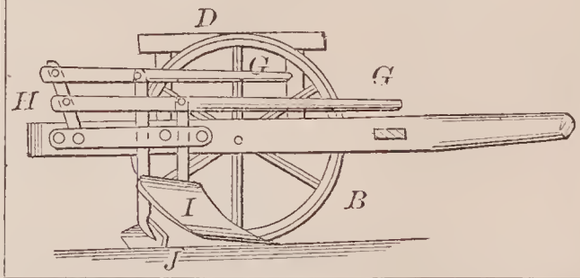
73609—D. D. Jones—*Clothes Pin.*



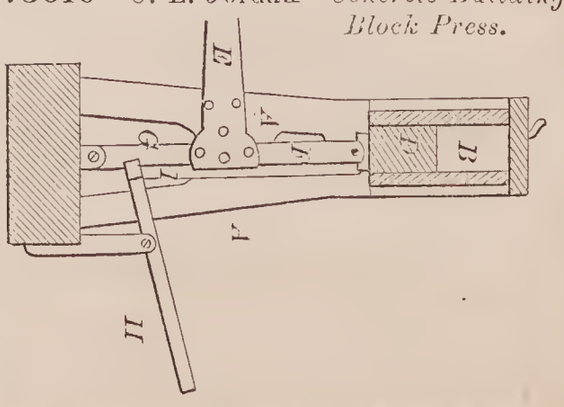
73608—B. Irving—*Steam Generator for Heating Buildings.*



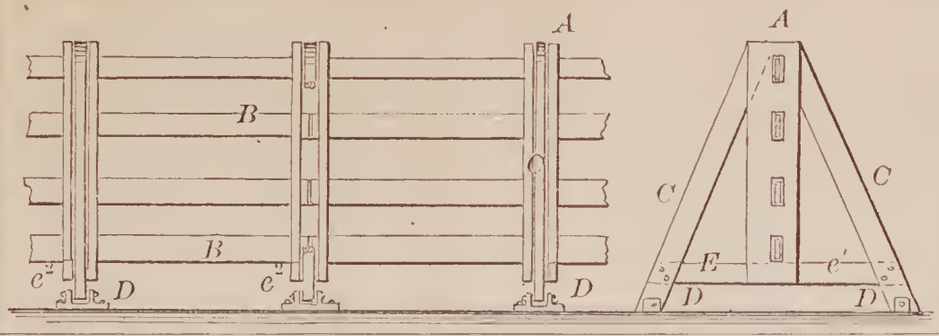
73607—D. W. Hughes—*Plow.*



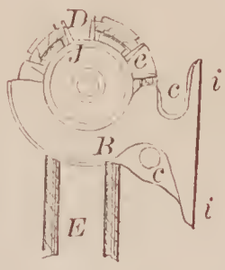
73610—O. L. Jordan—*Concrete Building Block Press.*



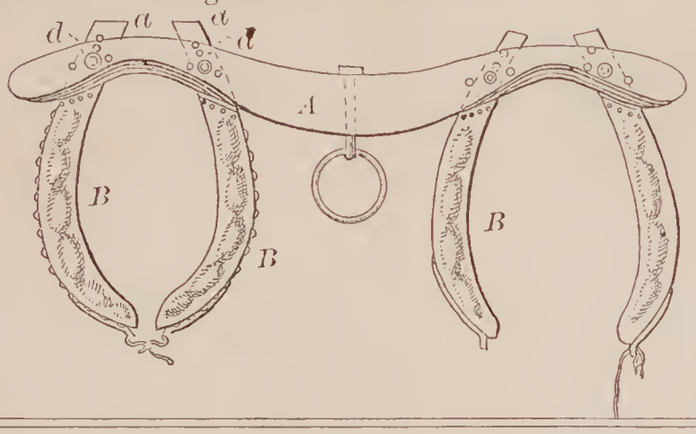
73611—D. Kaufman—*Fence.*



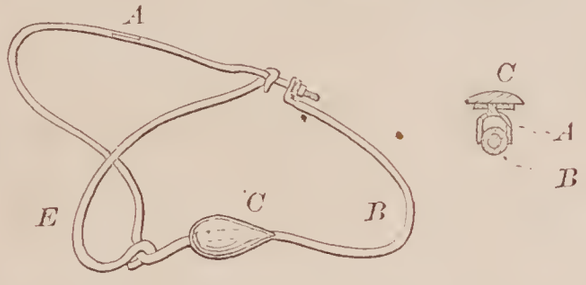
73612—C. E. Knauer—*Curtain Fixture.*



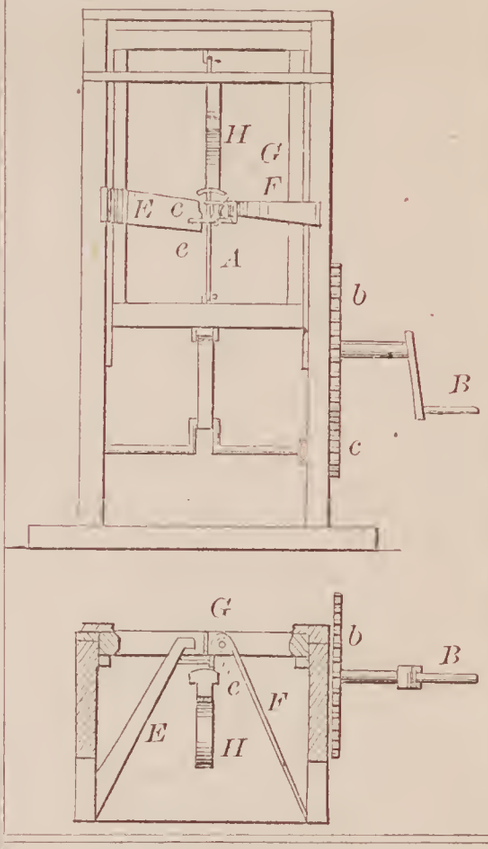
73613—J. Langenbach—*Ox Yoke.*



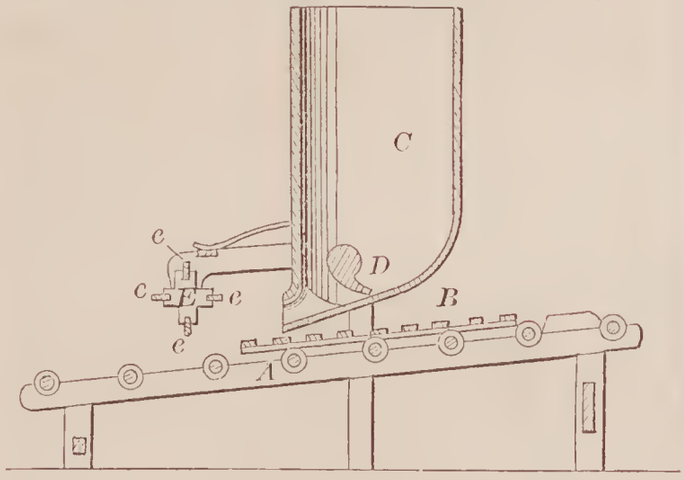
73614—J. Lecocq—*Abdominal Supporter.*



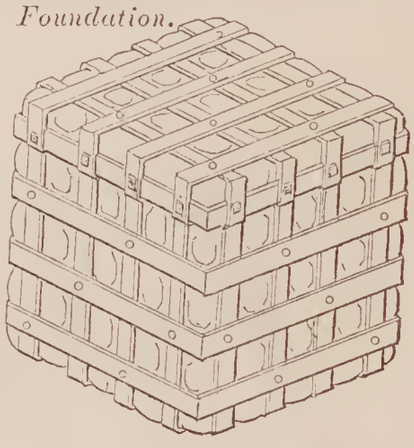
73615—A. Lutz—*For Sawing Hoops.*



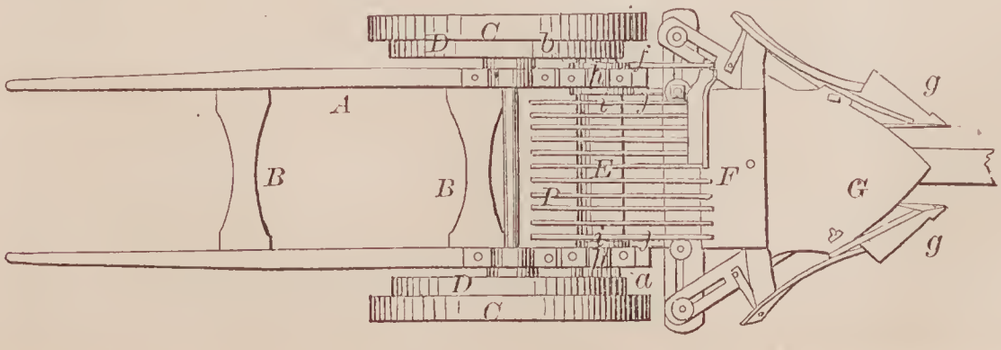
73616—J. B. Lyons—*For Moulding Peat.*



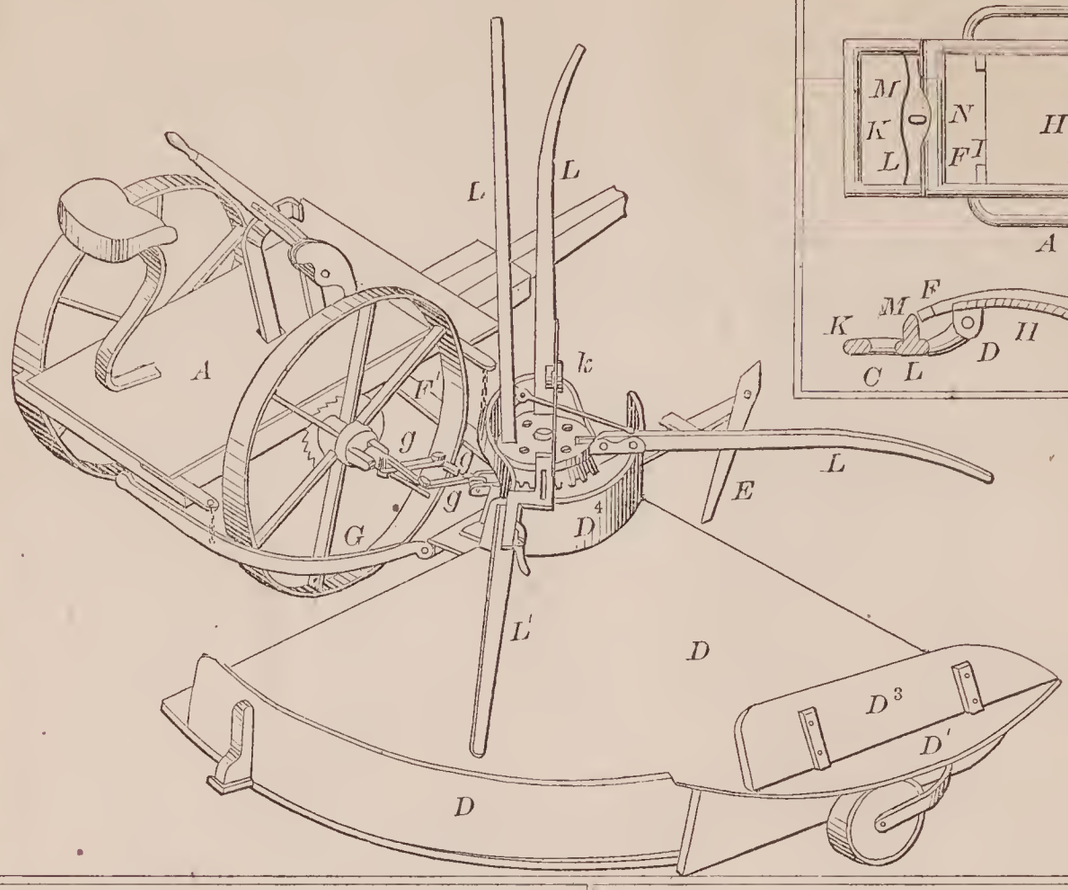
73617—E. Manico—*Marine Foundation.*



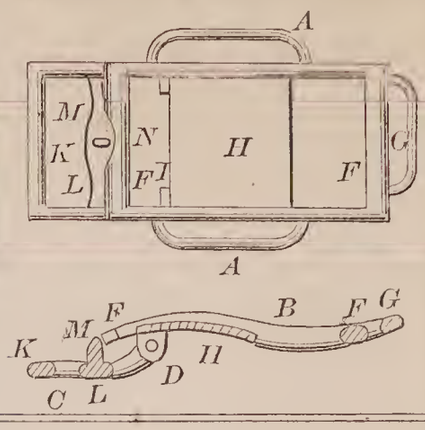
73618—F. B. Marden—*Potato Planter, Hoe and Potato Digger.*



73619—J. S. Marsh—*Harvester Rake.*

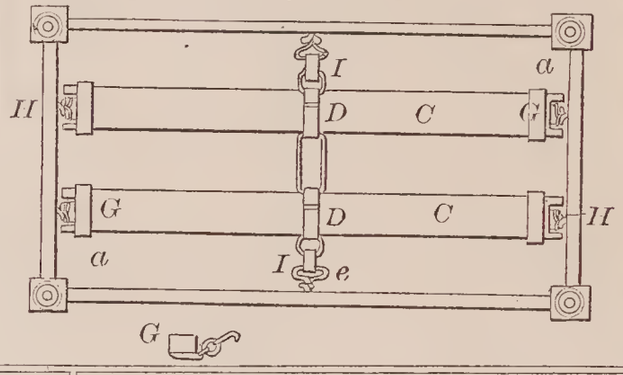


73620—C. W. Martin—*Buckle.*

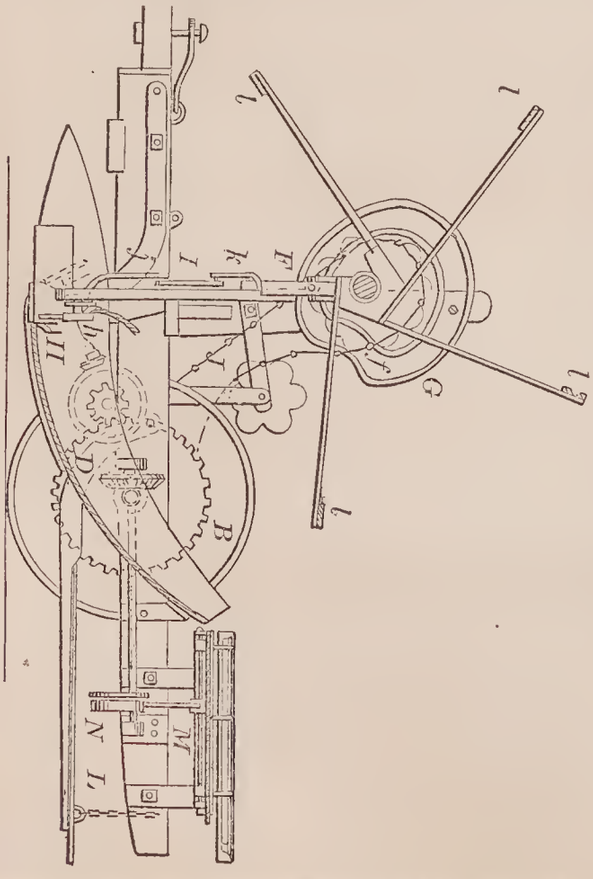


73621—W. W. Martin—*Lubricating Car Wheels.*

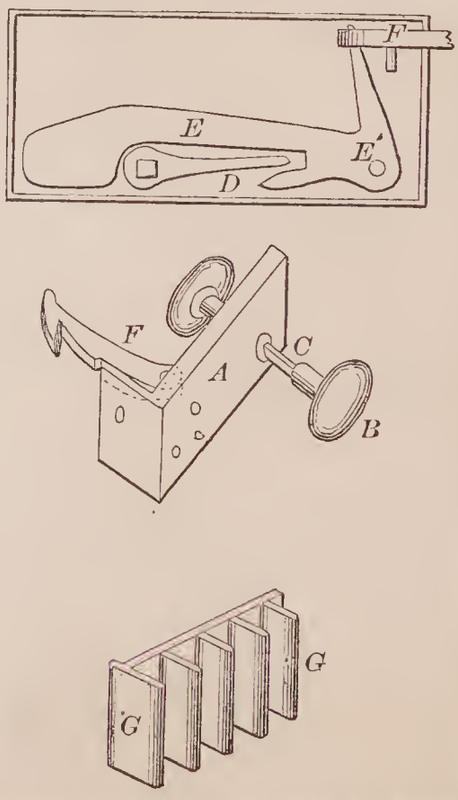
73622—N. Maxey—*Bed Bottom.*



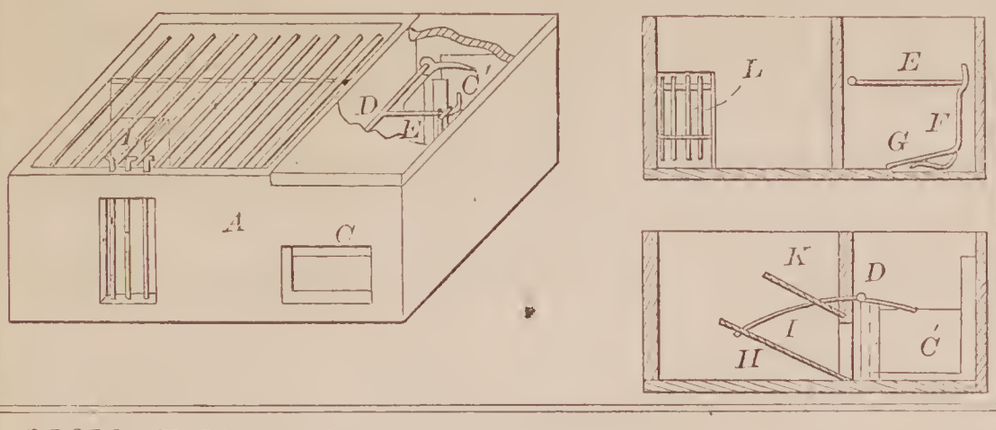
73623—J. B. McCormick—*Harvester Rake.*



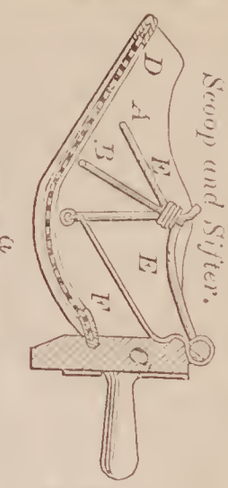
73624—C. E. Merrifield—*Gate Latch*



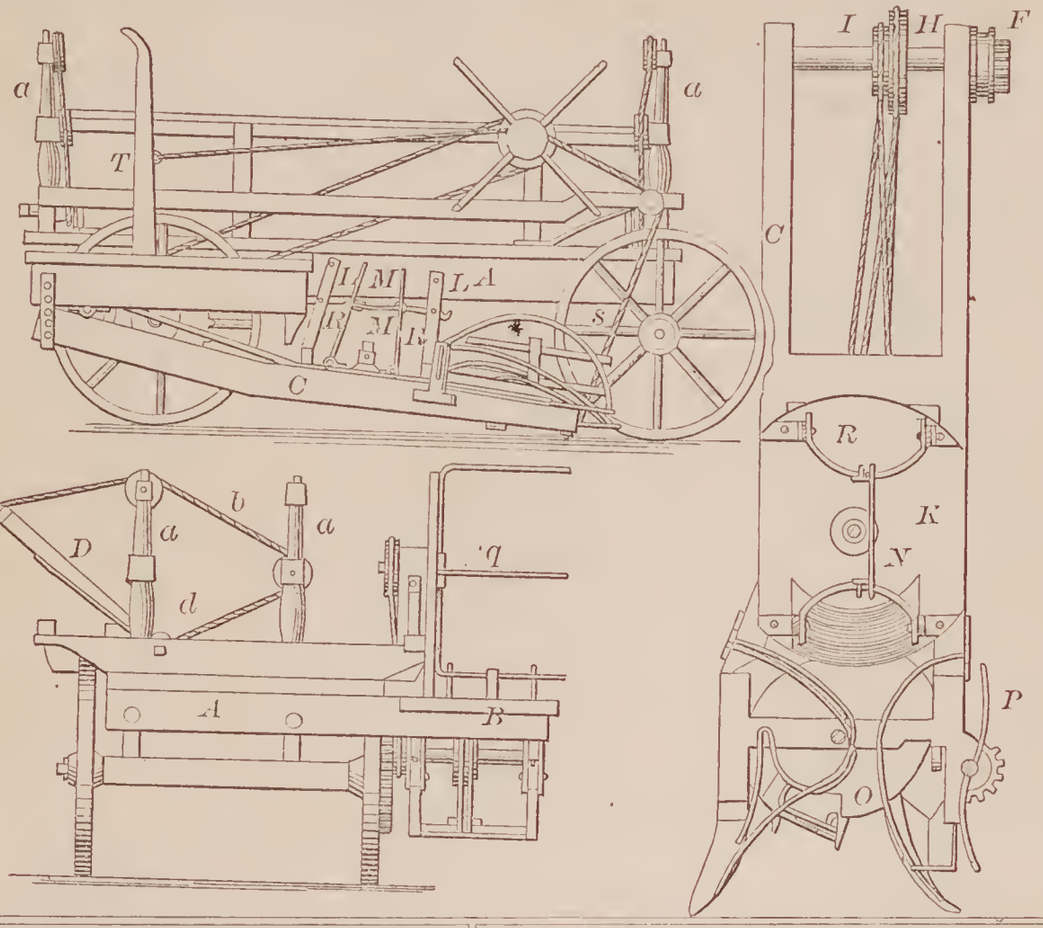
73625—J. H. Miller—*Animal Trap.*



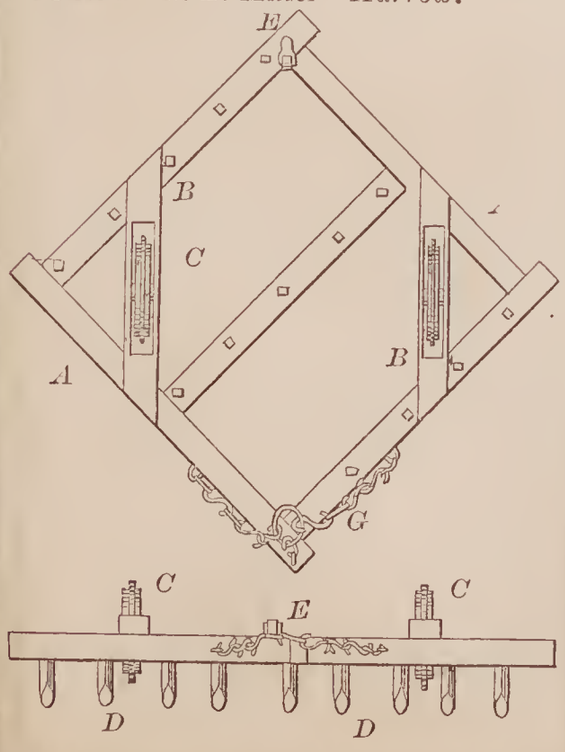
73628—R. S. Mitchell—*Flour Scoop and Sifter.*



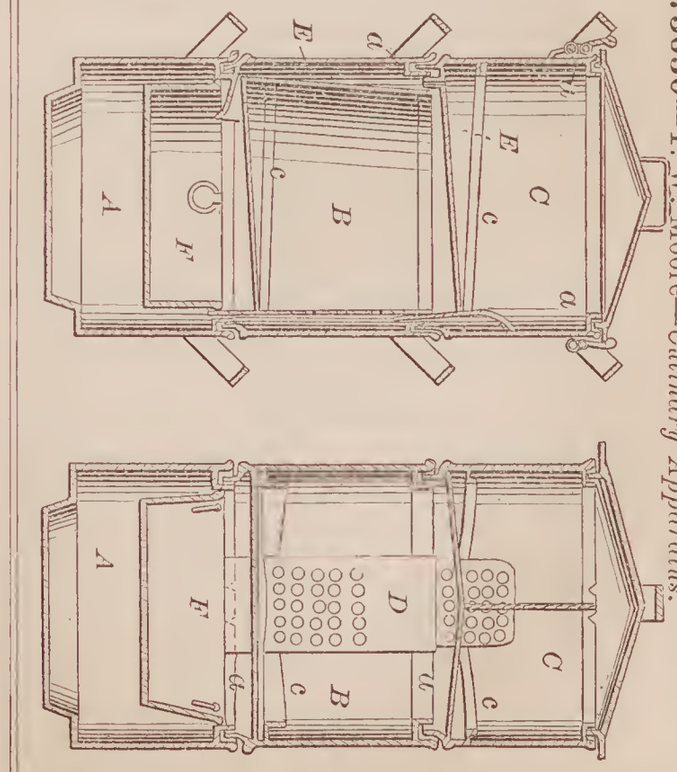
73629—H. Molby—*Corn Harvester.*



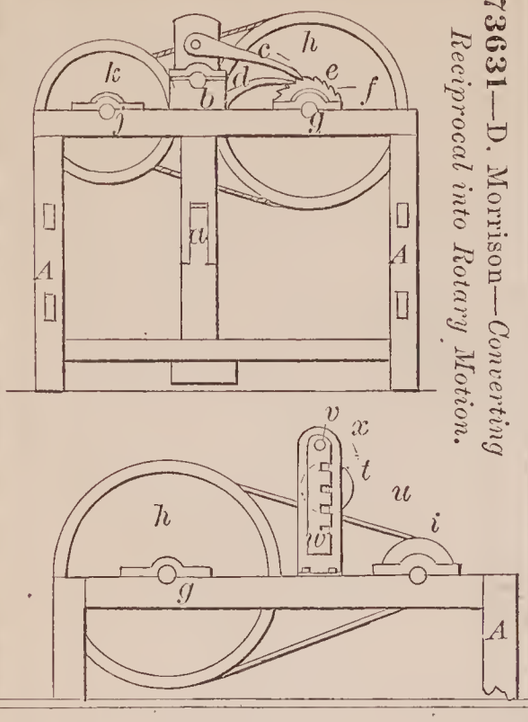
73626—N. B. Miller—*Harrow.*



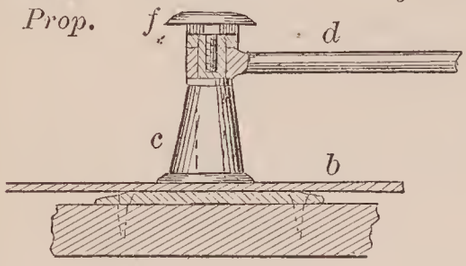
73630—T. W. Moore—*Culinary Apparatus.*



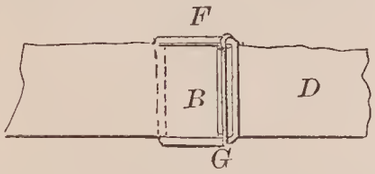
73631—D. Morrison—*Converting Reciprocal into Rotary Motion.*



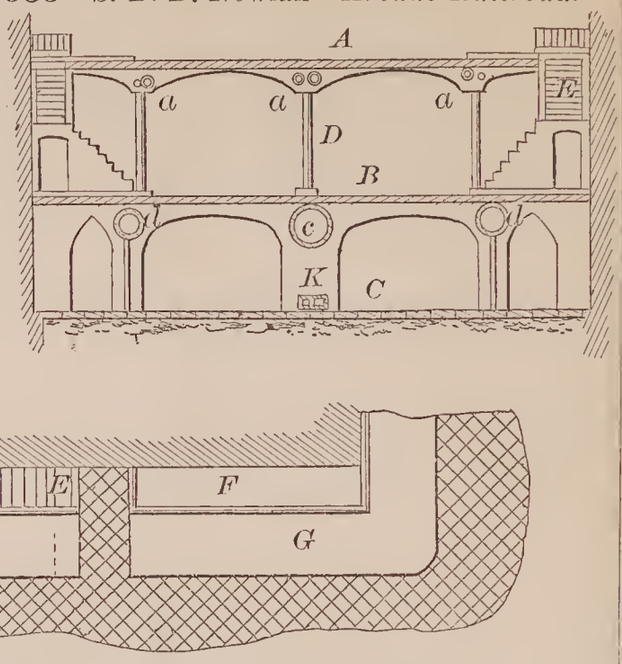
73632—J. F. Mullen—*Carriage Top Prop.*



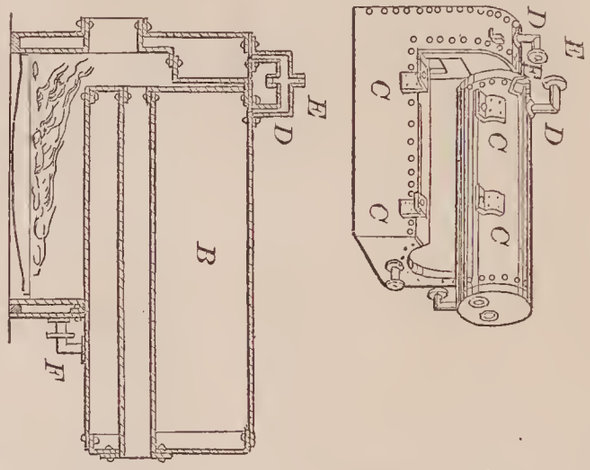
73633—H. Neumann—*Buckle.*



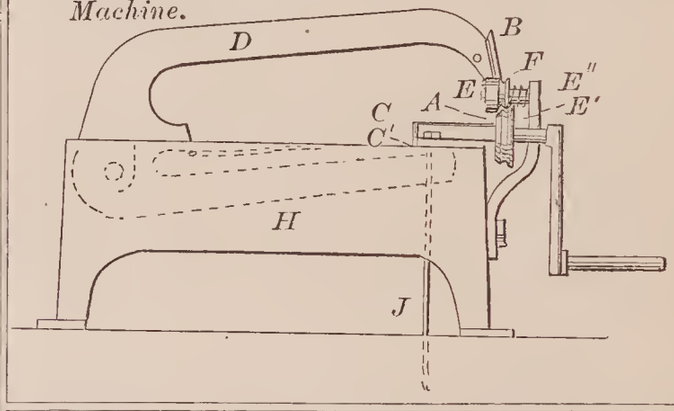
73635—S. B. B. Nowlan—*Arcade Railroad.*



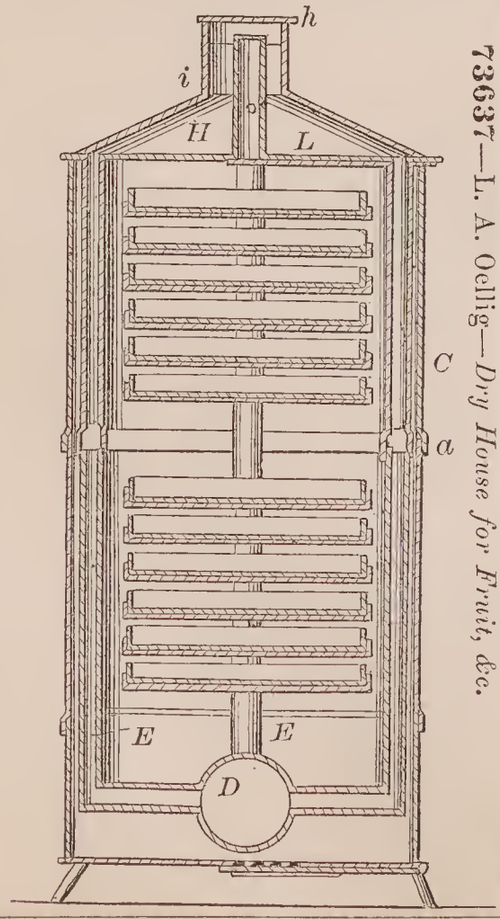
73634—A. W. Newell—*Steam Generator.*



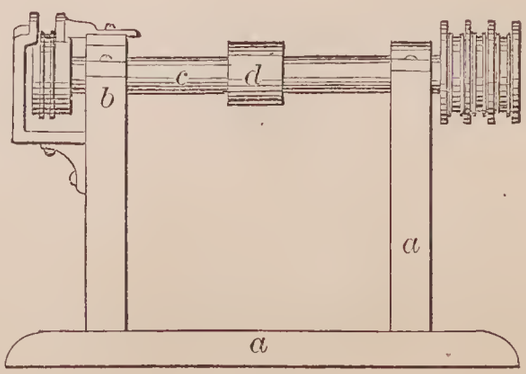
73636—H. J. Noyes—*Tin Ware Seaming Machine.*



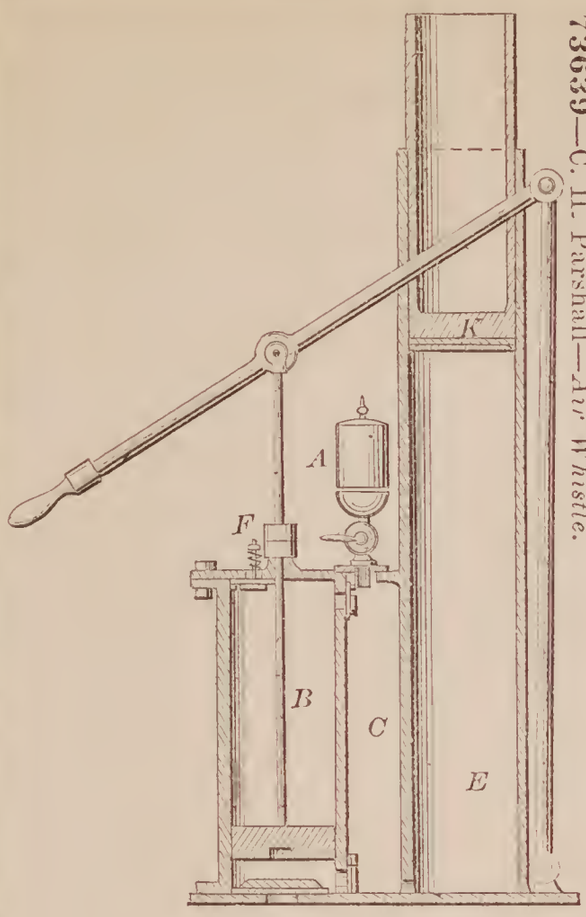
73637—L. A. Oellig—*Dry House for Fruit, &c.*



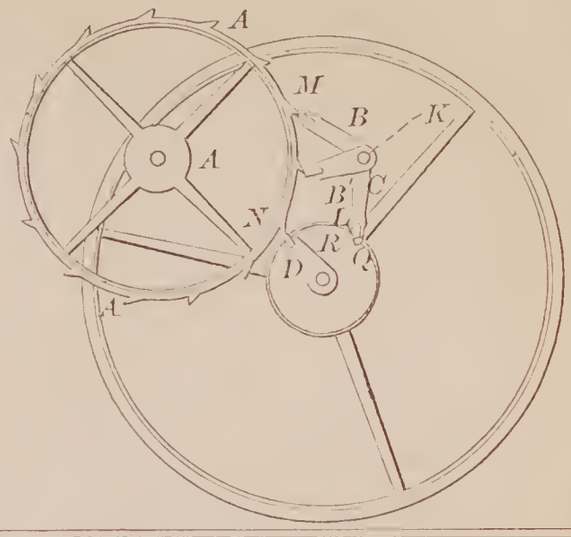
73638—C. W. Palmer—*For Finishing the Edges of Boot and Shoe Soles.*



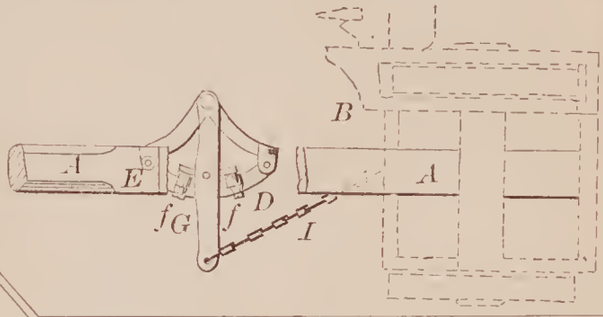
73639—C. H. Parshall—*Air Whistle.*



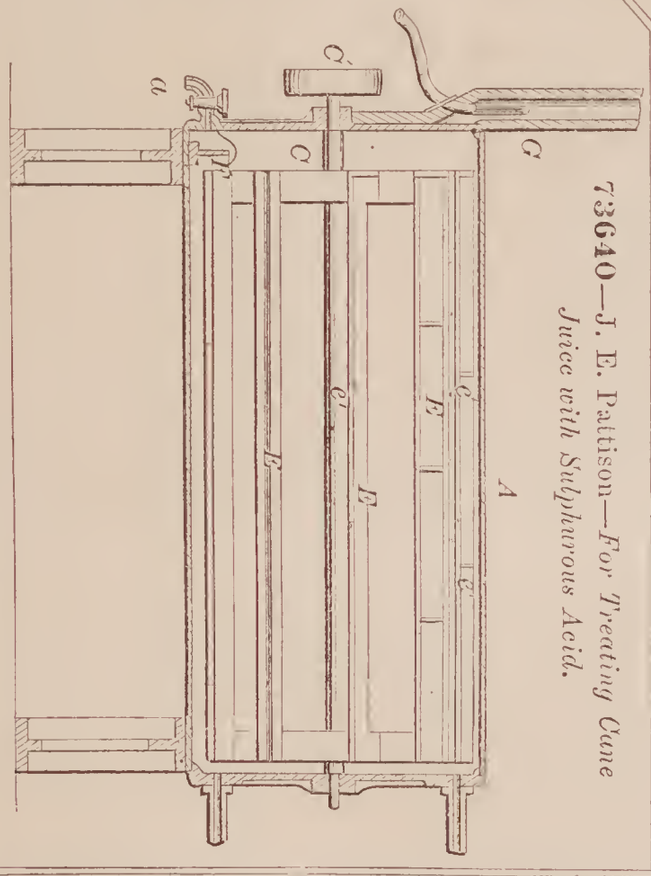
73646—O. H. Potter—*Chronometer Escapement.*



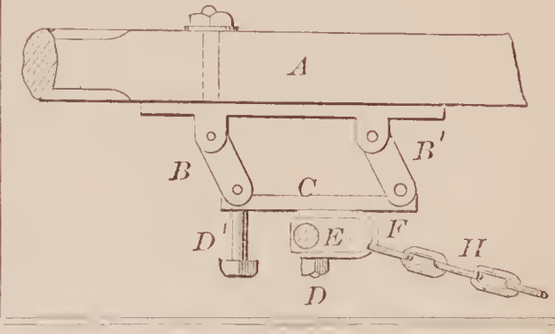
73641—H. W. Pell—*Harvester.*



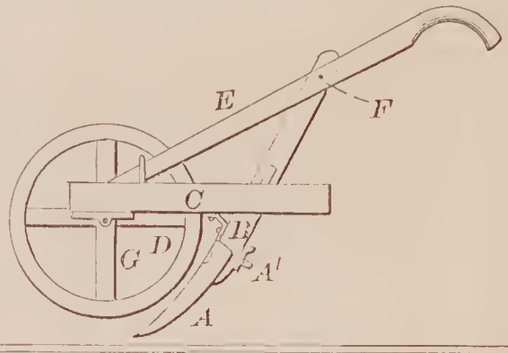
73640—J. E. Pattison—*For Treating Cane Juice with Sulphurous Acid.*



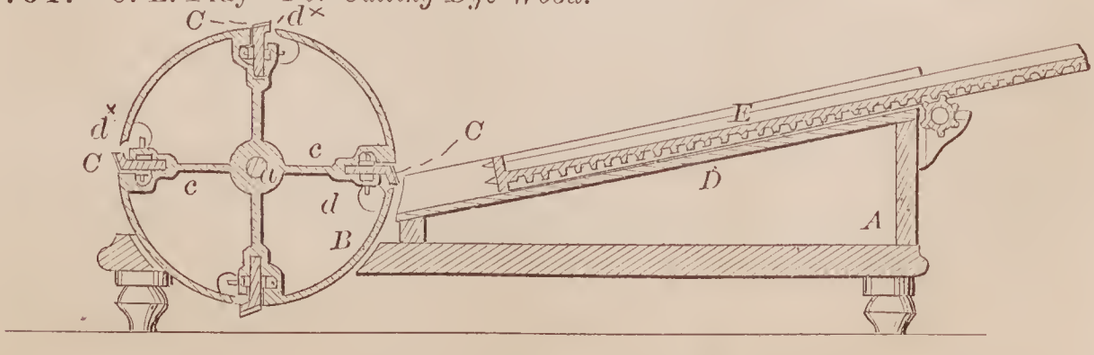
73642—H. W. Pell—*Harvester.*



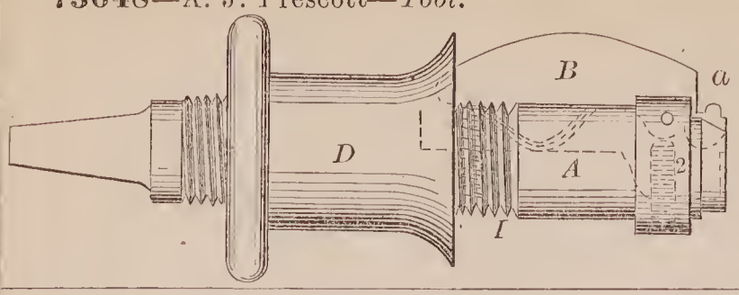
73644—D. Petticrew—*Garden Plow.*



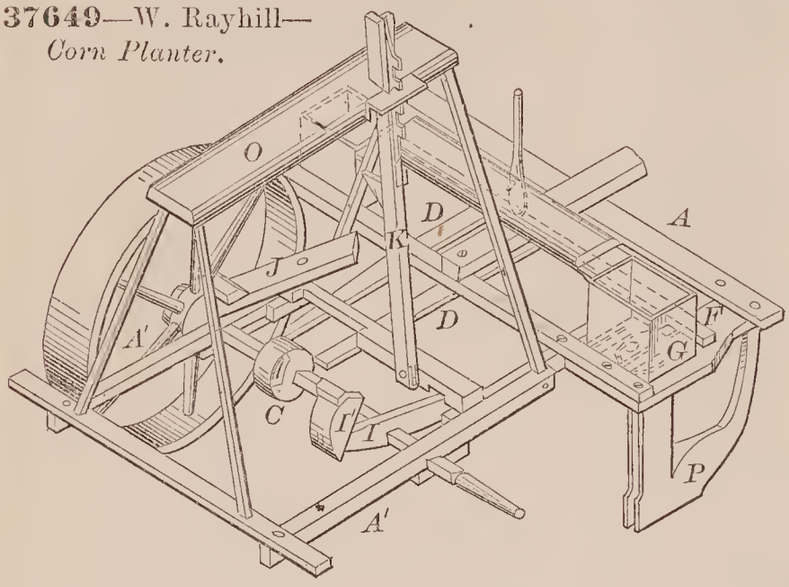
37647—O. E. Pray—*For Cutting Dye Wood.*



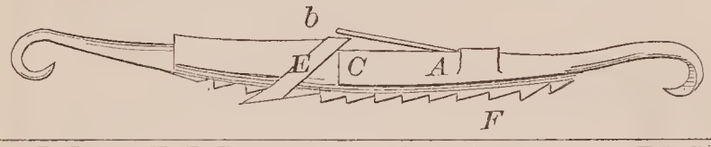
73648—A. J. Prescott—*Tool.*



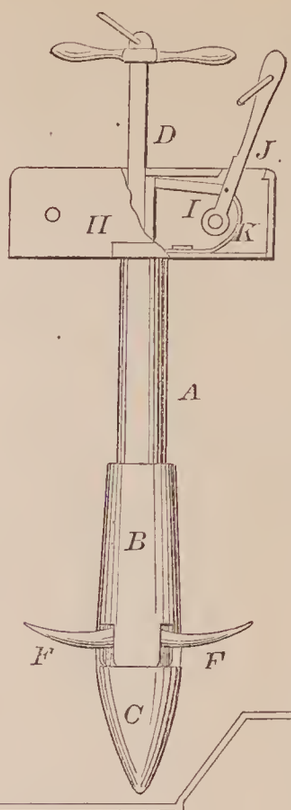
37649—W. Rayhill—*Corn Planter.*



73651—W. A. Robinson—*Hames Fastener.*

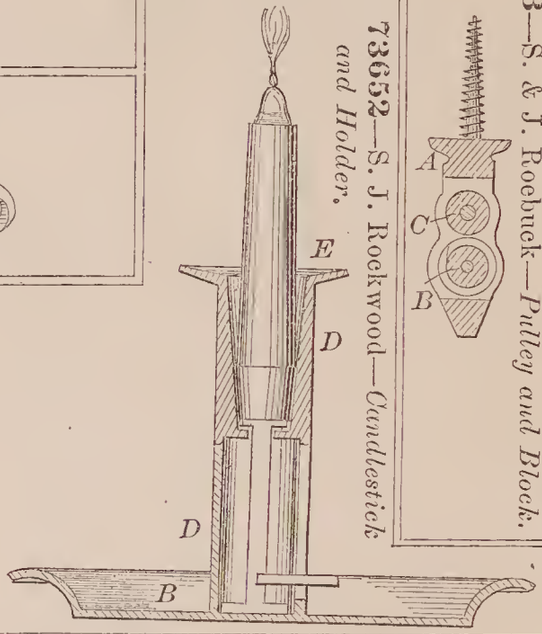


73650—E. Rhoades, Sr.—*Horse Hay Fork.*

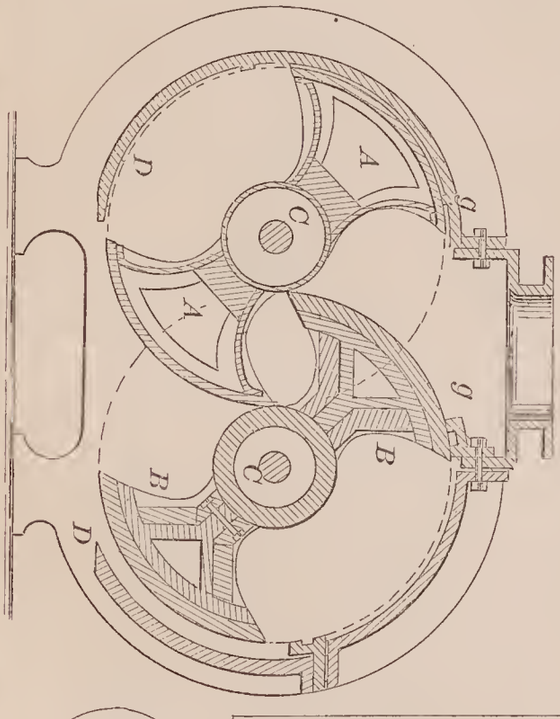


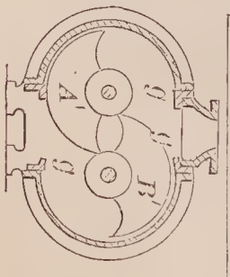
73653—S. & J. Roebuck—*Pulley and Block.*

73652—S. J. Rockwood—*Candlestick and Holder.*

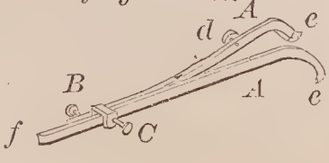


73654—P. H. & F. M. Roots—*Rotary Blower.*

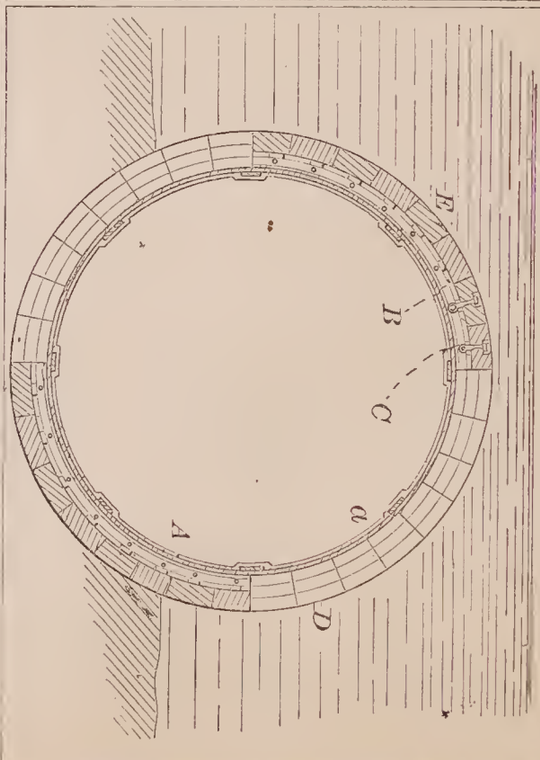




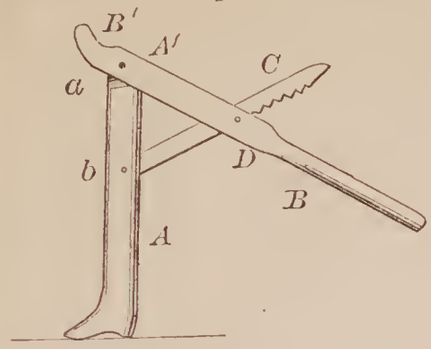
73655—A. Q. Ross—*Safety Pocket.*



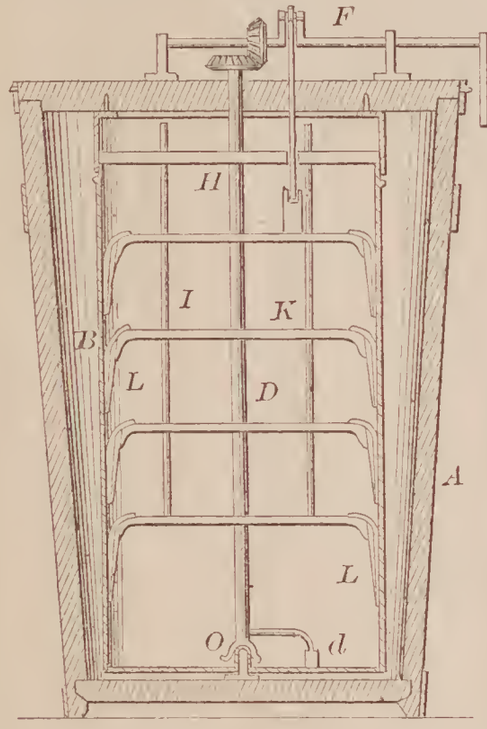
73656—T. F Rowland—*Sub Aqueous Tube.*



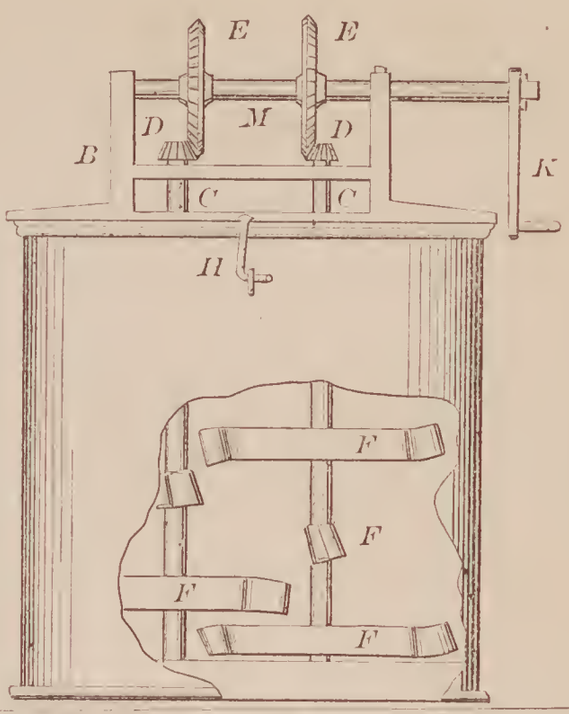
73657—E. Shopbell—*Lifting Jack*



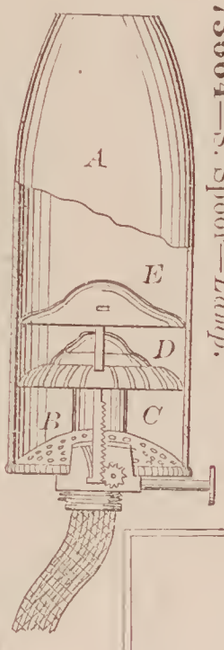
73658—F. G. Siemers—*Ice Cream Freezer.*



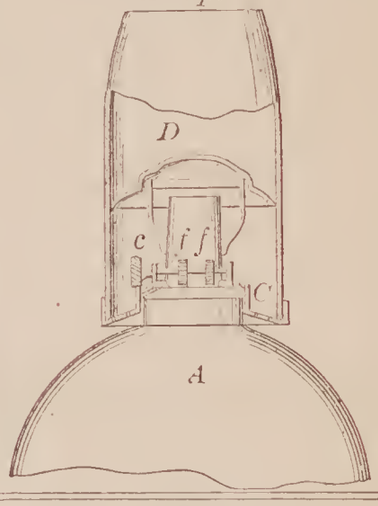
73659—I. J. Siler—*Churn.*



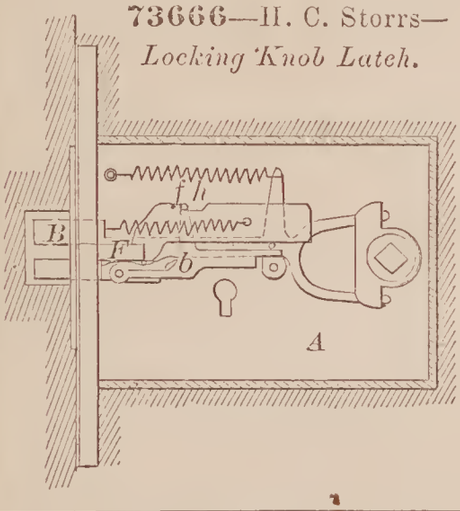
73664—S. Sloan—*Lamp.*



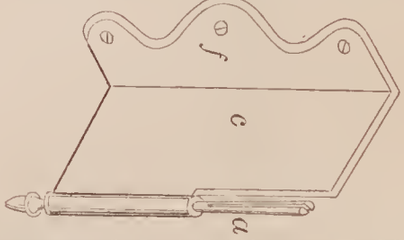
73663—C. F. Spencer—*Lamp.*



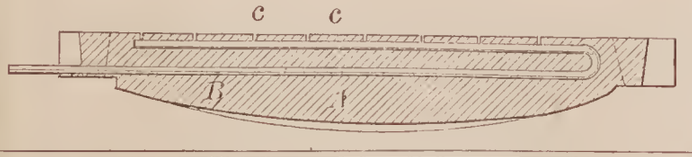
73666—H. C. Storrs—*Locking Knob Latch.*



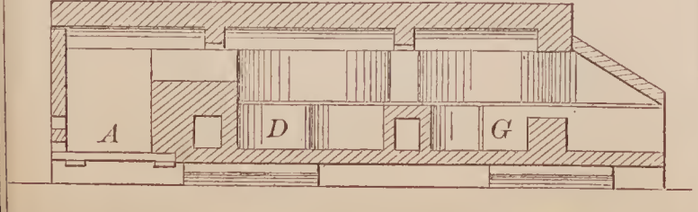
73661—J. Sowle—*Hinge.*



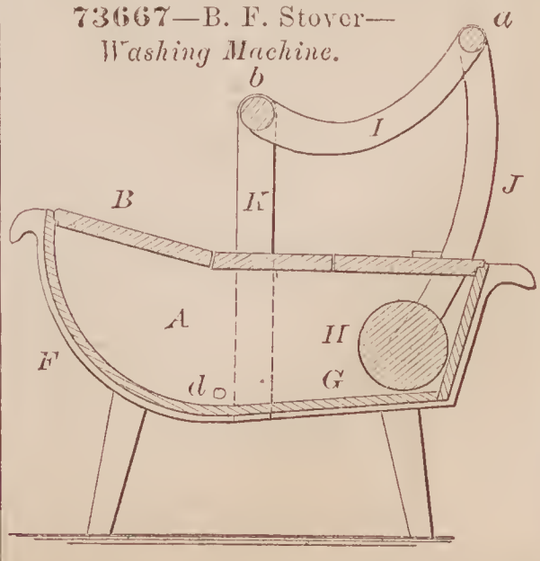
73662—H. Specler—*Fire Grate.*



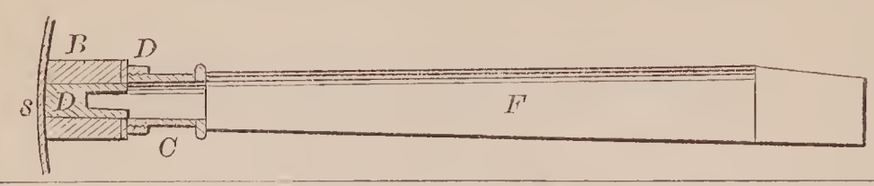
73665—W. Stevenson—*Puddling Furnace.*



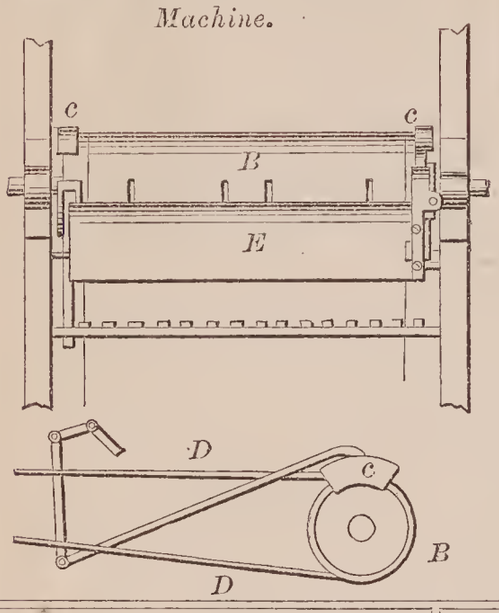
73667—B. F. Stover—*Washing Machine.*



73668—E. Swain—*Wheel Tightener.*

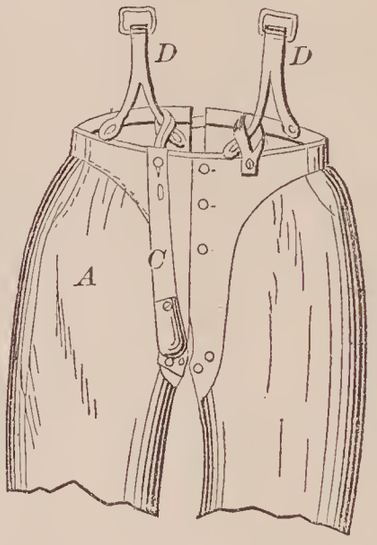


73669—J. F. Tapley—*Ruling Machine.*

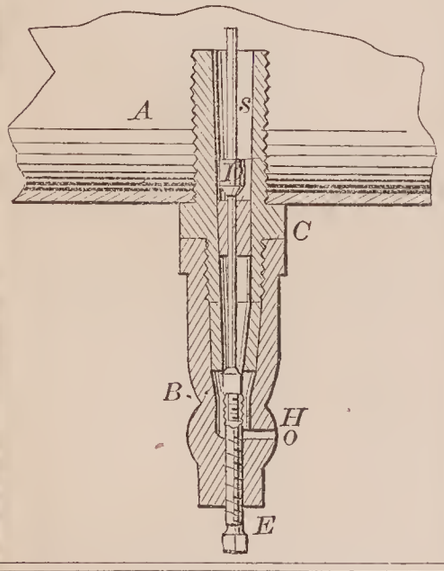


73670—W. J. Tate—*Adjustable Spirit Level.*

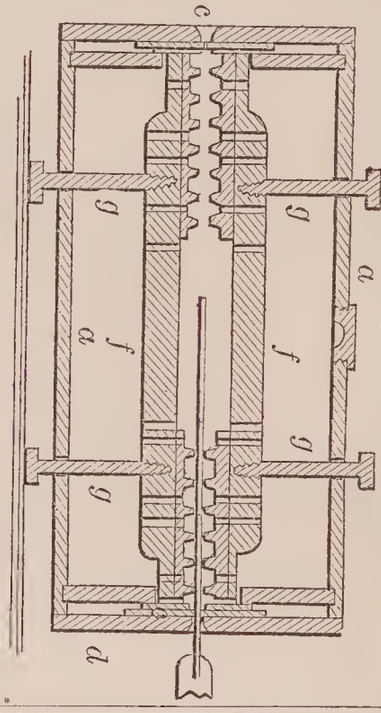
73671—Z. Taylor—*Drawers Truss.*



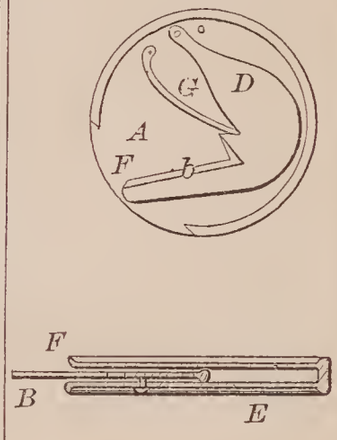
73672—W. G. Thomas—*Boiler Gauge Cock.*



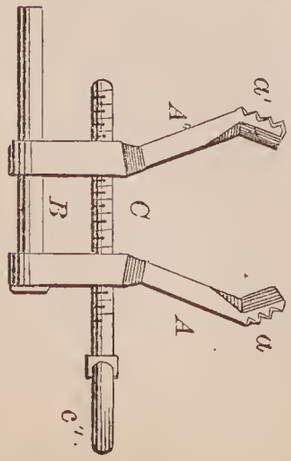
73673—I. F. Thompson—*Knife Cleaner.*



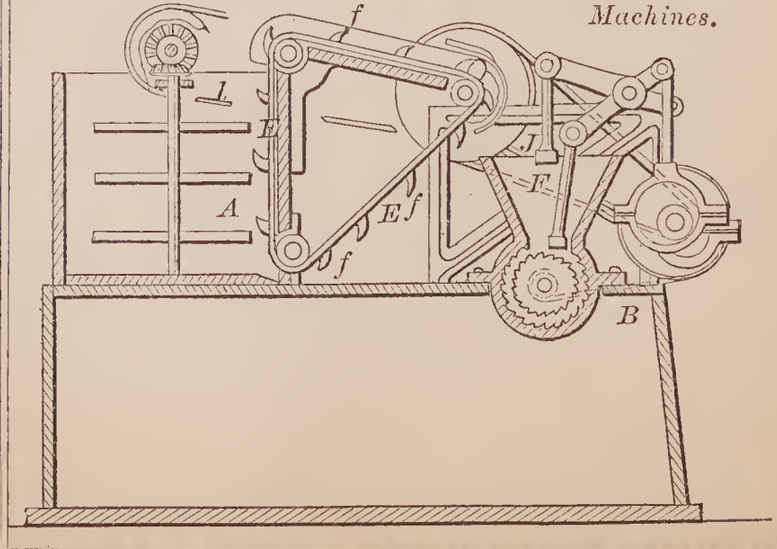
73674—T. R. Timby—*Paper Cutter.*



73675—J. Tipton—*Hoof Expander.*



73676—H. Turner—*Feeding Apparatus for Flocking Machines.*



73677—G. Twigg—*Corkscrew.*

Fig. 1

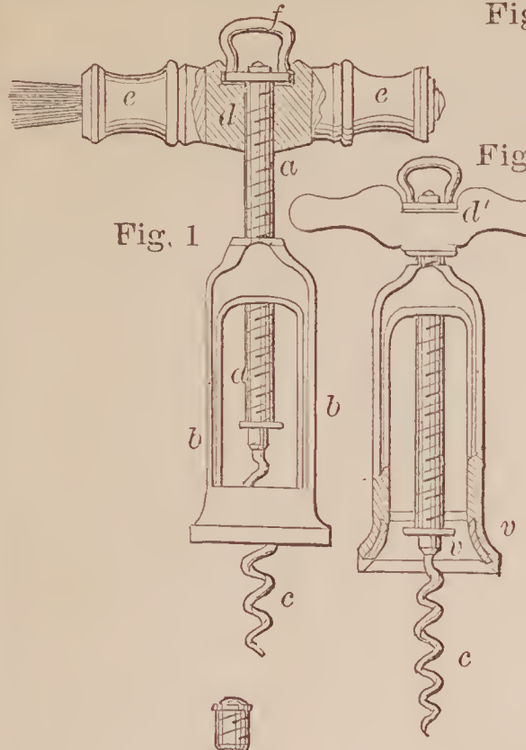


Fig. 14

Fig. 3

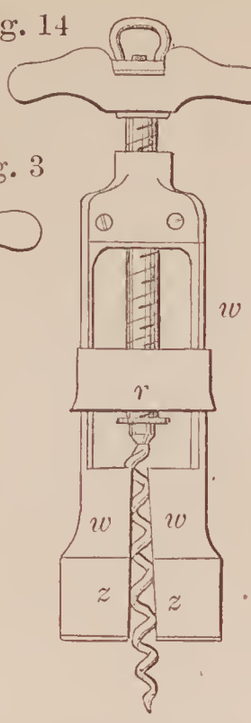


Fig. 6

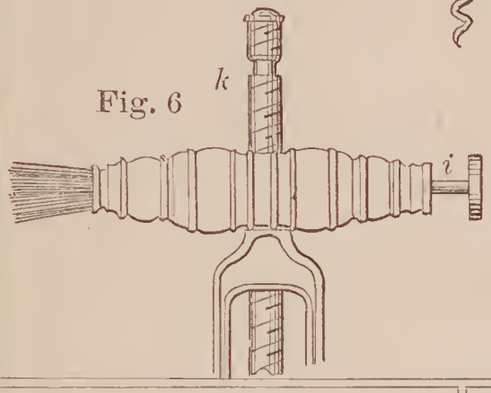
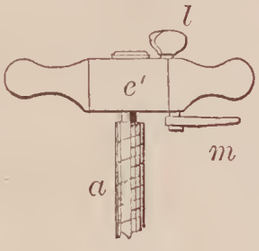
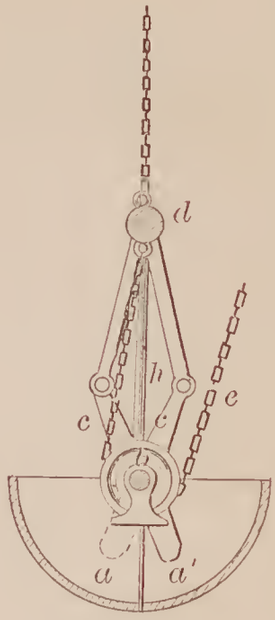
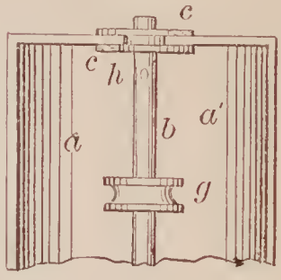


Fig. 8

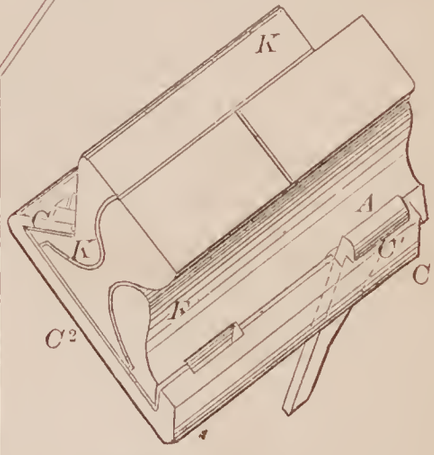


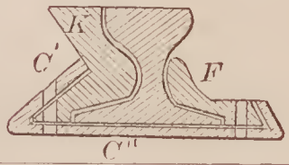
73678—T. & A. Walsh—*Bucket for Dredging Machines.*





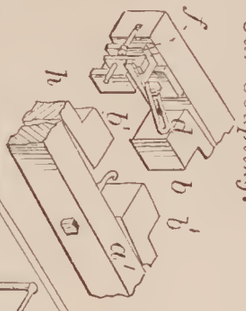
73679—J. E. Watkins—*Railroad Rail Clamp.*

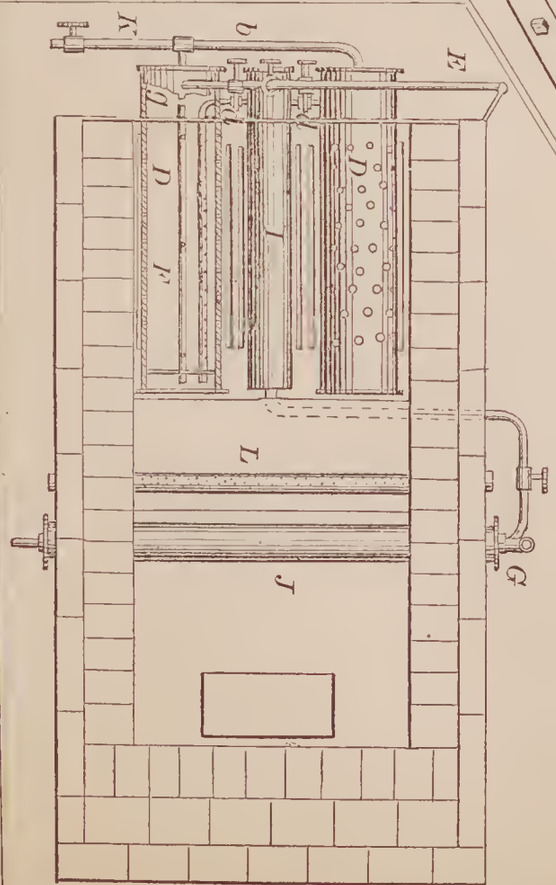




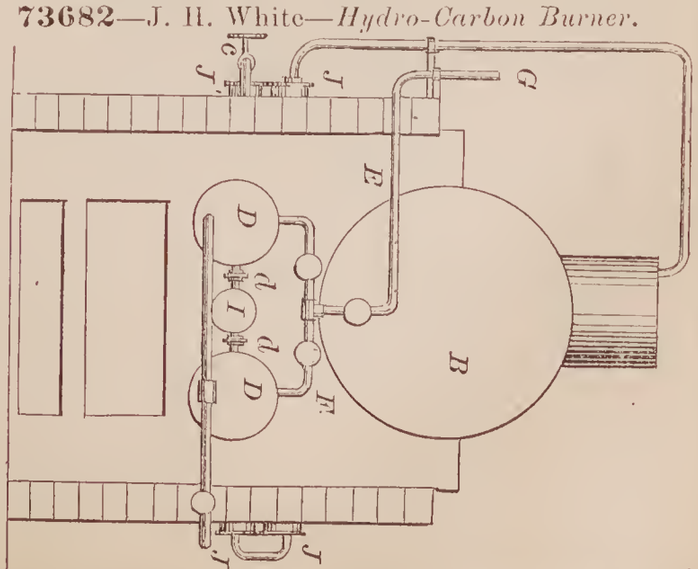
73680—E. Wattis, Jr.—*Fastening Metallic Collars to Bottles.*

73681—W. Weiler—*Car Coupling.*

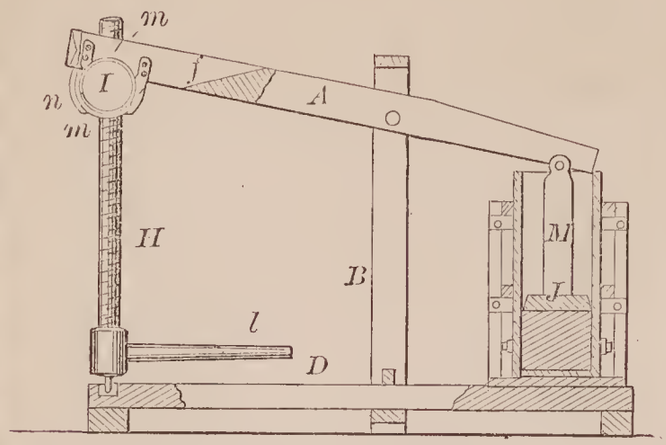




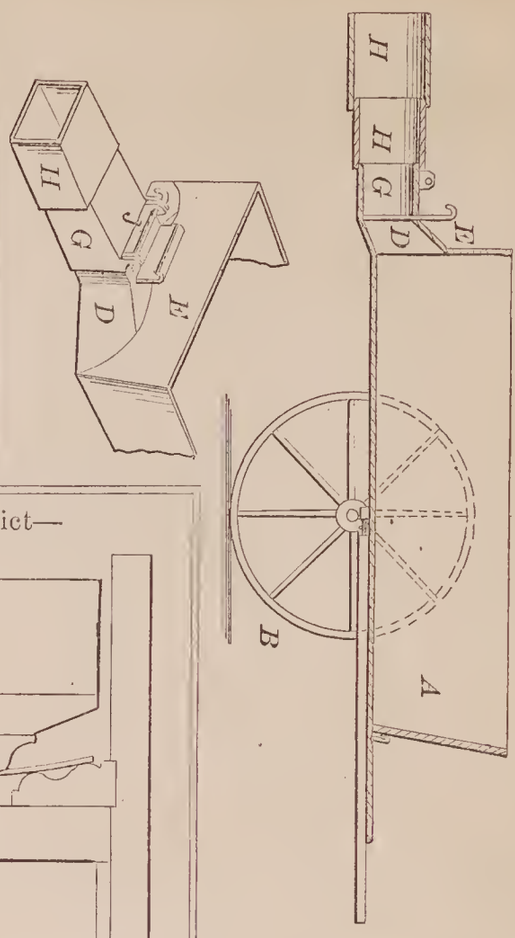
73682—J. H. White—*Hydro-Carbon Burner.*



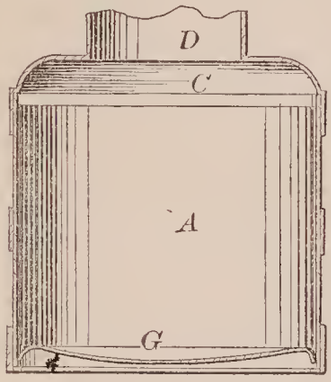
73683—P. Williams—*Cotton Press.*



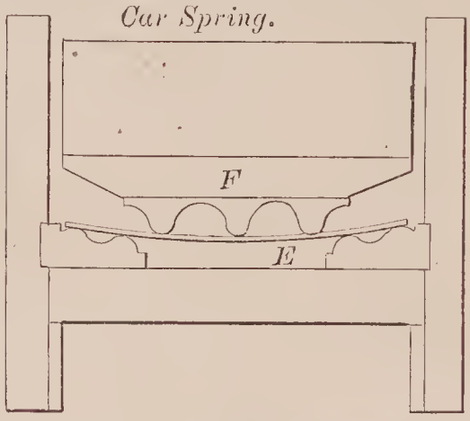
73684—J. H. Wood—*Wagon for Unloading Coal.*



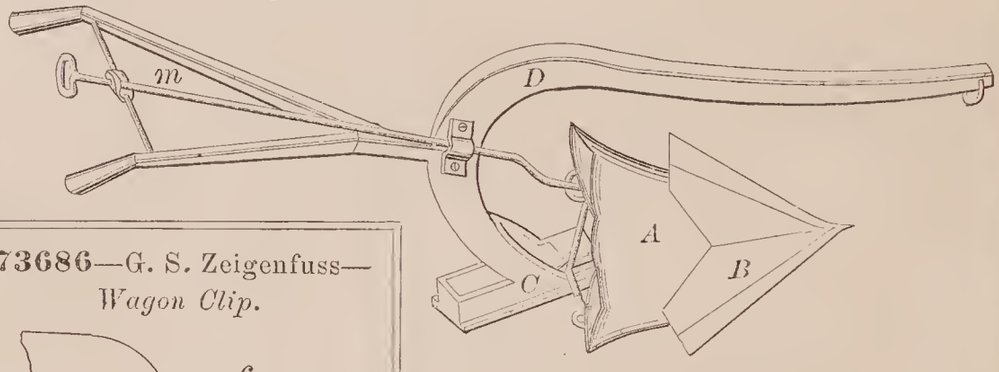
73687—E. Abbott—*Milk Can.*



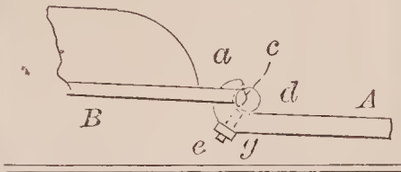
73690—E. U. Benedict—*Car Spring.*



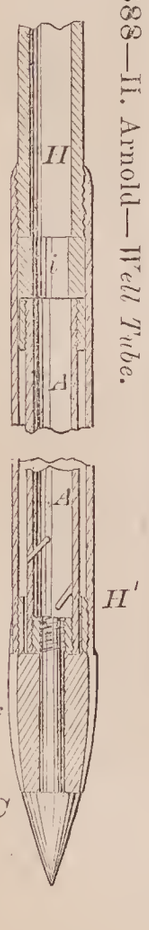
73685—A. Wright—*Plow.*



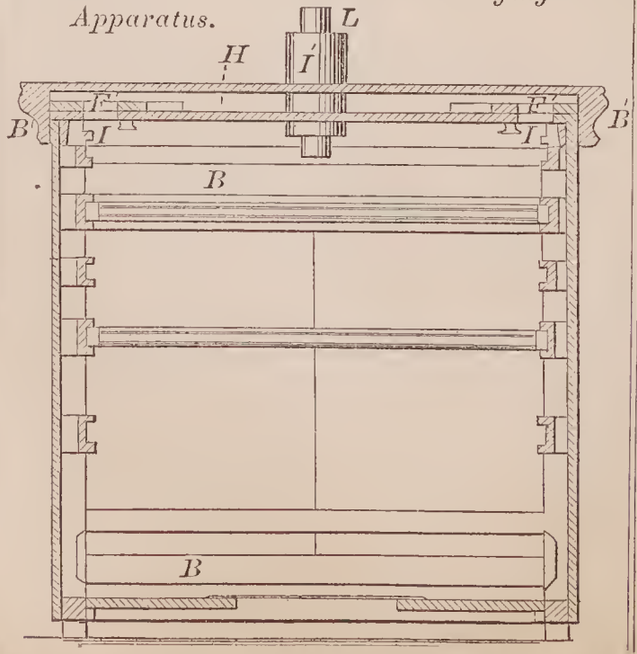
73686—G. S. Zeigenfuss—*Wagon Clip.*



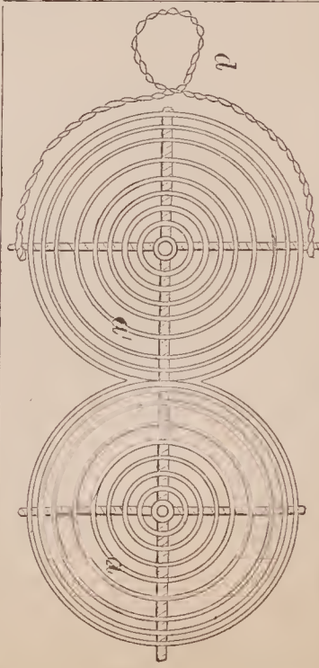
73688—H. Arnold—*Well Tube.*



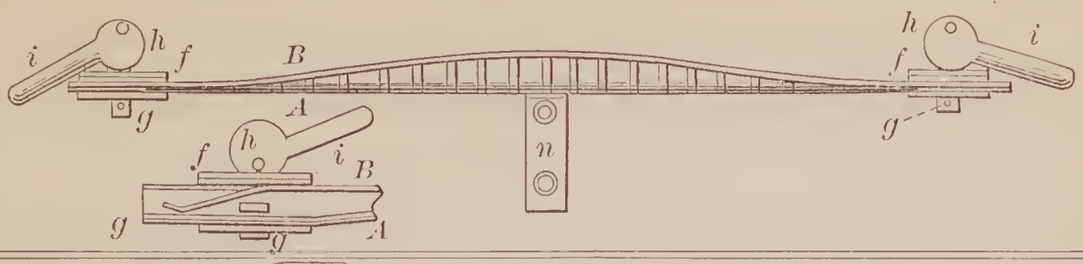
73691—D. K. Boswell—*Fruit Drying Apparatus.*



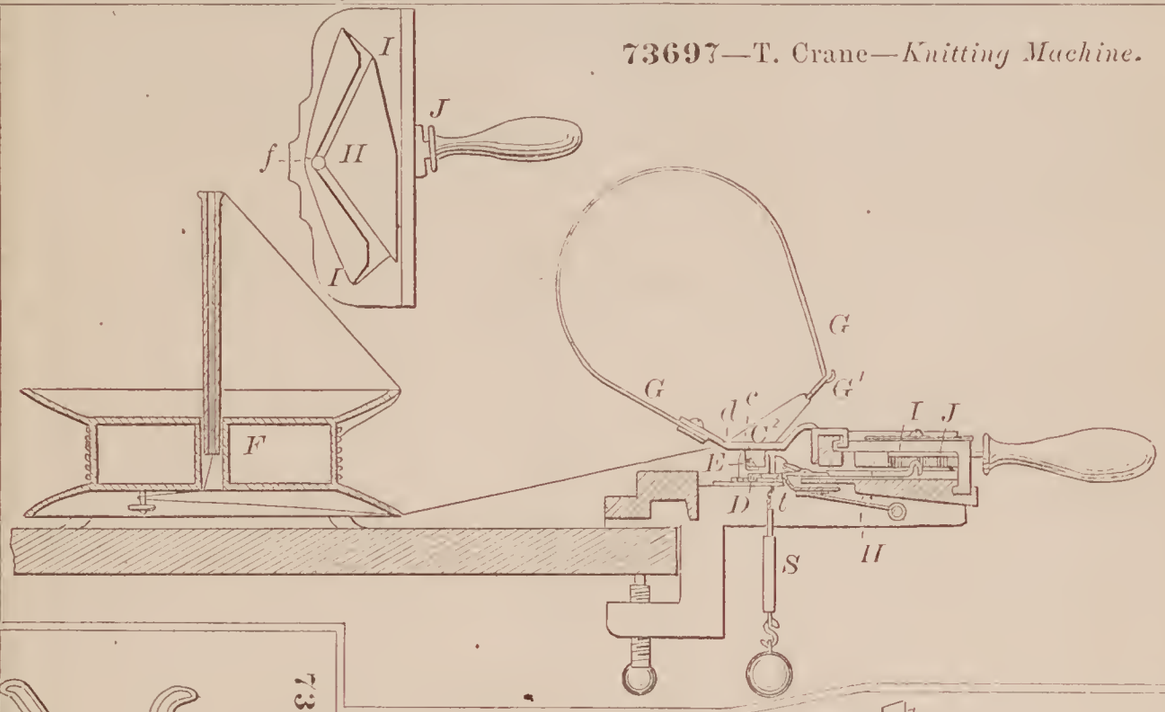
73692—F. Buckman—*Reversible Frying Rack.*



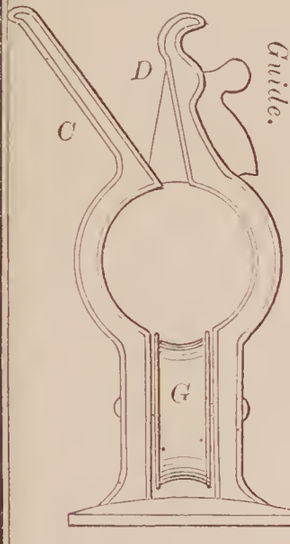
73693—Cilley & Spaulding—*For Moulding Paper Collars.*



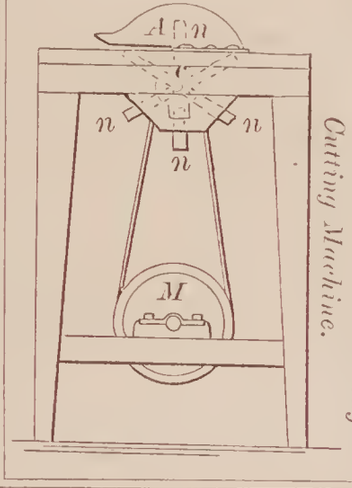
73697—T. Crane—*Knitting Machine.*



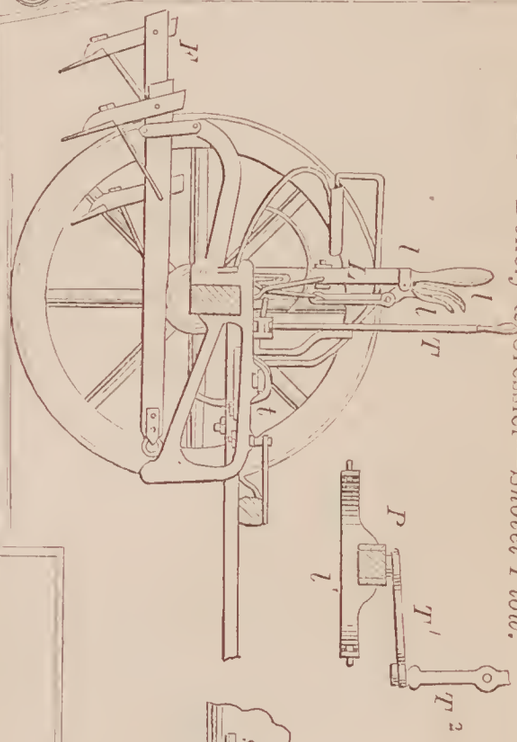
73698—W. G. Creamer—*Signal Rope Guide.*



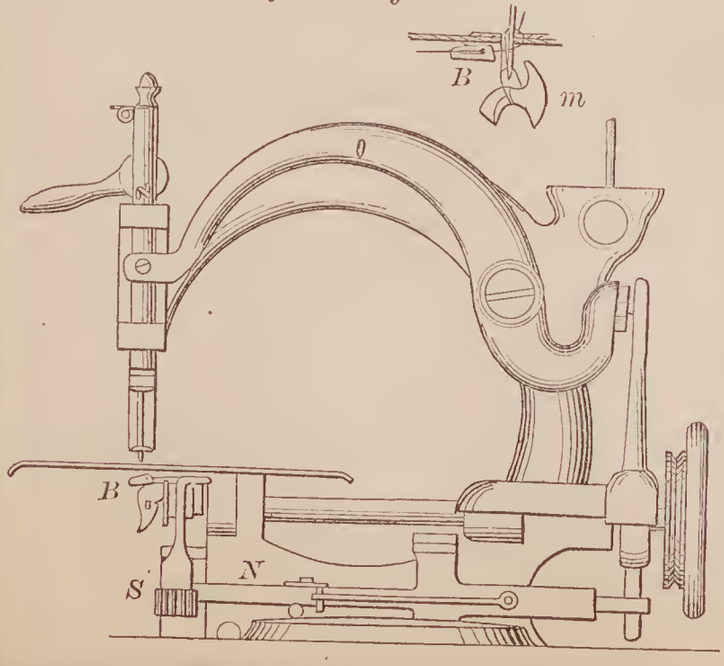
73695—Collins & Nixon—*Rag Cutting Machine.*

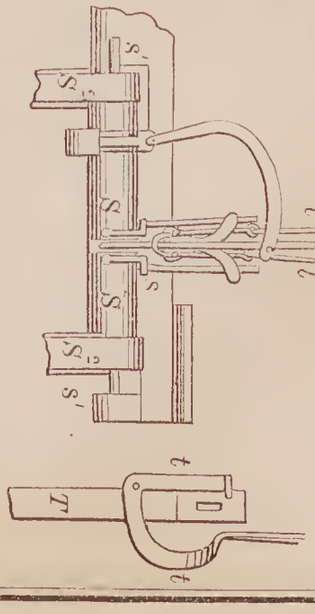


73699—Donely & Cressler—*Shovel Plow.*

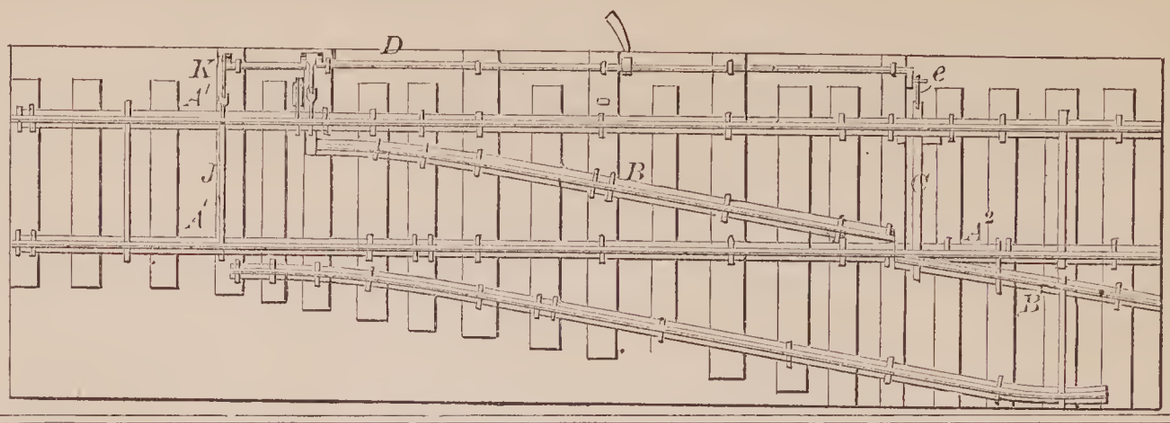


73696—E. Cornely—*Sewing Machine.*

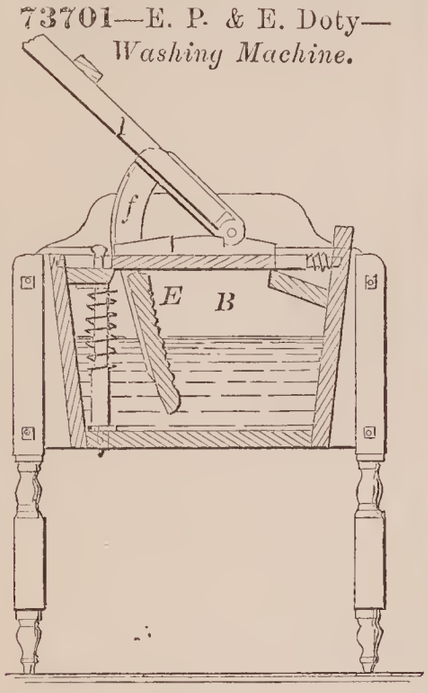




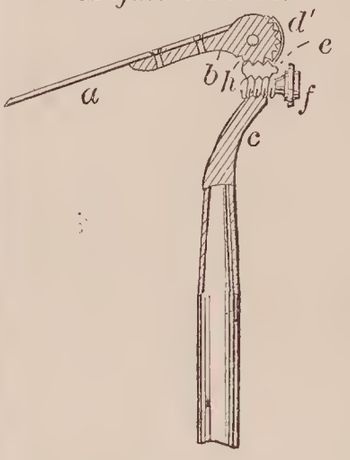
73700—M. H. Dooly—*Railway Switch.*



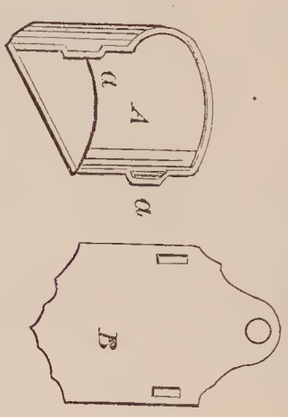
73701—E. P. & E. Doty—*Washing Machine.*



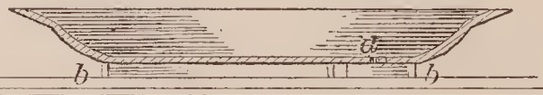
73702—T. Drake—*Adjustable Hoe.*



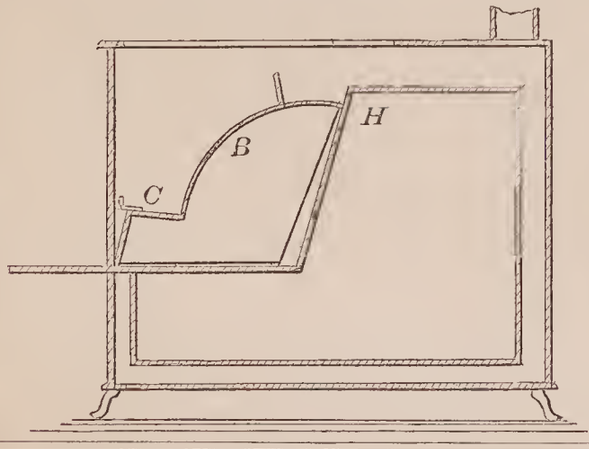
73706—J. A. Evarts—*Match Safe.*



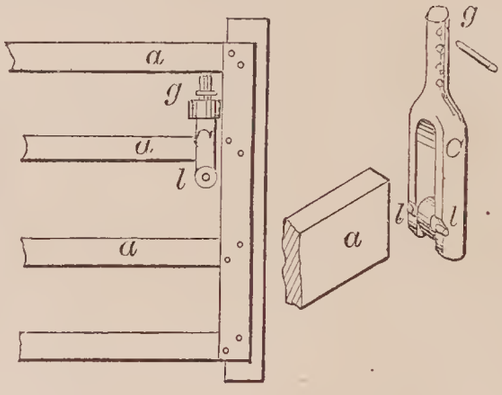
73703—R. G. Elder—*Baking Pan.*



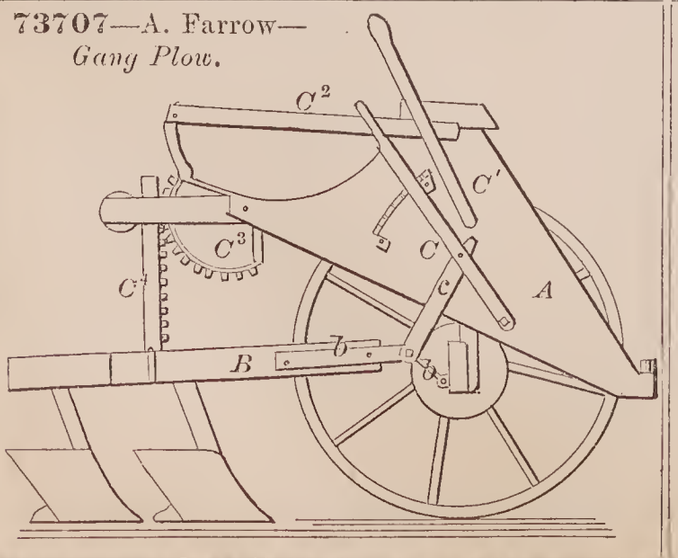
73705—L. Emmons—*Cooking Stove Grate.*



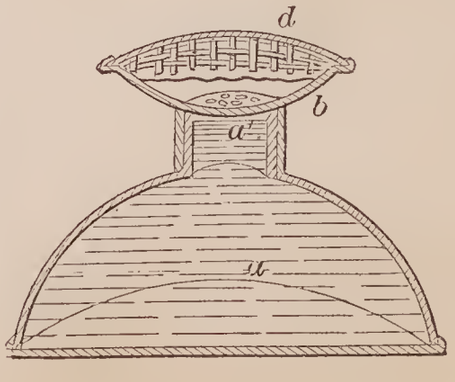
73704—C. H. Embree—*Gate.*



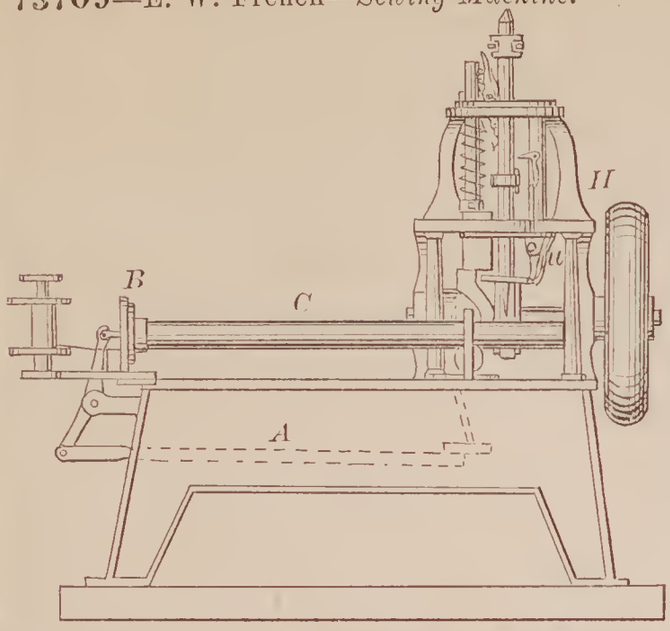
73707—A. Farrow—*Gang Plow.*



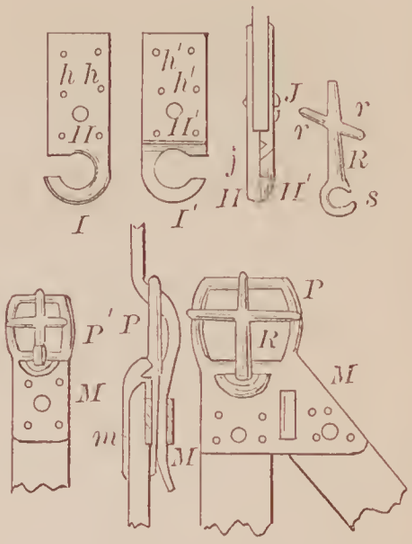
73708—J. M. Flagg—*Stamp Moistener.*



73709—E. W. French—*Sewing Machine.*

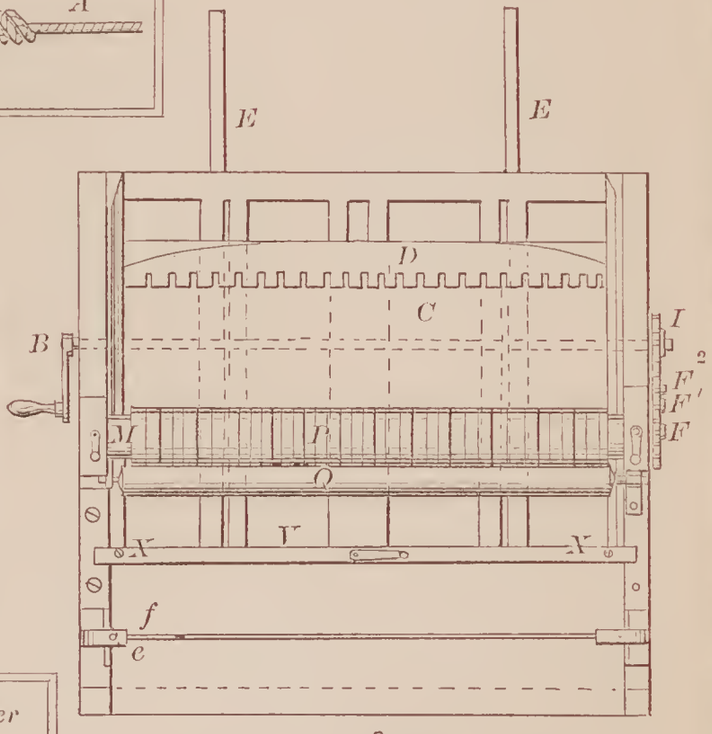


73711—Garrison & Stevens—*Halter.*

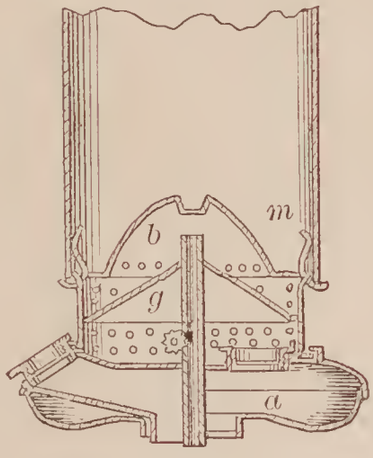


73713—T. Guyol—*Metallic Cotton Bale Tie.*

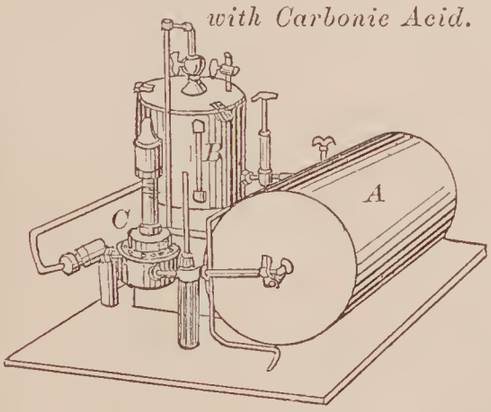
73714—J. Hadfield—*For Cutting Soap.*

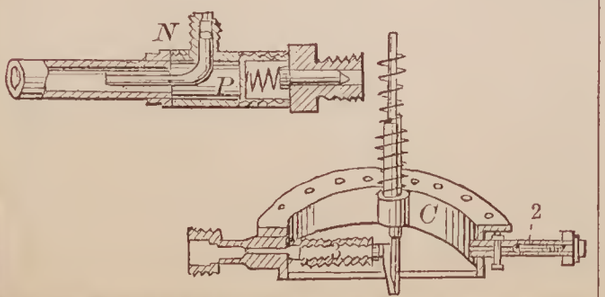


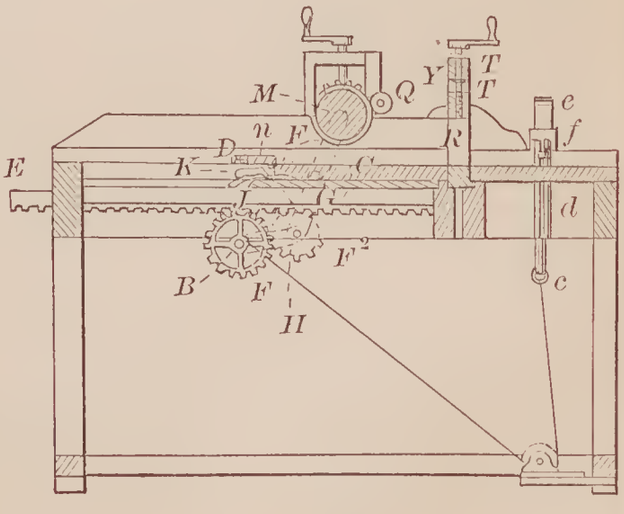
73710—J. A. Frey—*Lamp.*

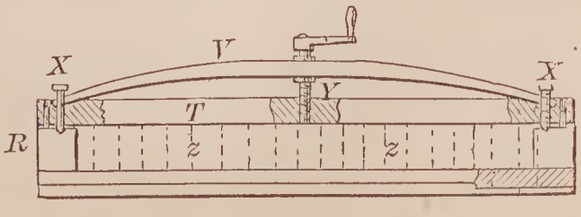


73712—R. Grant—*For Charging Water with Carbonic Acid.*

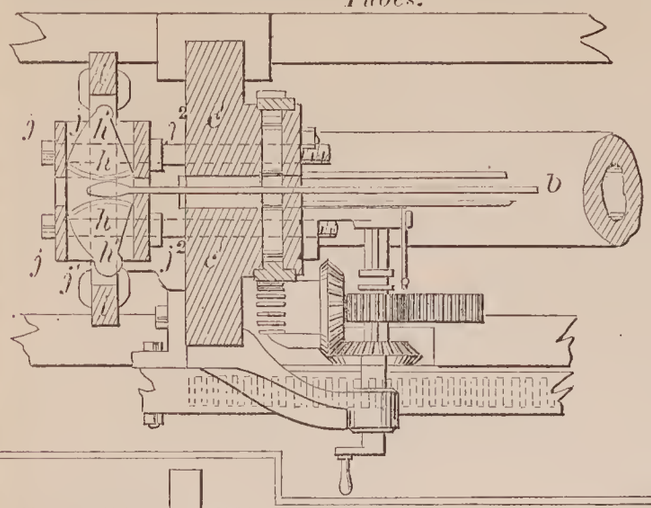




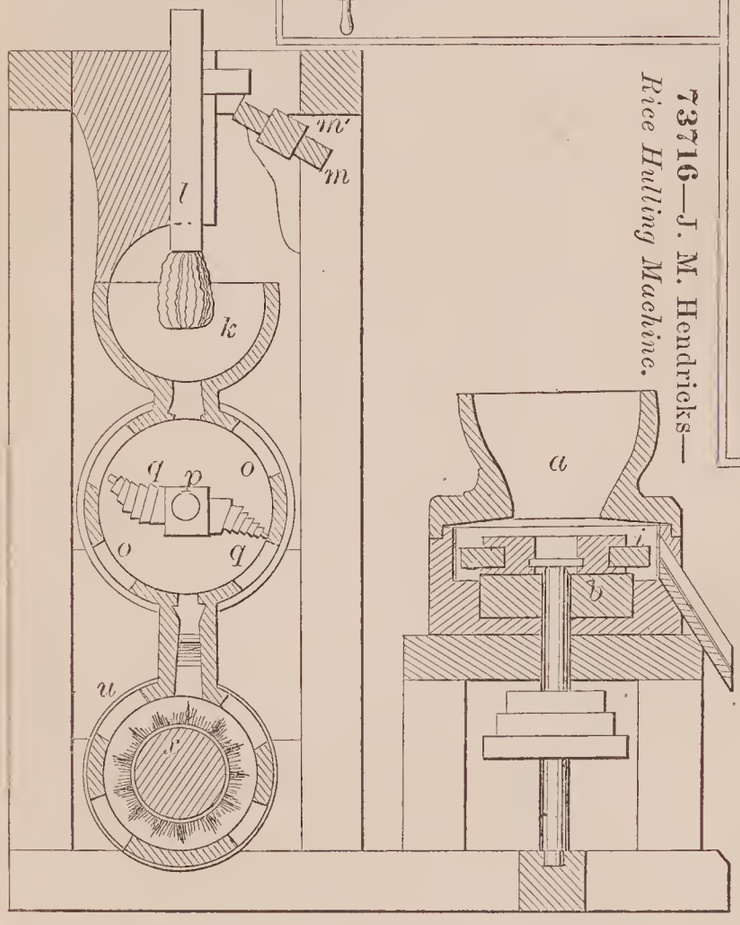




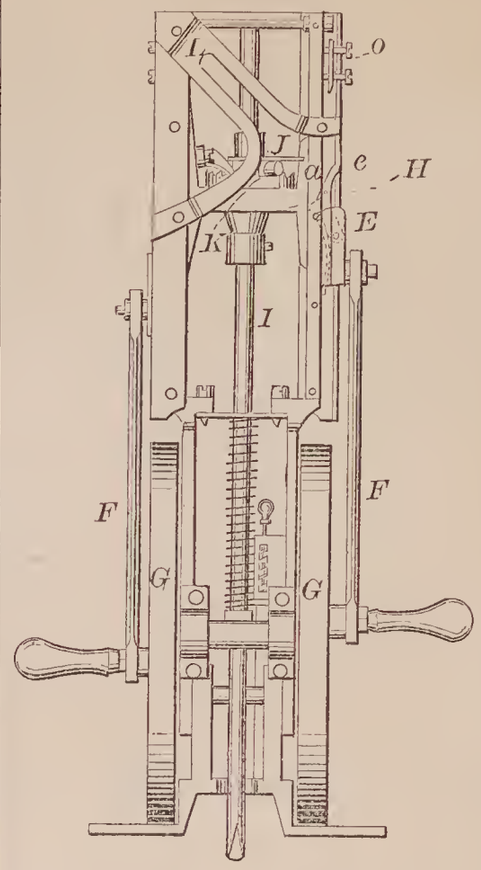
73715 G. P. Harding—*For Drawing Tapered Tubes.*



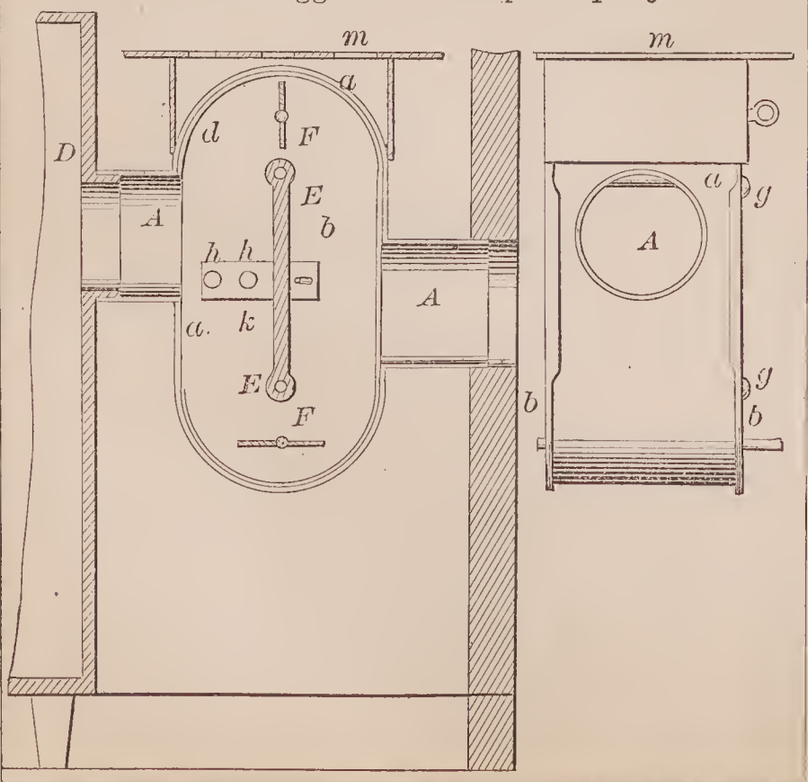
73716—J. M. Hendricks—*Rice Hulling Machine.*



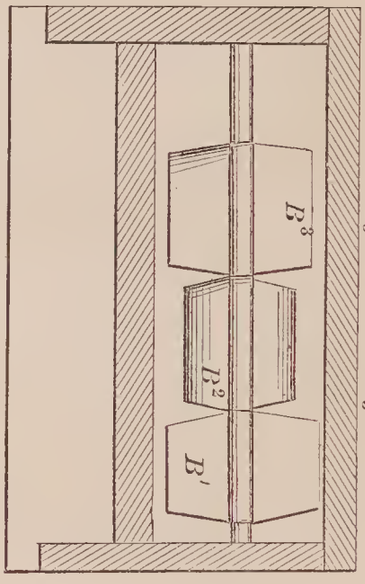
73717—C. W. Hermance—*Stone Drilling Machine.*



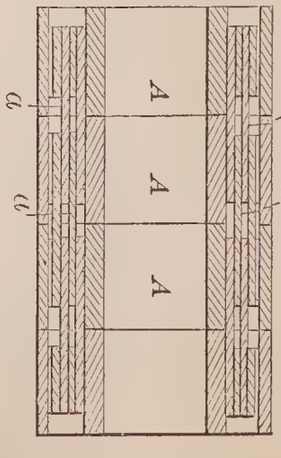
73718—O. M. Higgins—*Stove Pipe Coupling.*



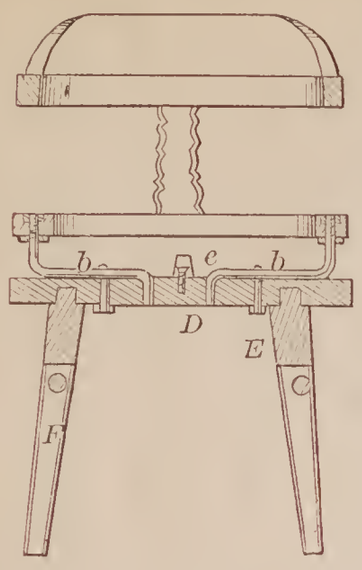
73719—A. Hitchcock—*Producing a Vibrating Swell in Organs.*



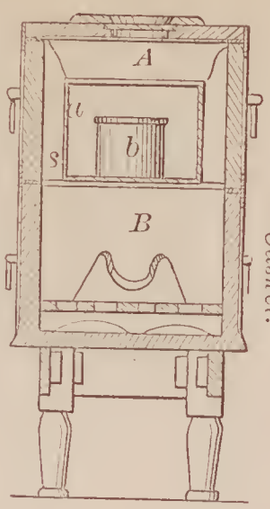
73720—M. V. B Howe—*Wood Bending Machine.*



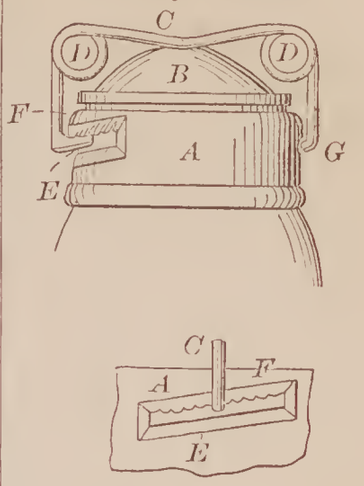
73721—M. V. B. Howe—*Tilting Chair Seat.*



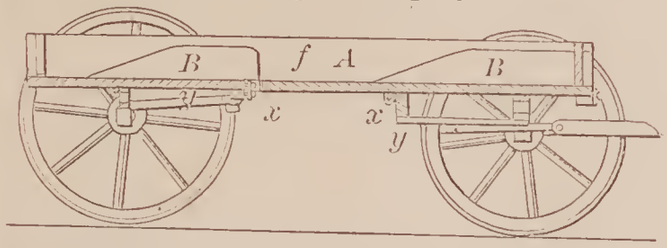
73722—C. H. Kimball—*Corpse Preserving Casket.*



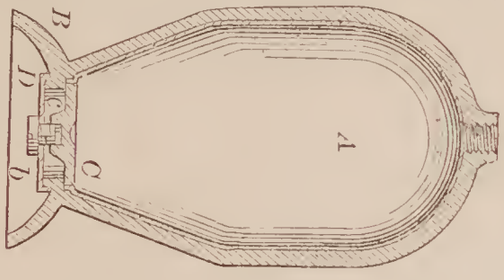
73724—W. L. Imlay—*Closing Fruit Jars.*



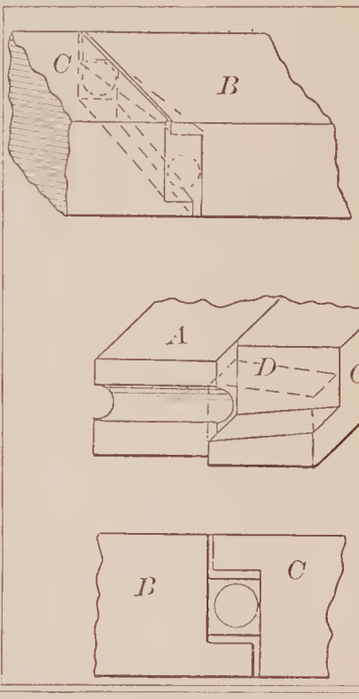
73725—A. A. Jennings—*Dumping Cart.*



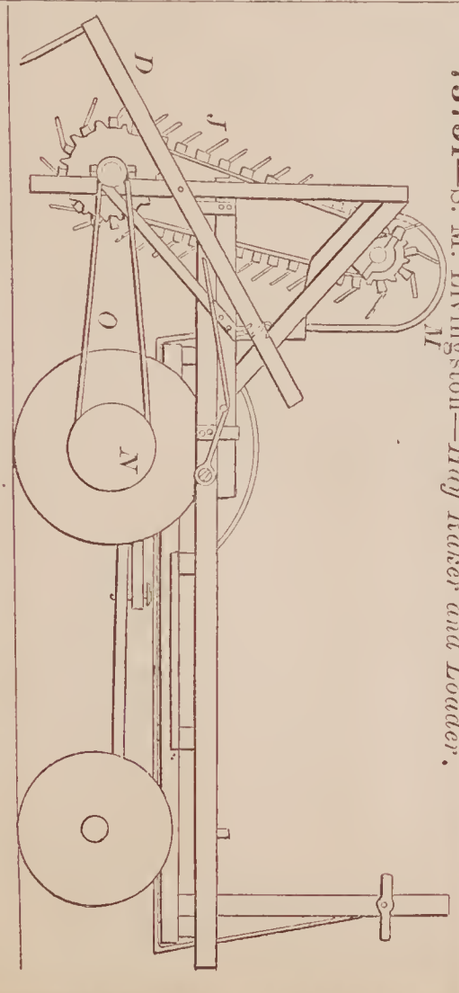
73726—J. C. Johnson—*Soda Fountain.*



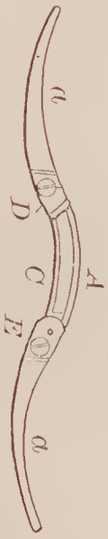
73728—C. Kane—*Die for Heading Bolts.*



73731—S. M. Livingston—*Hay Raker and Loader.*

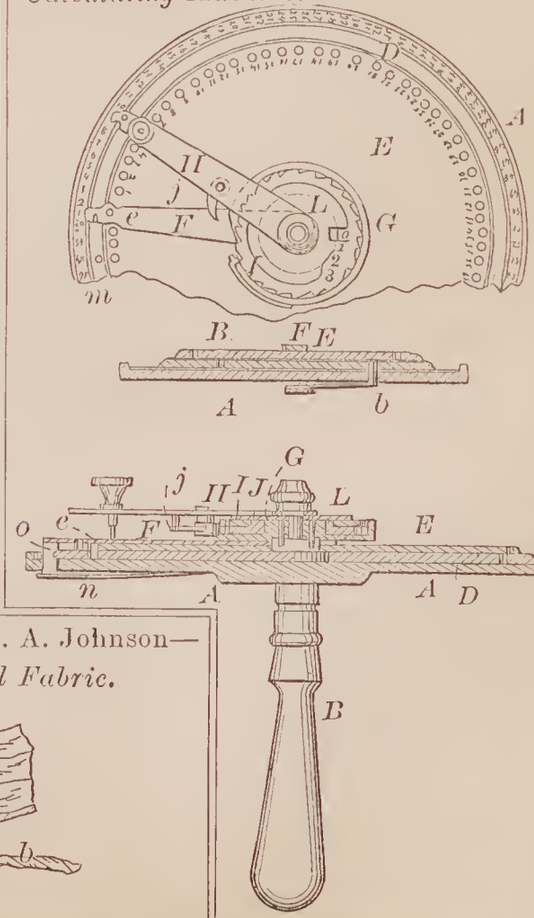


73723—S. T. Hutchins—*Spoke Share.*

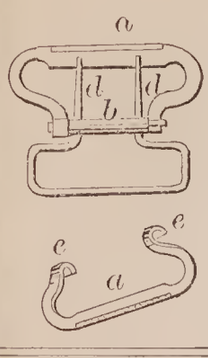


73727—M. A. Johnson—*Felted Fabric.*

73732—Loomis & Johnson—*Calculating Machine.*

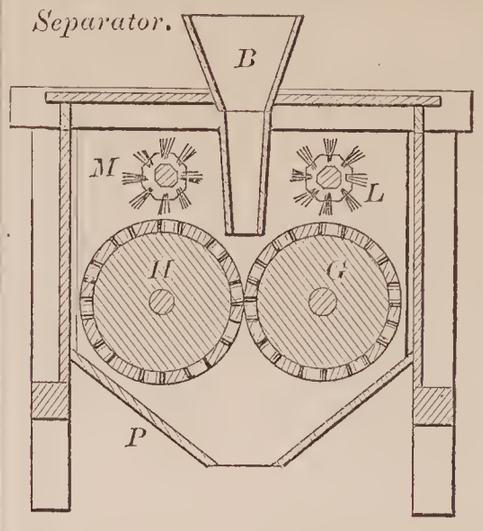


73734—F. W. Maes—*Buckle.*

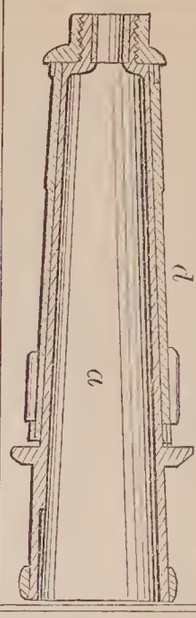


73735—H. S. Magrane
Button Fastening.

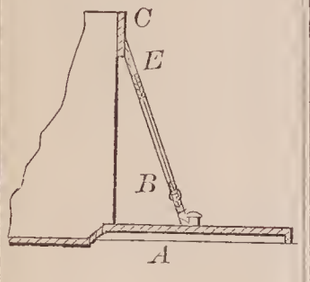
73736—T. H. McCulloch—*Grain Separator.*



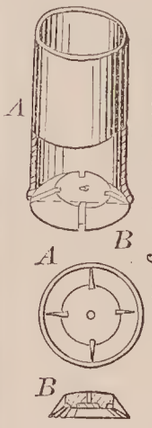
73738—R. M. McGrath—*Thimble Skein.*



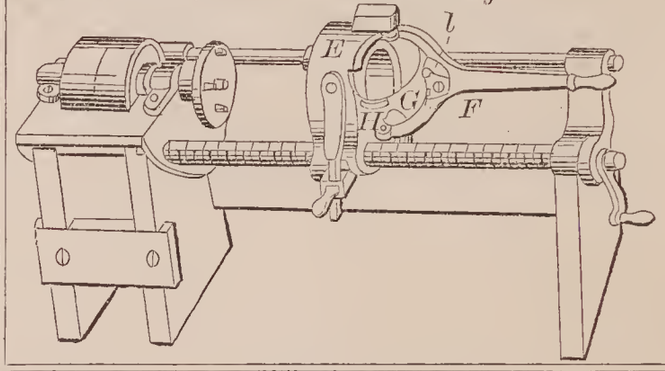
73737—
W. L. McDowell—
Ash Pit Cover for Stoves.



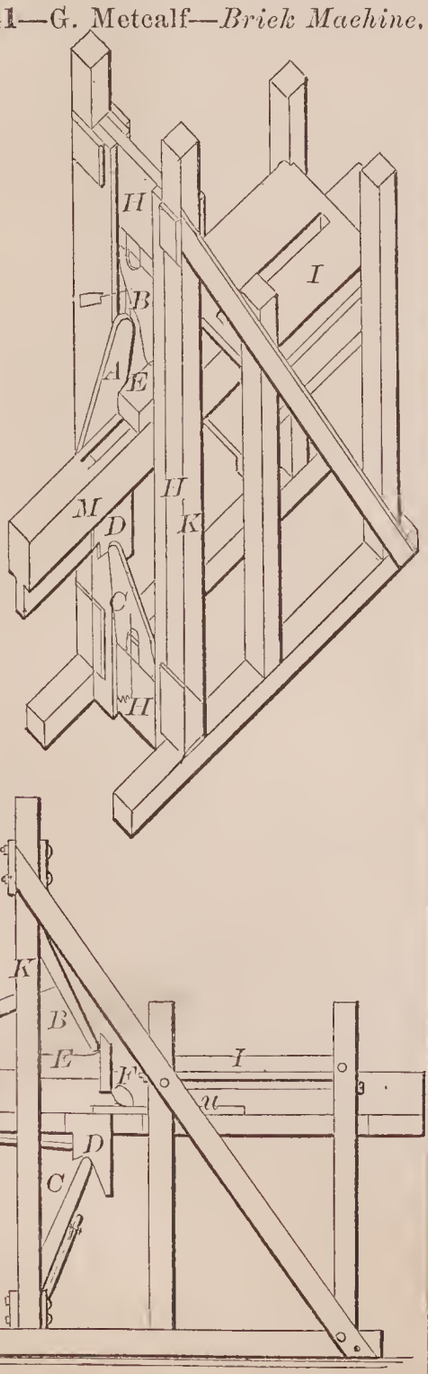
73739—H. Meigs, Jr.—*Priming Metallic Cartridges.*



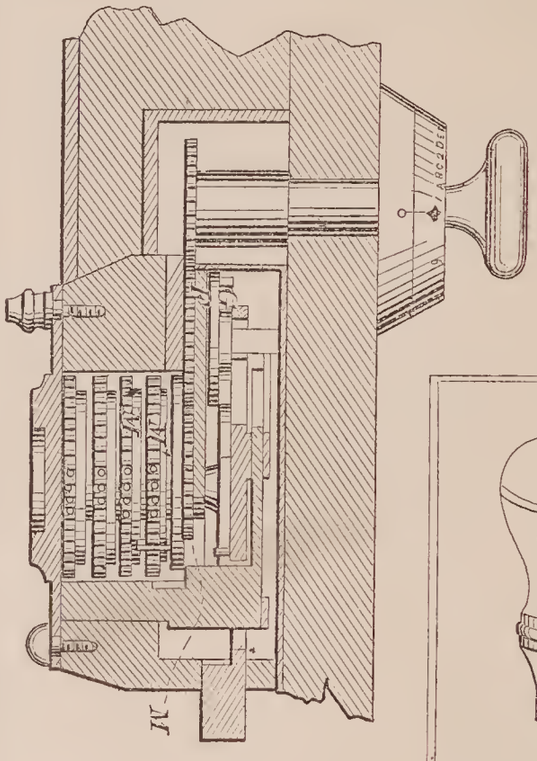
73740—H. Mellish—*For Making Wooden Bowls.*

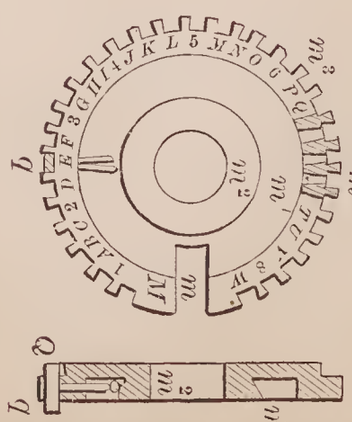


73741—G. Metcalf—*Brick Machine.*



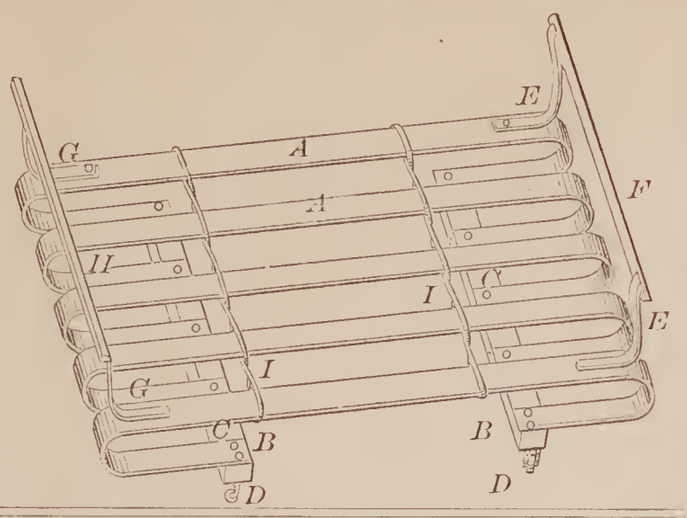
73742—L. W. Miller—*Permutation Lock.*



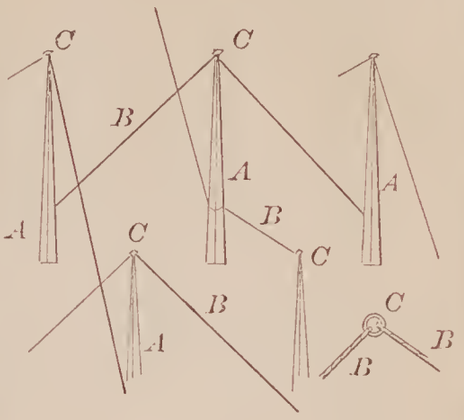


73743—M. H. Monroe—*Potato Masher.*

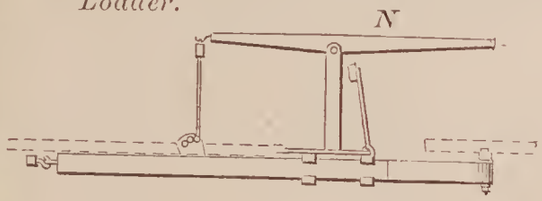
73744—A. W. Newell—*Spring Bed Bottom.*

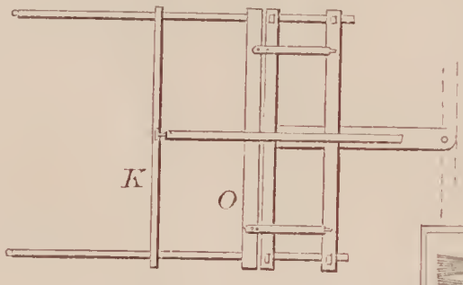


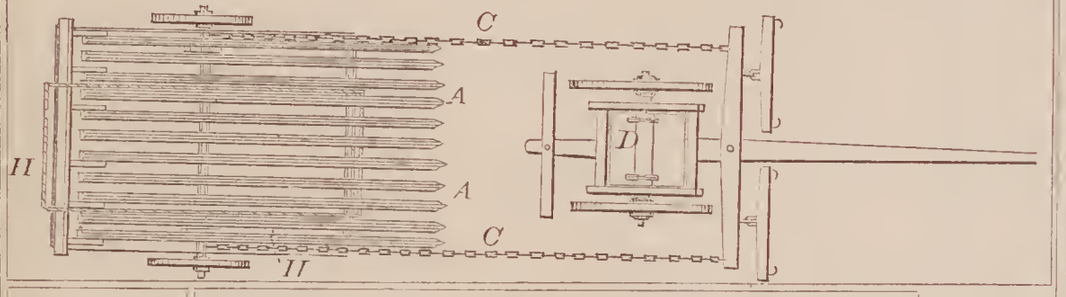
73750—Olendorf & Parshall—*Poling Hops.*



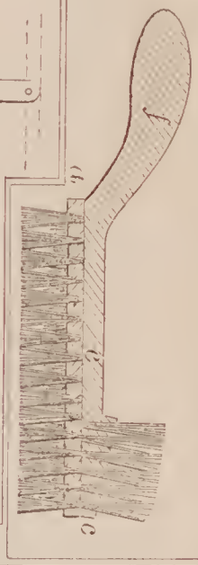
73747—W. T. Nichols—*Hay Raker and Loader.*



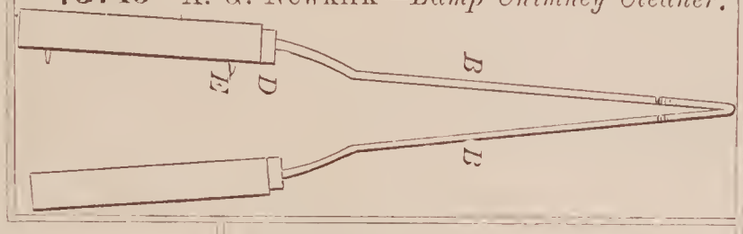




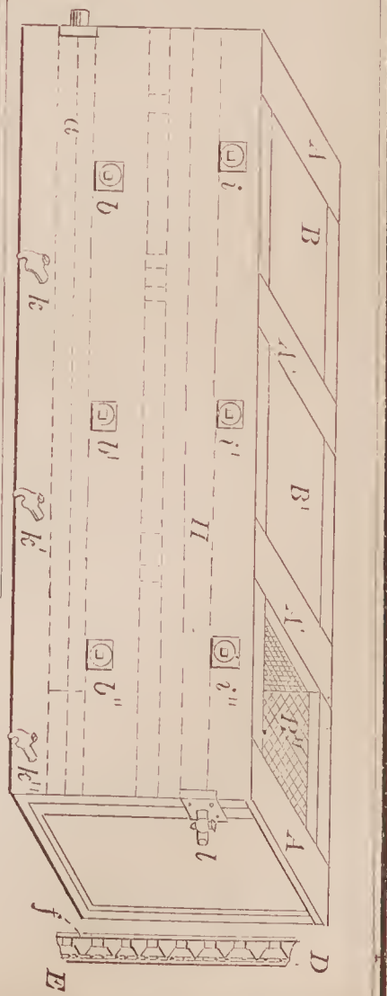
73746—H. E. Newton—*Blacking Brush.*



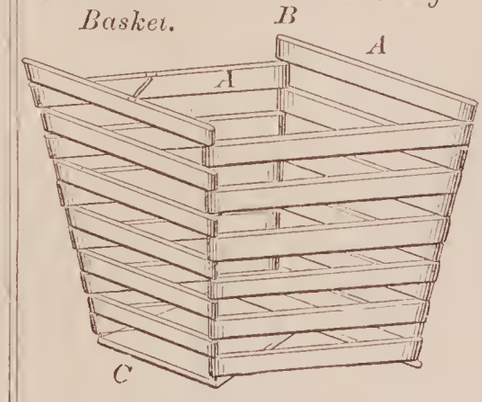
73745—A. G. Newkirk—*Lamp Chimney Cleaner.*



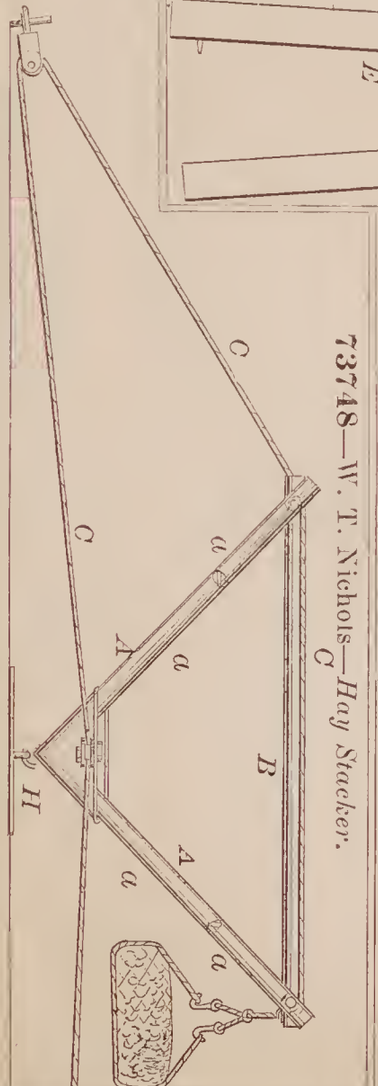
73751—G. T. Palmer—*Filter.*

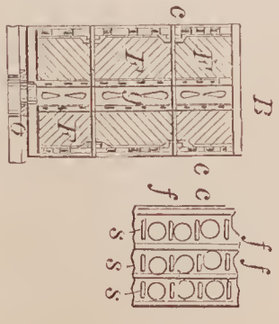


73749—A. M. Olds—*Folding Basket.*

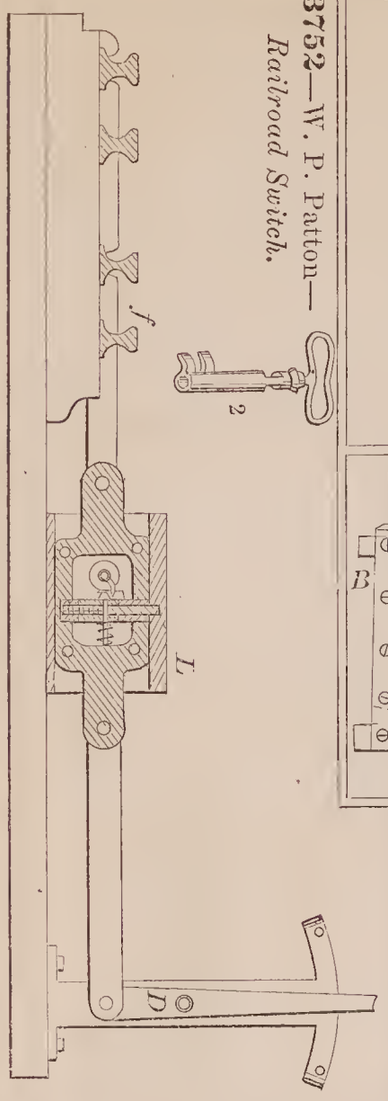


73748—W. T. Nichols—*Hay Stacker.*

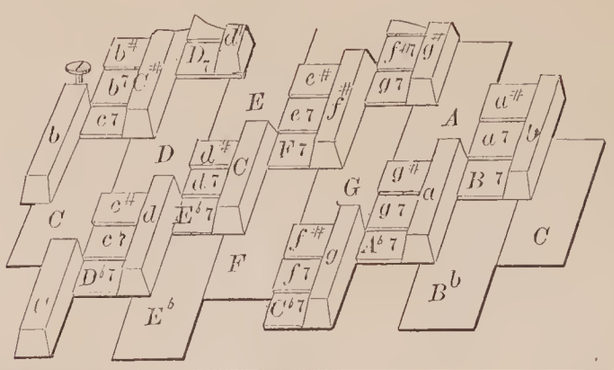




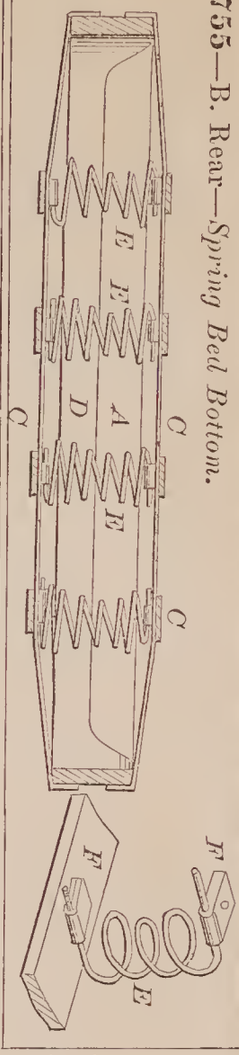
73752—W. P. Patton—*Railroad Switch.*



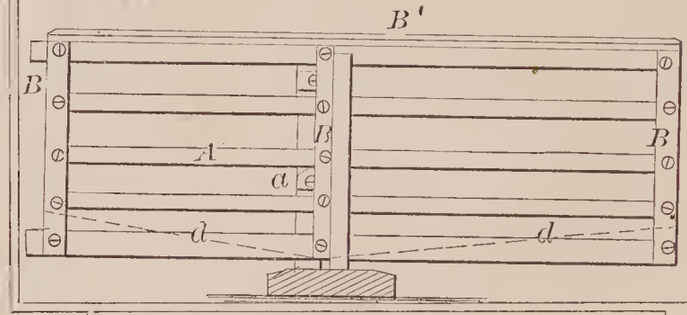
73753—H. W. Poole—*Organ Key Board.*



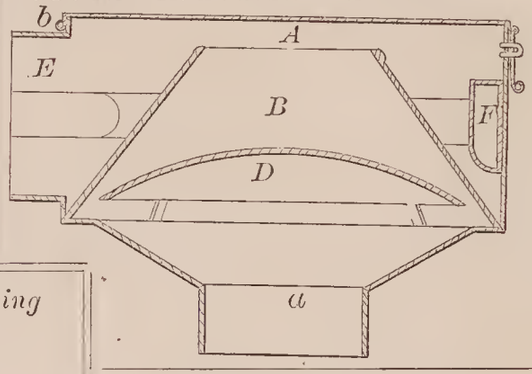
73755—B. Rear—*Spring Bed Bottom.*



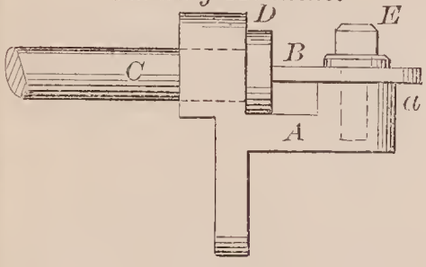
73761—A. Sheldon—*Fenee.*



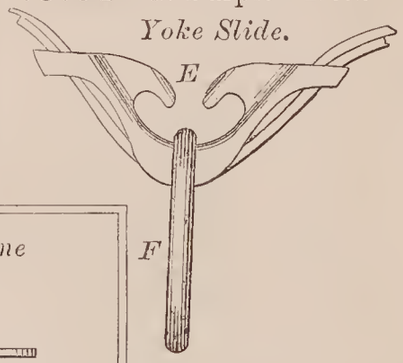
73762—A. F. Smith—*Stove Drum.*



73760—J. C. Shaw—*Condensing Carding Machine.*

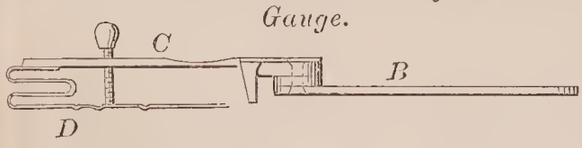


73754—G. Purple—*Neck Yoke Slide.*

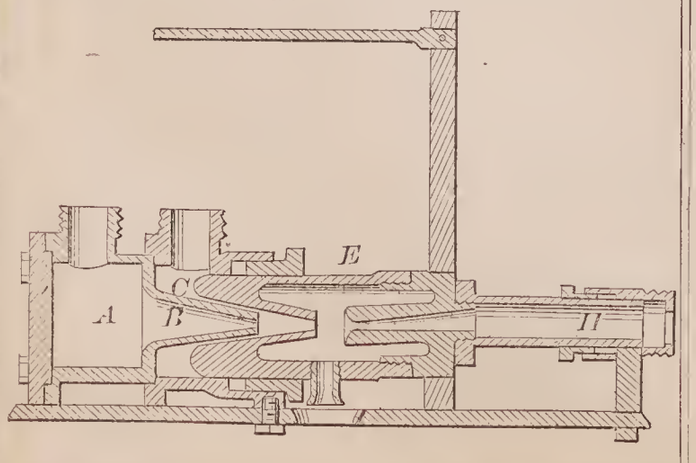


73758—Russell & Joline—*Anchor.*

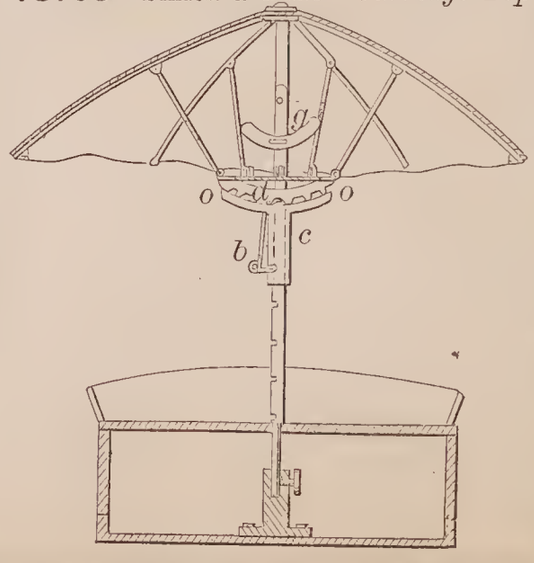
73759—T. S. Scranton—*Sewing Machine Gauge.*



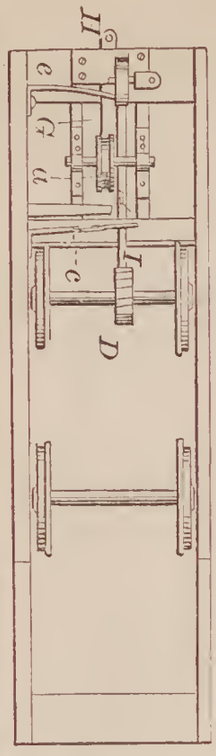
73757—S. Rue, Jr.—*Injector for Steam Generators.*



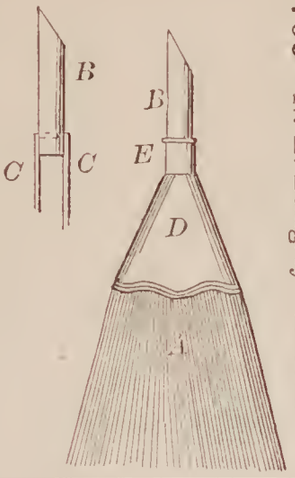
73763—Smith & Pike—*Carriage Top.*



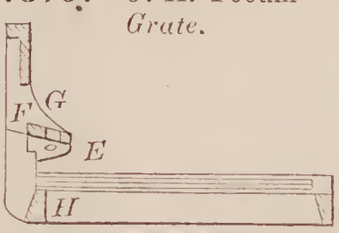
73764—J. Steger—*Car Starting Apparatus.*



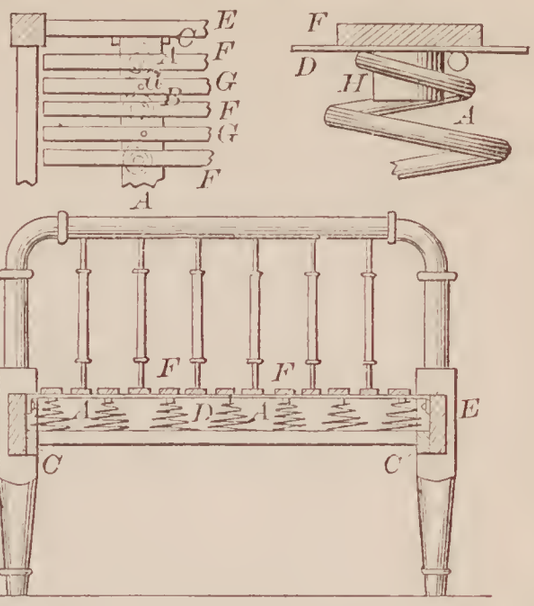
73769—N. E. Badgley—*Broom.*



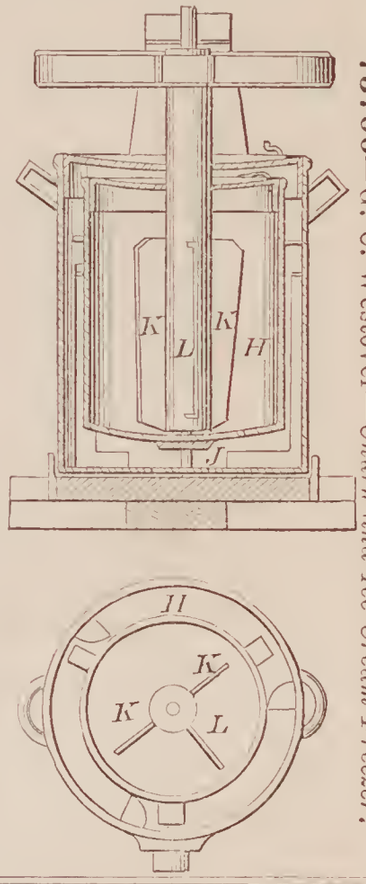
73767—J. H. Yocum—*Grate.*



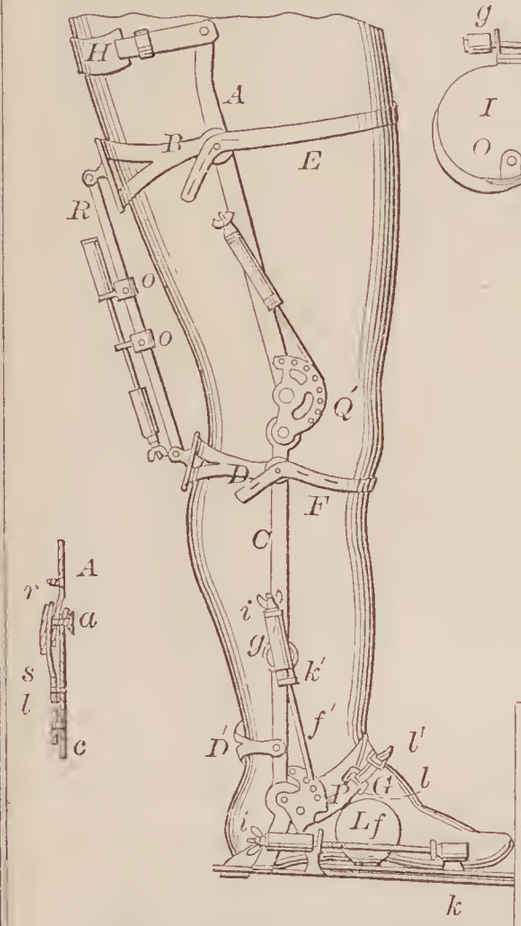
73770—A. M. Blake—*Spring Bed Bottom.*



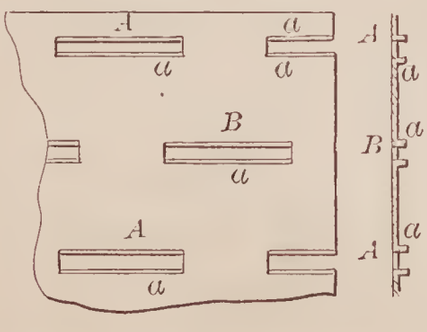
73766—G. C. Westover—*Churn and Ice Cream Freezer.*



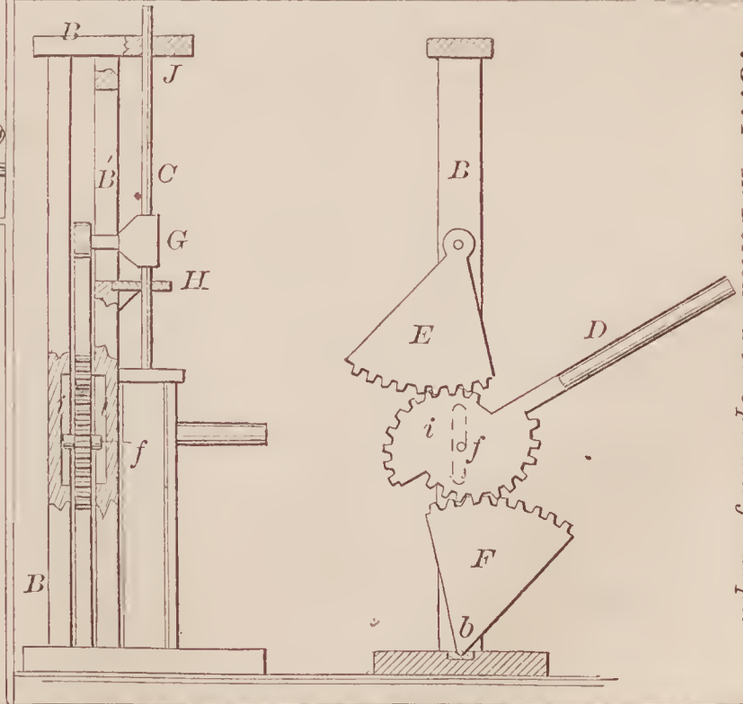
73768—H. R. Allen—*For Straightening Club Feet.*



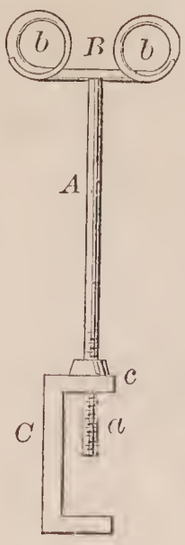
73765—J. F. Walter, Jr.—*Metallic Lathing.*



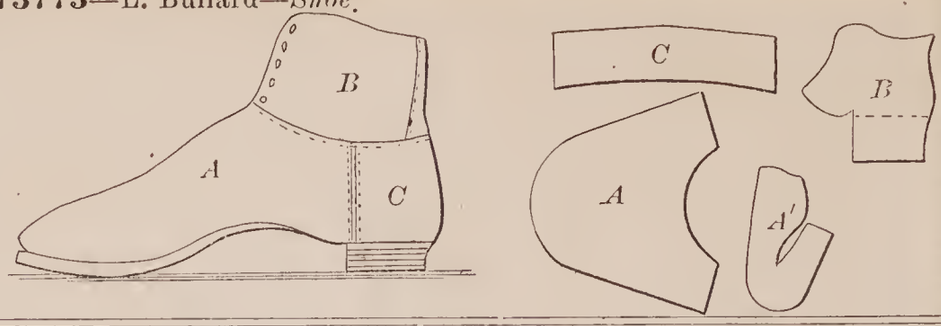
73771—E. Borton—*For Operating Pumps.*



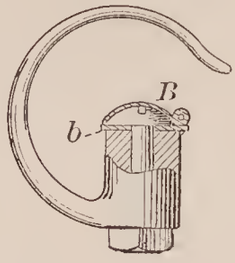
73772—C. A. & W. Bradford—*Rein Holder.*



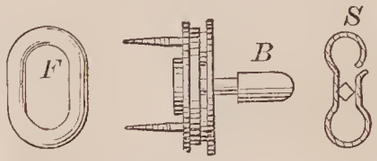
73773—L. Bullard—*Shoe.*



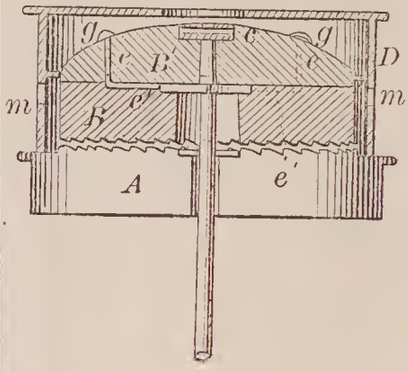
73777—J. S. Campbell—*Check Rein Hook.*

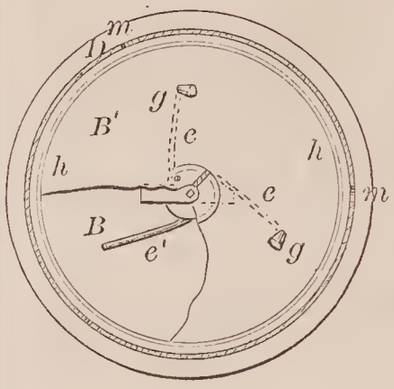


73778—S. P. Campbell—*Button for Carriage Holders.*

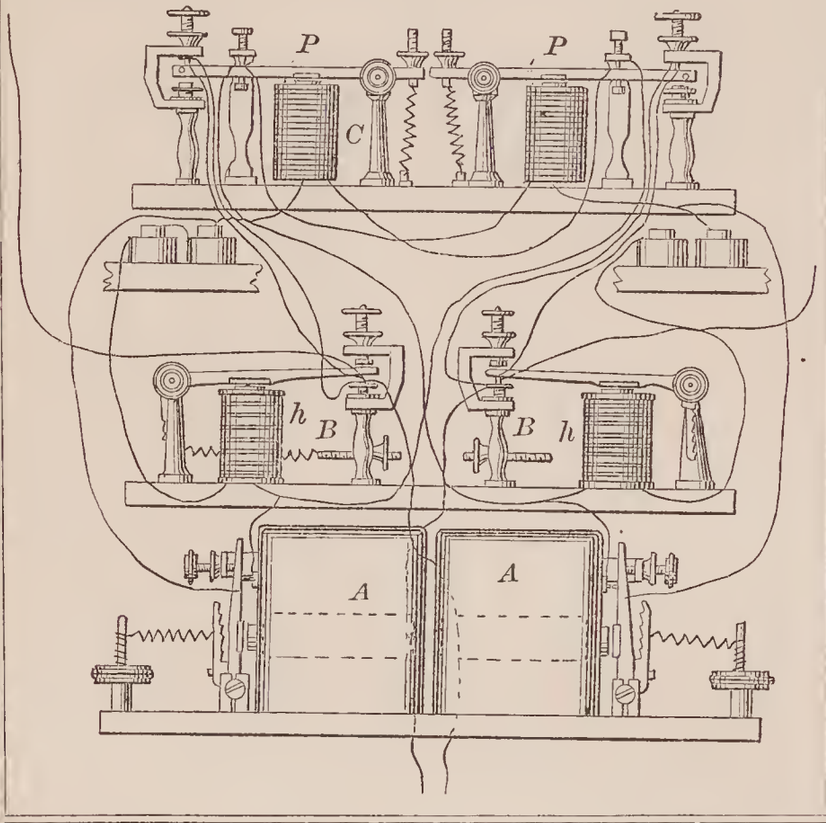


73776—J. Campbell—*Ventilating Mill Stones.*

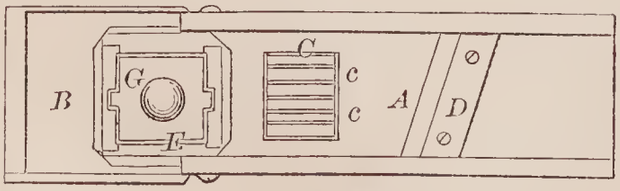


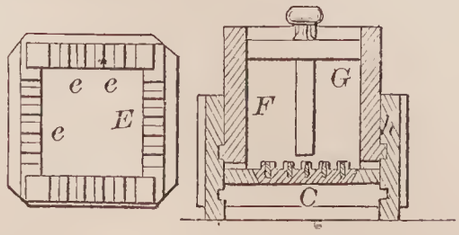


73774—J. H. Bunnell—*Telegraph Repeater.*

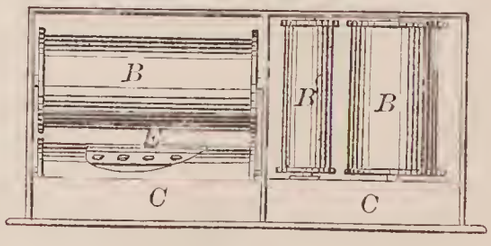


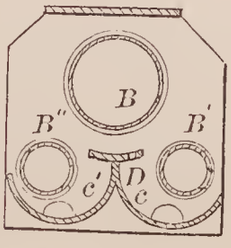
73775—J. Caldwell—*Vegetable Cutter.*



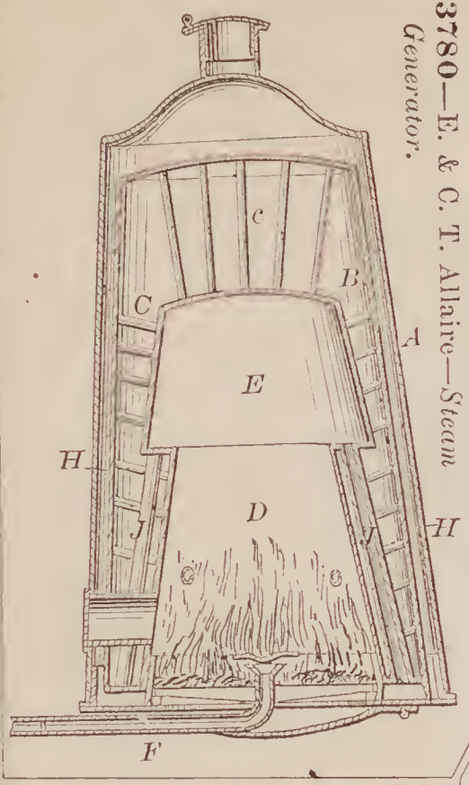


73779—B. F. Cauffman—*Cane Mill.*

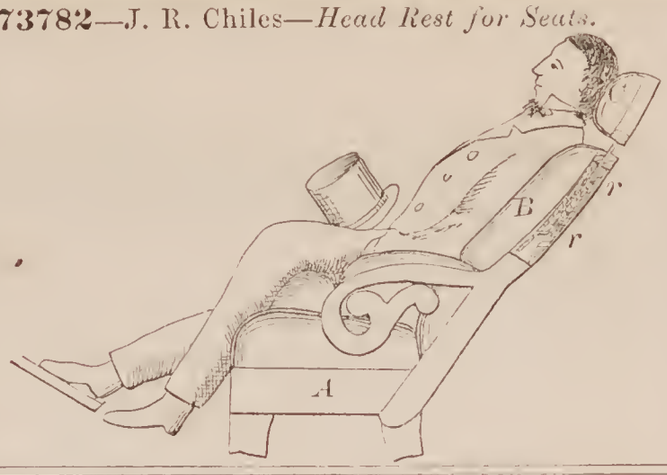




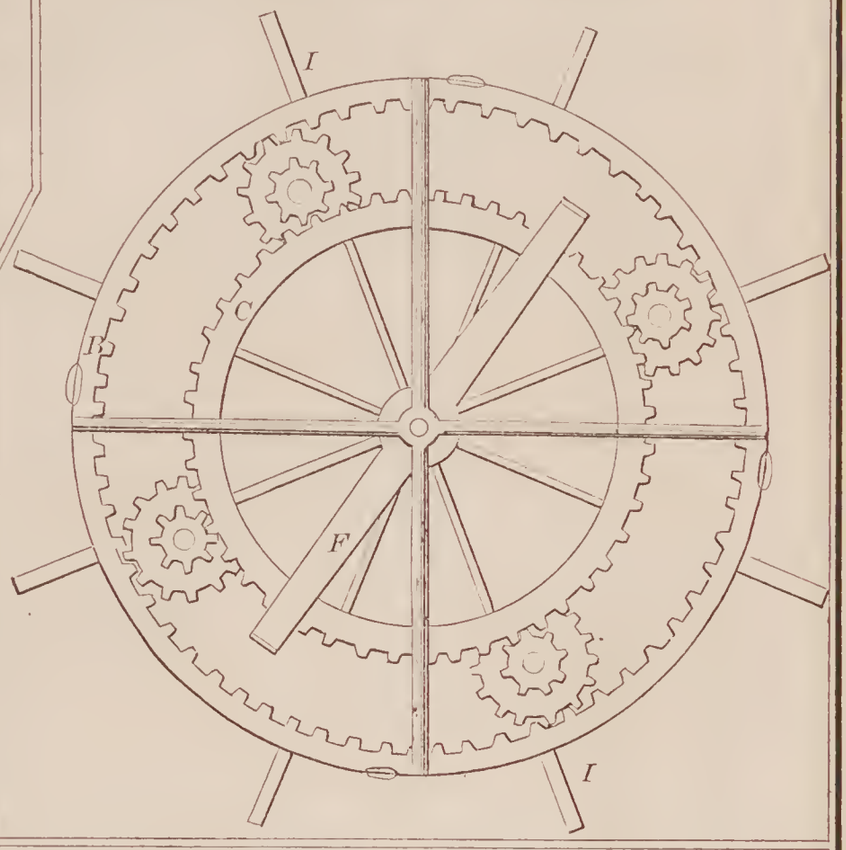
73780—E. & C. T. Allaire—*Steam Generator.*

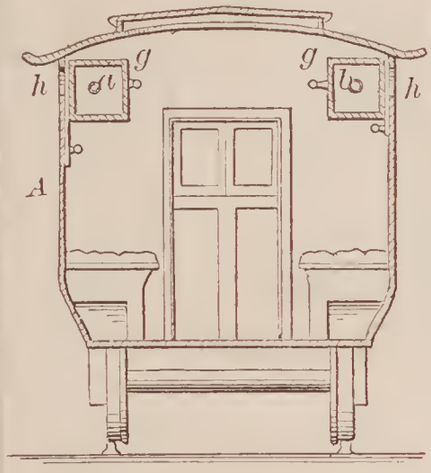


73782—J. R. Chiles—*Head Rest for Seats.*

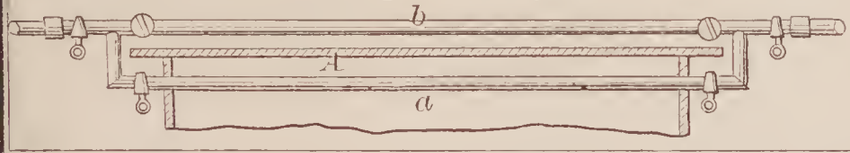


73783—R. Cromelien—*Paddle Wheel.*

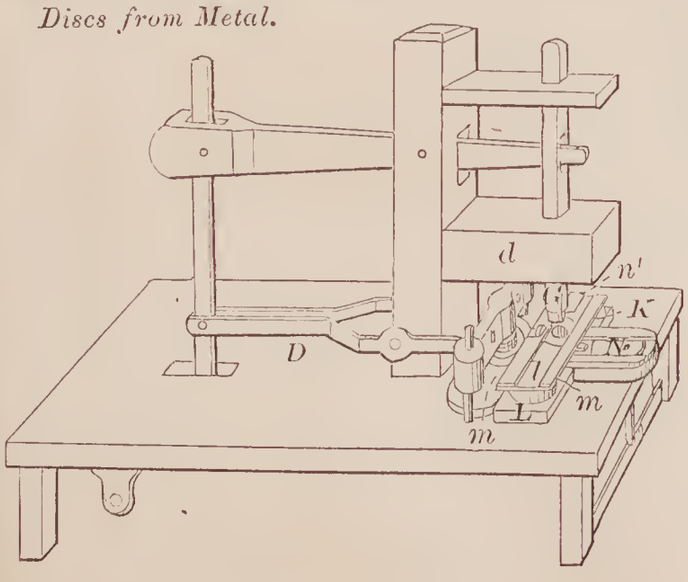


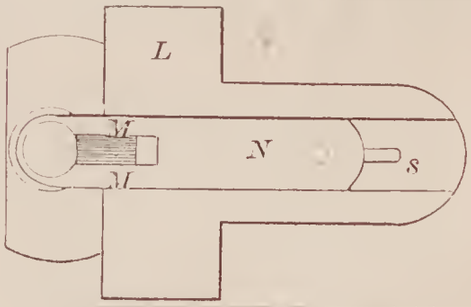


73781—R. A. Chesebrough—*Heating Railroad Cars.*

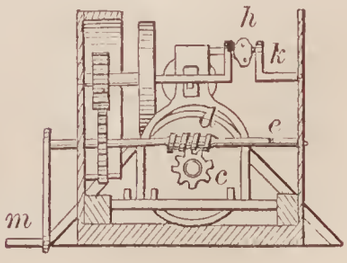


73784—C. Diedrichs—*Punching and Raising Discs from Metal.*

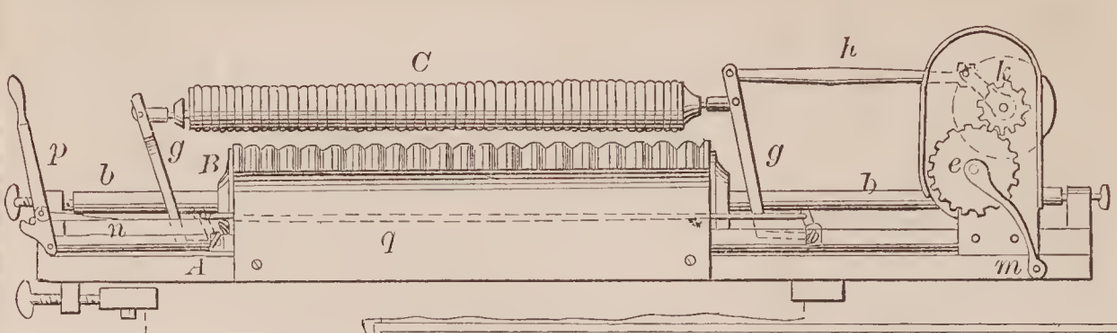


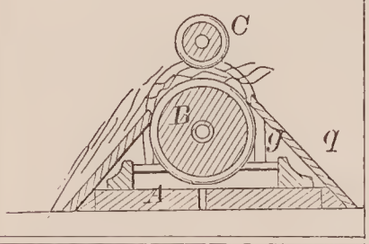


73785—W. Eberhard—*Washing Machine.*

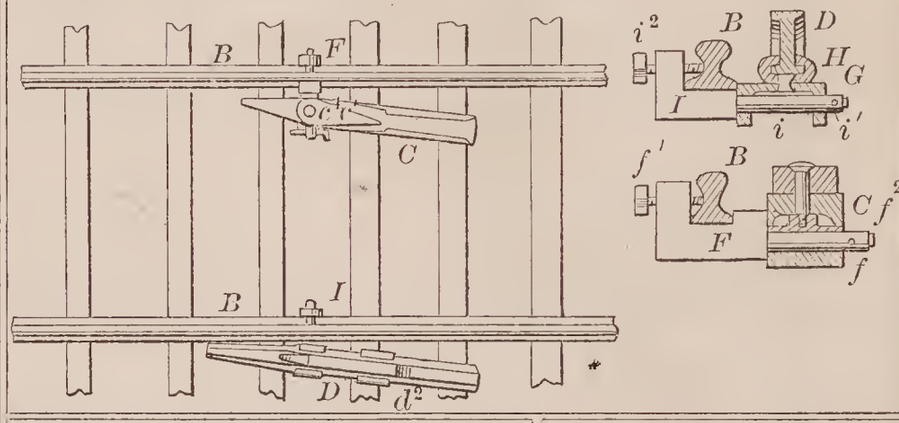


73785—*Continued.*

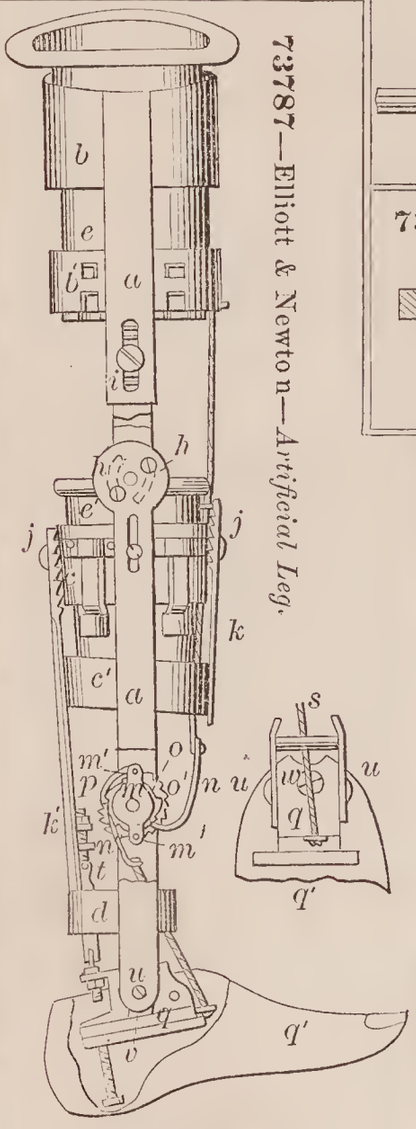




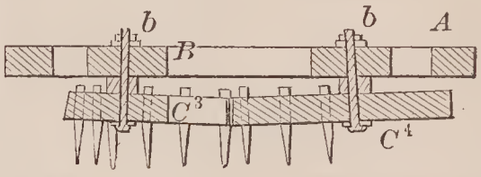
73789—Fisher & Cumming—*Car Replacer.*



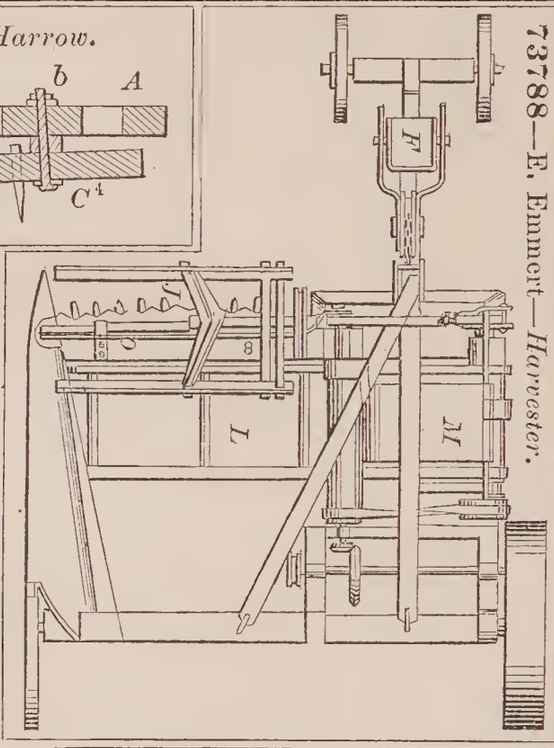
73787—Elliott & Newton—*Artificial Leg.*



73792—E Forney—*Harrow.*

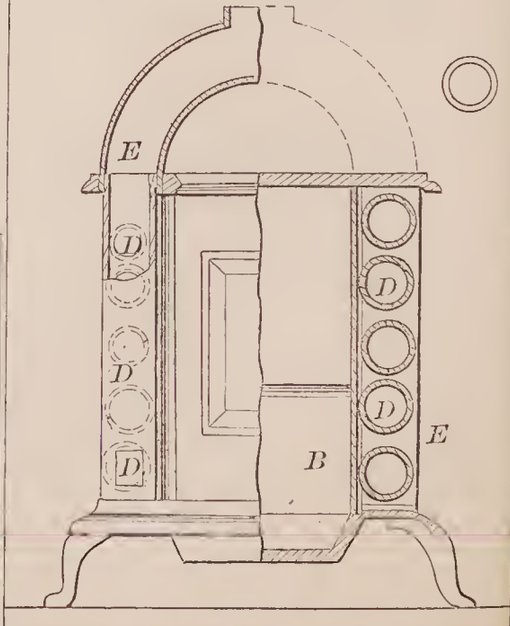


73788—E. Emmert—*Harvester.*

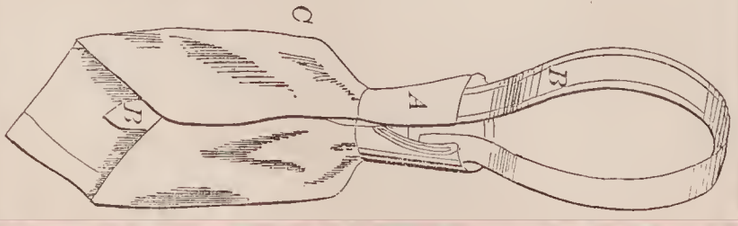


73791—A. C. Fletcher—*Bale Fastener.*

73793—T. J. Frazier—*Stove.*

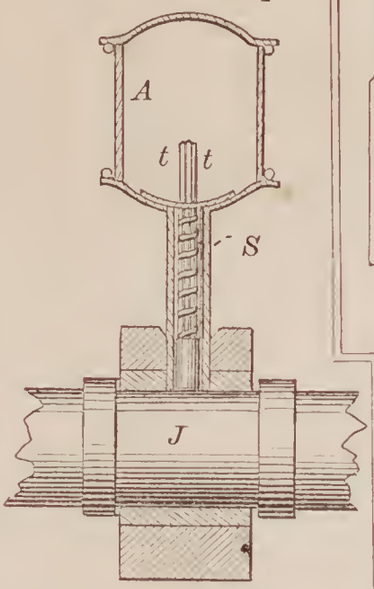


73790—Fisk & Flagg—*Neck Tie.*

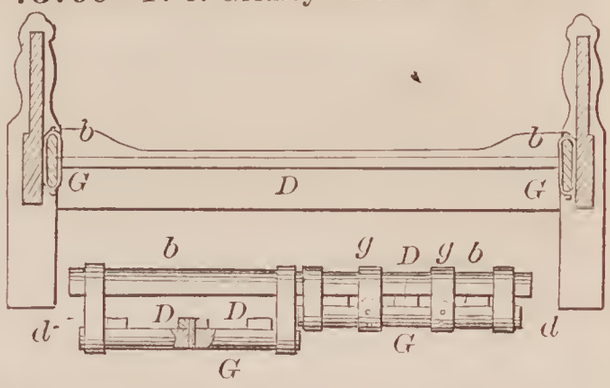


73794—G. W. Gail—*Tobacco Bag.*

73795—Gerdom & Schindler—*Oil Cup.*

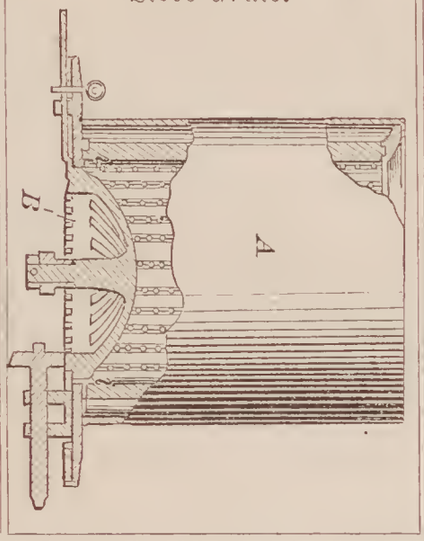


73799—F. C. Gridley—*Bed Bottom.*

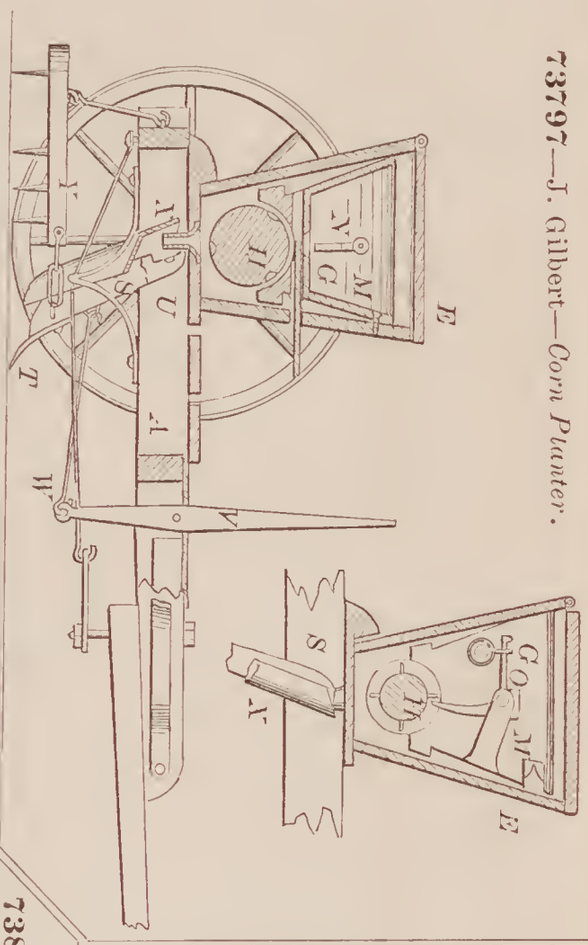


73798—J. Gleason—*Soldering Iron.*

73800—J. W. Griswold—*Stove Grate.*

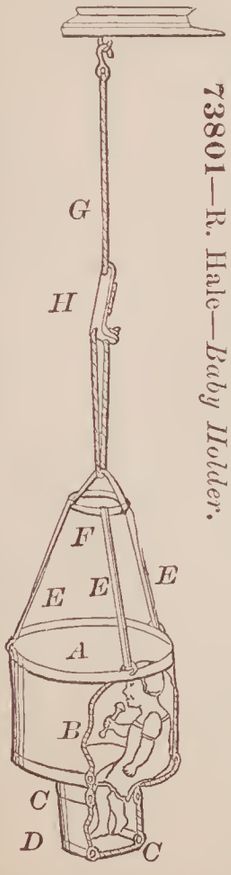


73797—J. Gilbert—*Corn Planter.*

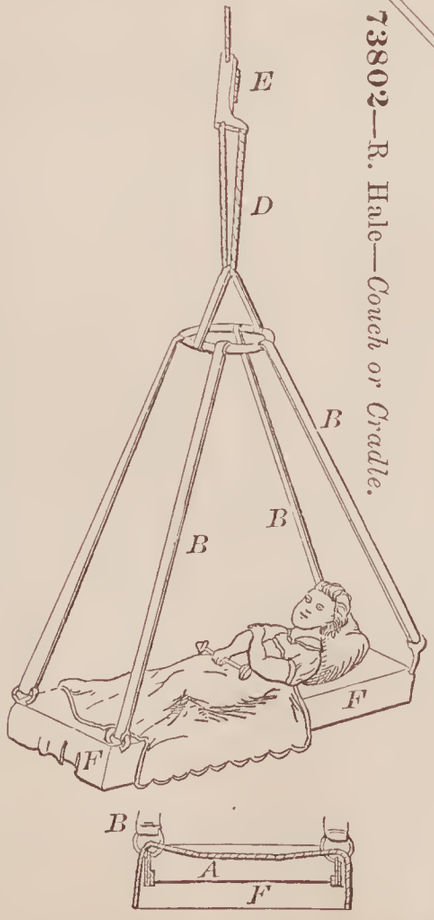


73796—E. F. Gilbert—*Screen Attachment for Wash Stands.*

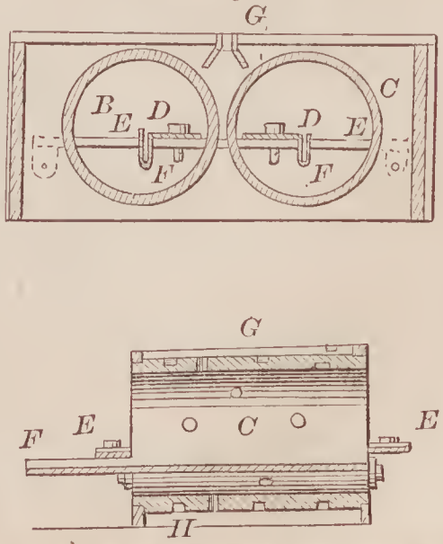
73801—R. Hale—*Baby Holder.*



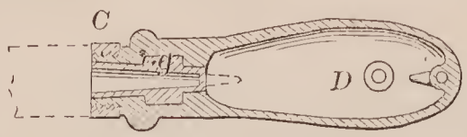
73802—R. Hale—*Couch or Cradle.*



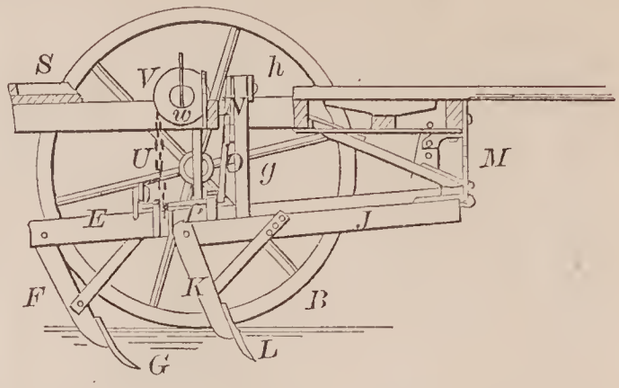
73803—Hancock & Leaman—*For Cleaning Grain.*

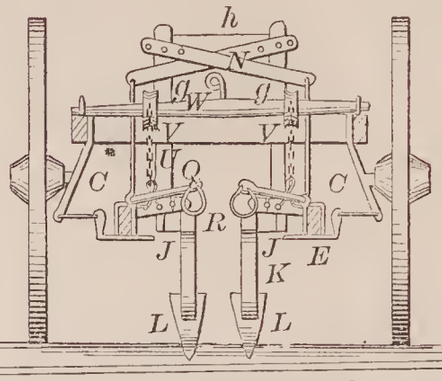


73804—J. Hatton—*Metallic Handle.*

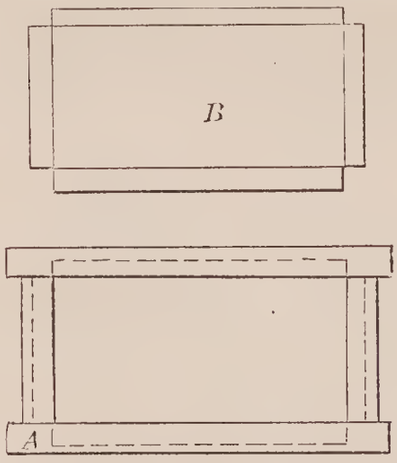


73805—J. T. Herndon—*Cultivator.*

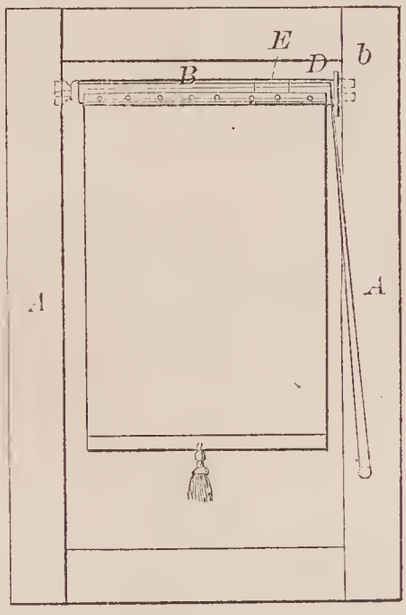




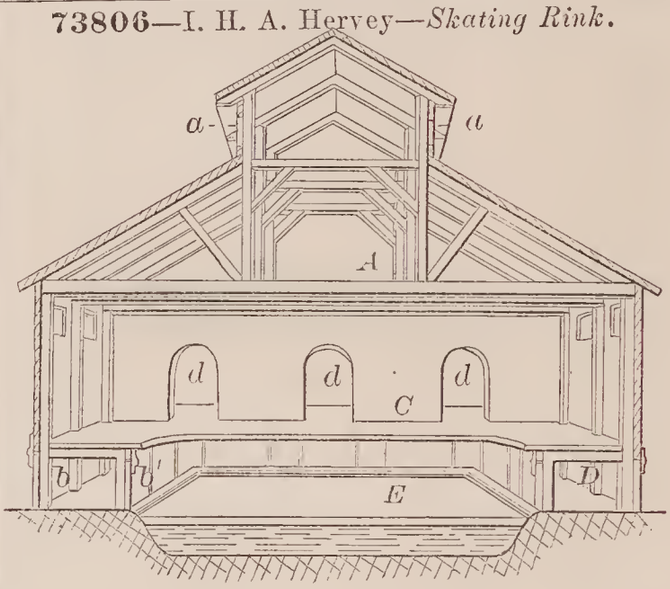
73810—J. L. Inskeep—*Sugar Mould.*



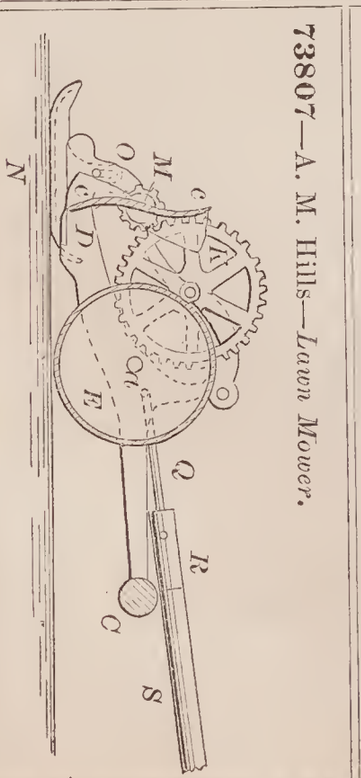
73811—C. R. Jenkins—*Curtain Fixture.*



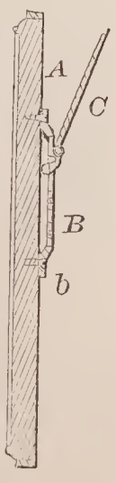
73806—I. H. A. Hervey—*Skating Rink.*



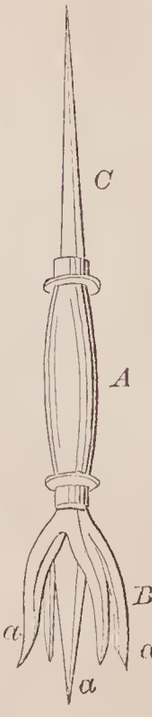
73807—A. M. Hills—*Lawn Mower.*



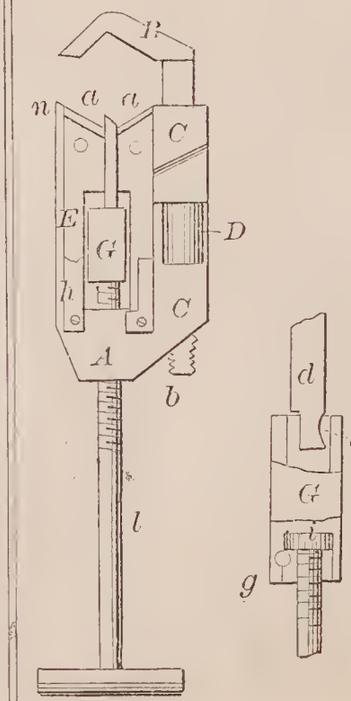
73808—L. L. Hodges—*Picture Frame Supporter.*



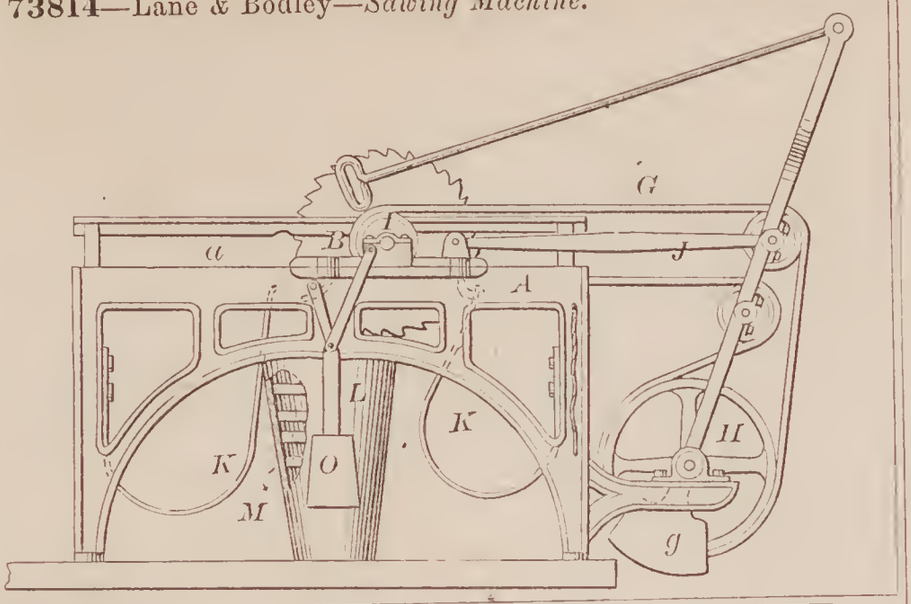
73809—S. G. Hoyt—*Ice Pick.*



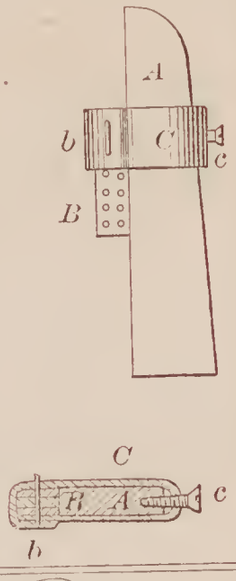
73813—G. B. Kirk—*Pipe and Bolt Cutter.*



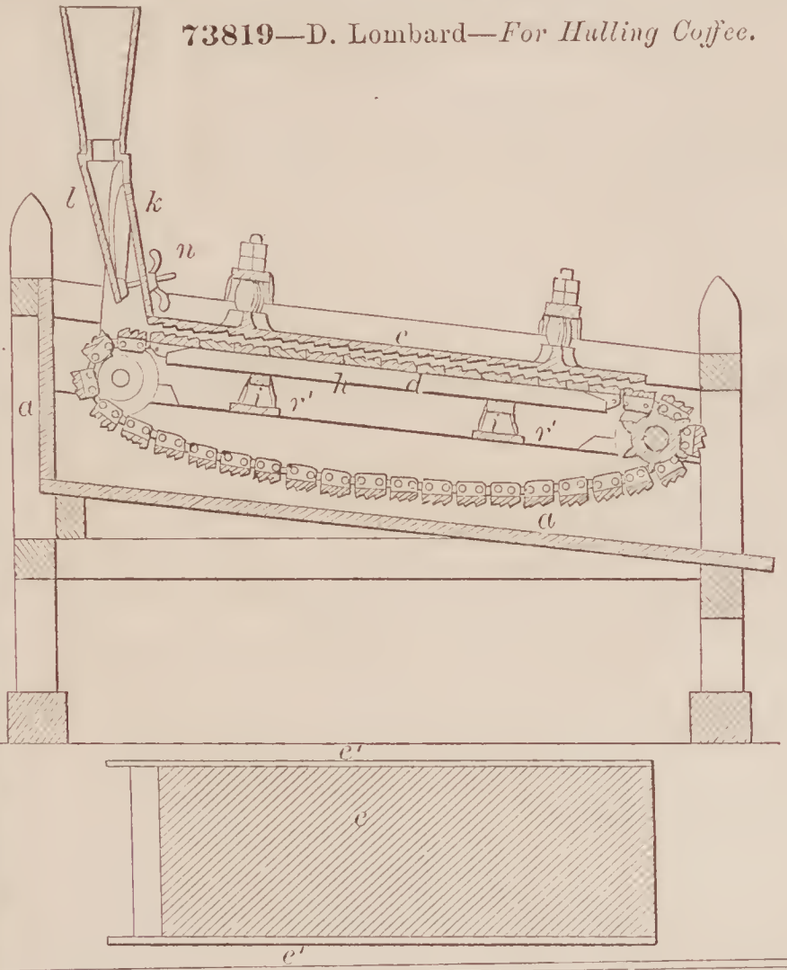
73814—Lane & Bodley—*Sawing Machine.*



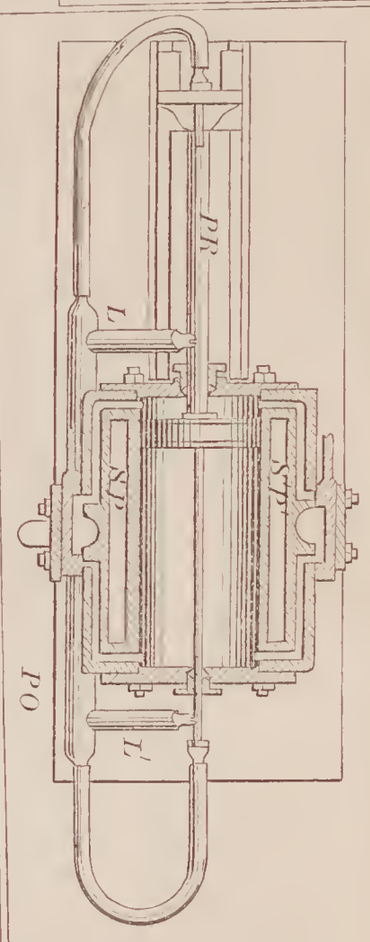
73818—R. Leach—*Picker for Looms.*



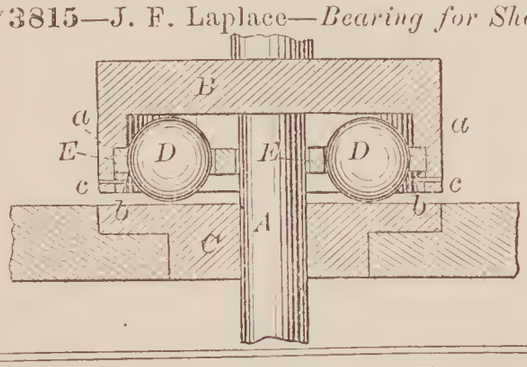
73819—D. Lombard—*For Hulling Coffee.*



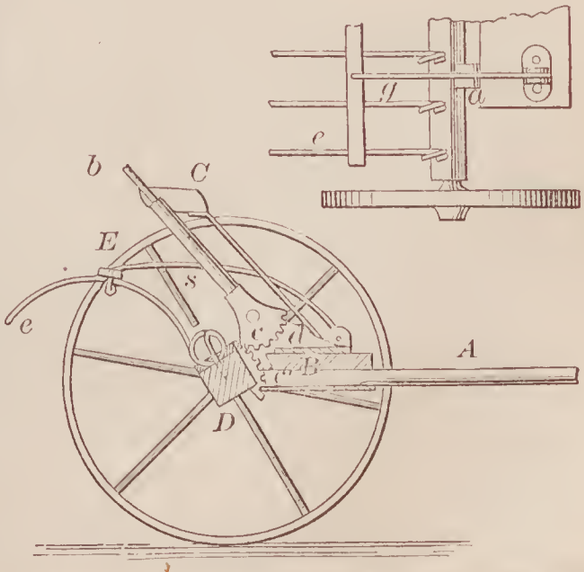
73816—W. H. Laubach—*Gas Engine.*



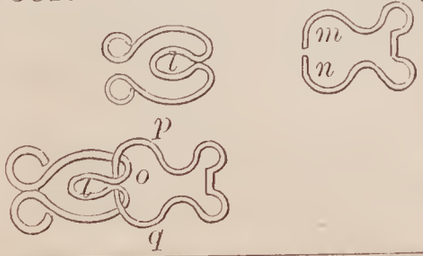
73815—J. F. Laplace—*Bearing for Shafts.*



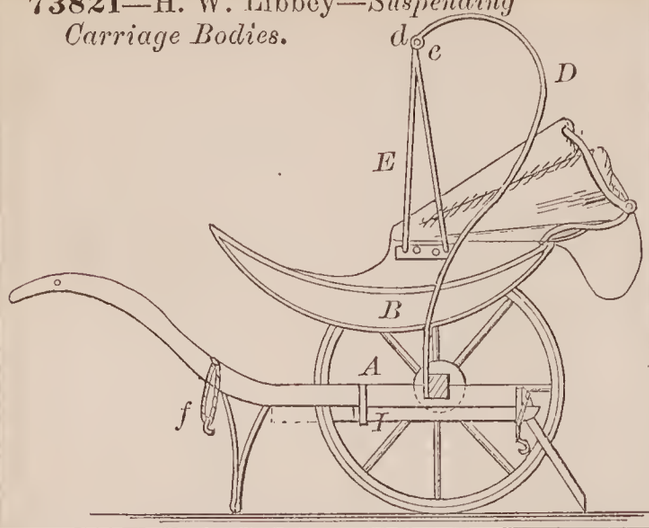
73820—C. O. Luce—*Horse Rake.*



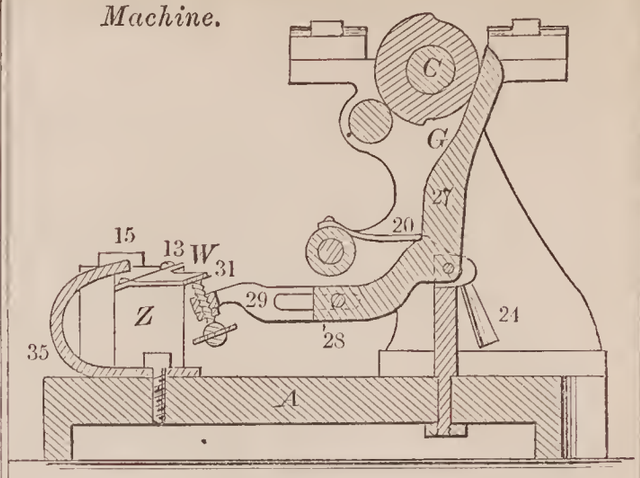
73817—W. Law—*Hooks and Eyes.*

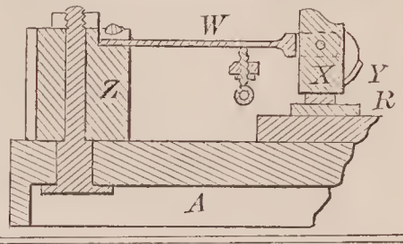


73821—H. W. Libbey—*Suspending Carriage Bodies.*

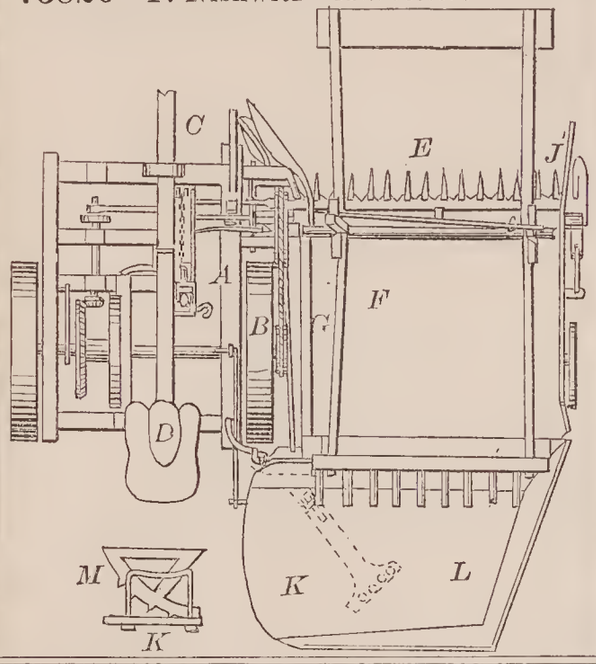


73824—J. B. Mignault—*File Cutting Machine.*

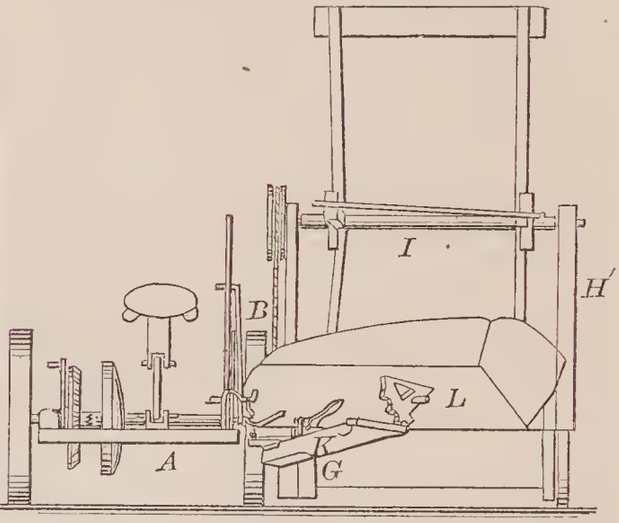




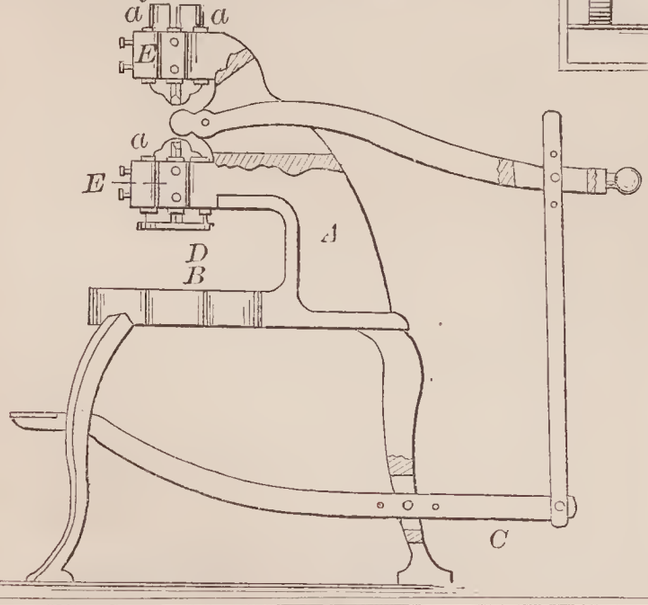
73826—F. Nishwitz—*Harvester.*



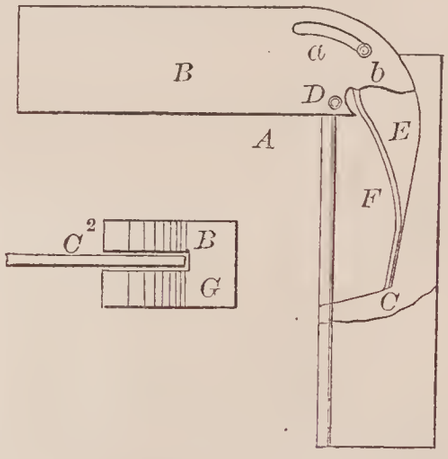
73827—F. Nishwitz—*Harvester.*



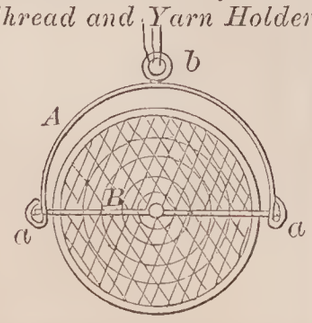
73823—Mays & Bliss—*Die Press.*

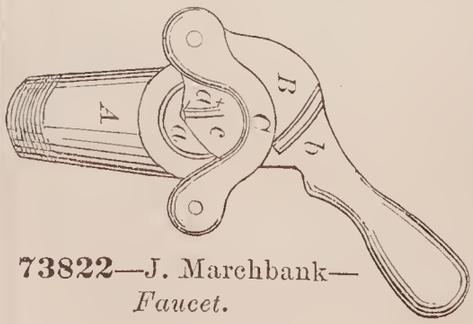


73828—H. L. Ogden—*Try Square.*



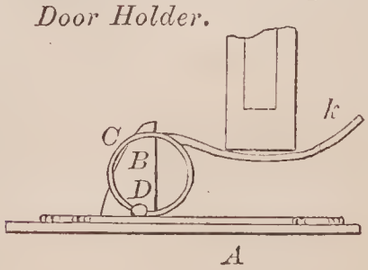
73825—F. W. Myrick—*Thread and Yarn Holder.*



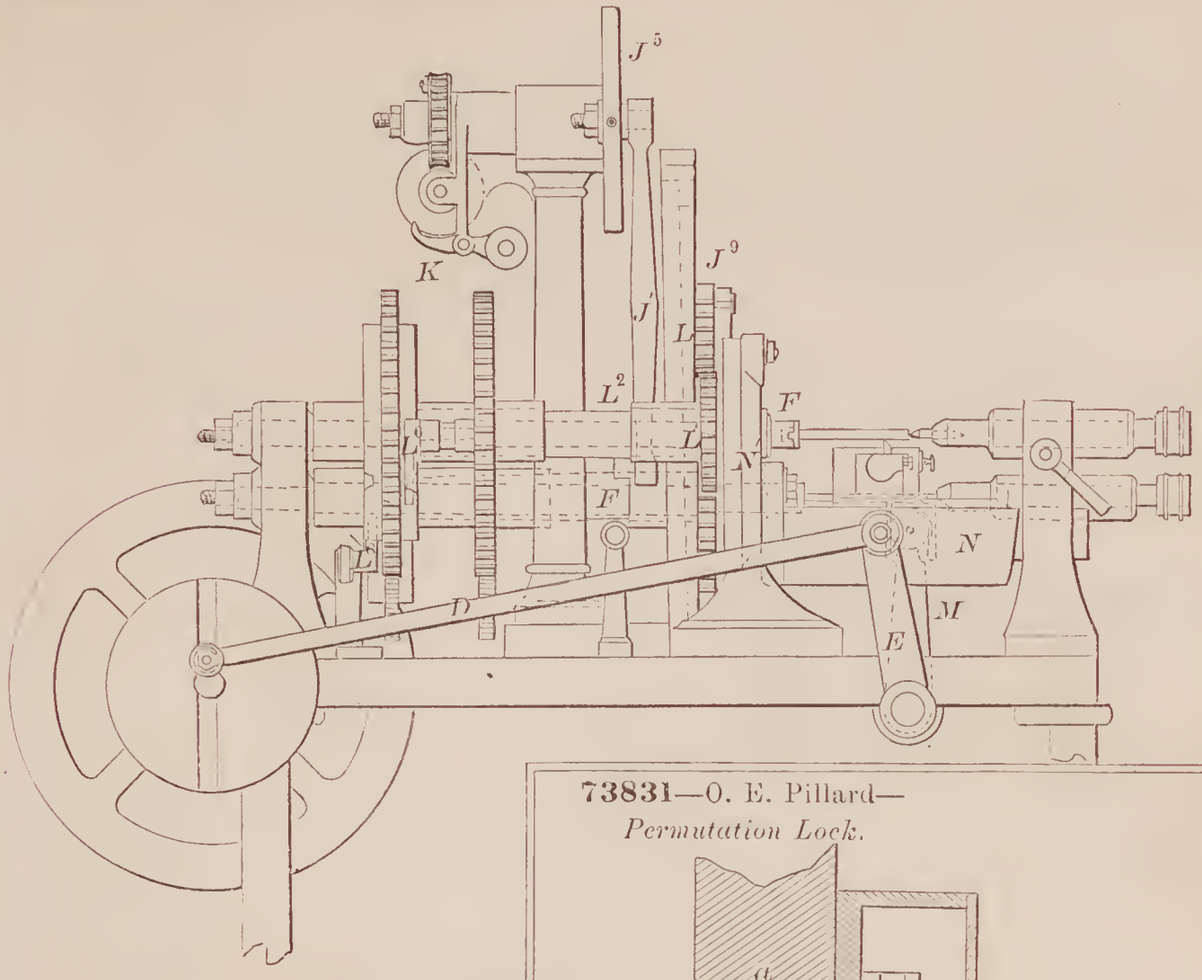


73822—J. Marchbank—*Faucet.*

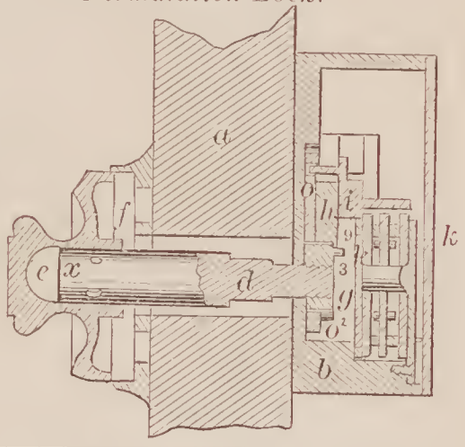
73829—J. B. Okey—*Spring Door Holder.*

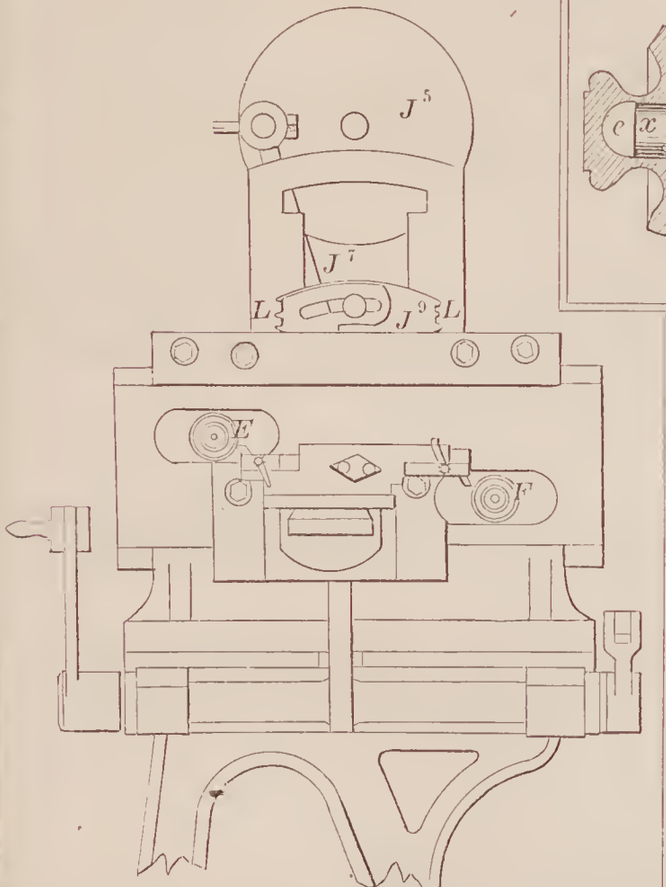


73830—W. Payton—*Turning Lathe.*

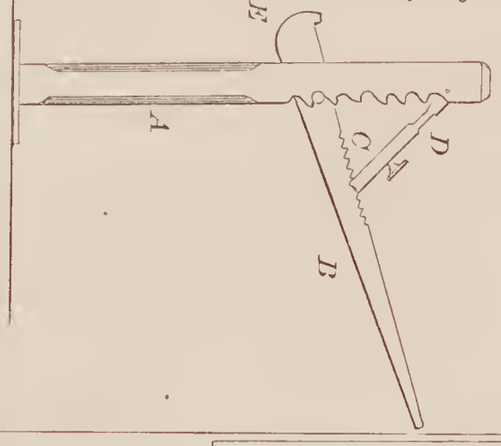


73831—O. E. Pillard—
Permutation Lock.

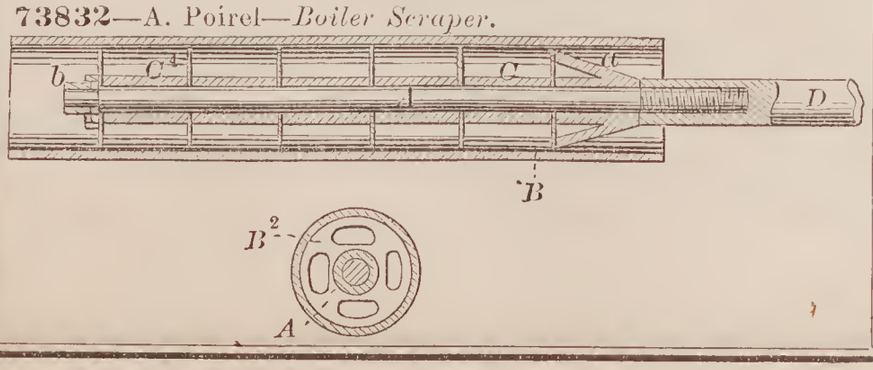




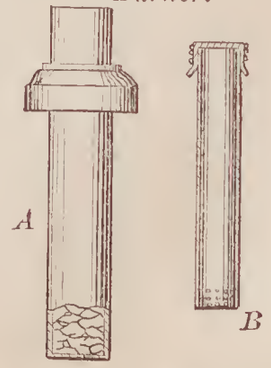
73833—L. B. Prindle—*Lifting Jack.*



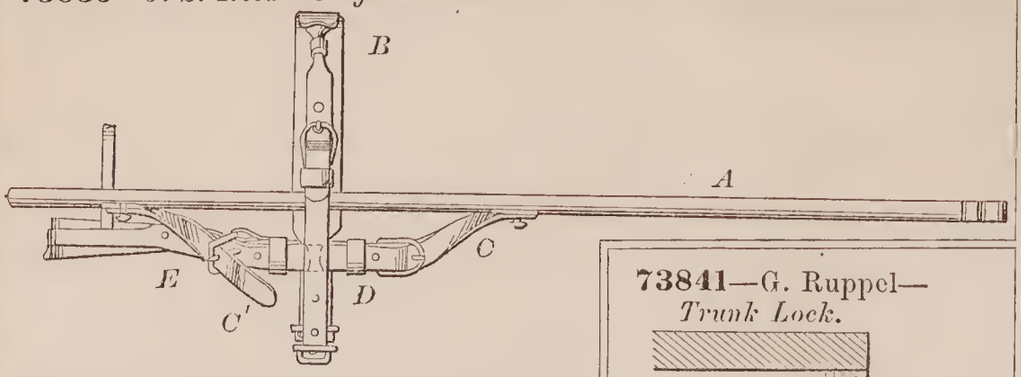
73832—A. Poirel—*Boiler Scraper.*



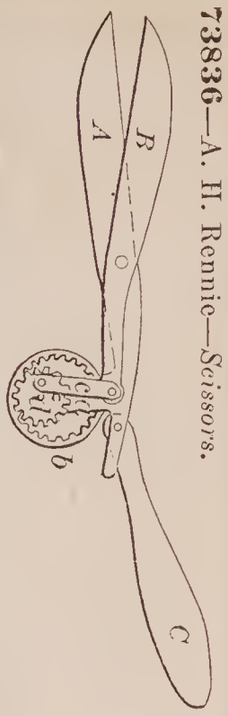
73834—S. C. Pruden—
Burner.



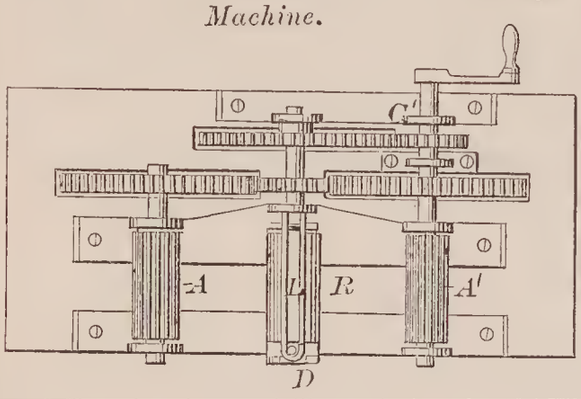
73835—J. S. Reid—*Single Harness.*



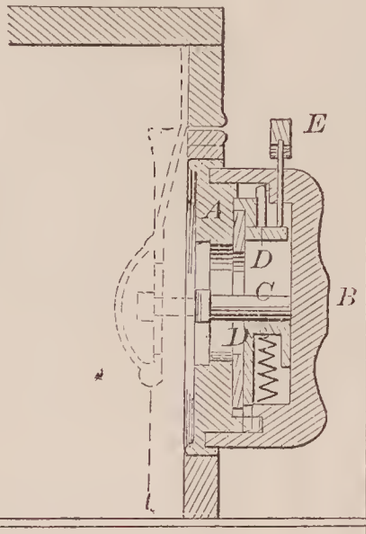
73836—A. H. Rennie—*Scissors.*



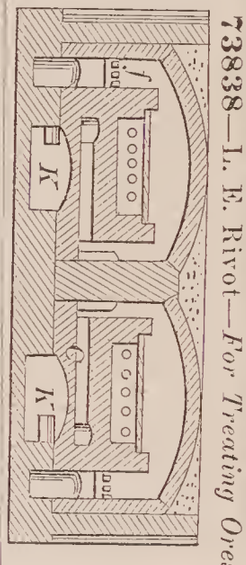
73837—Richardson & Müller—*Bending Machine.*



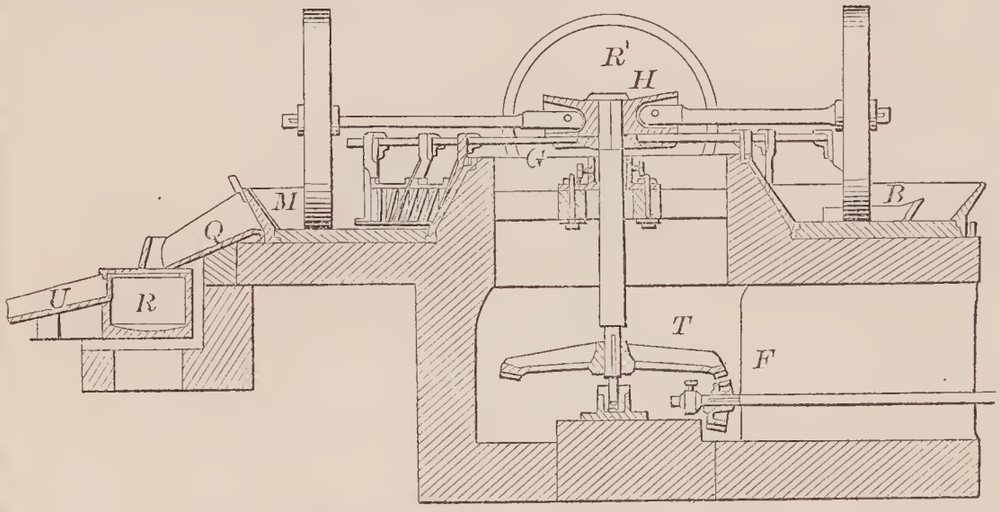
73841—G. Ruppel—*Trunk Lock.*



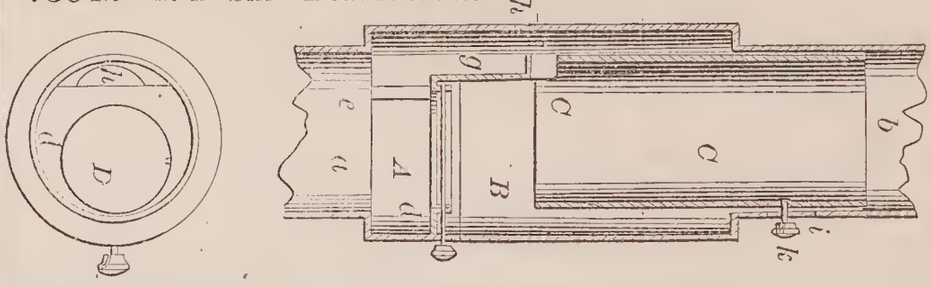
73838—L. E. Rivot—*For Treating Ores.*



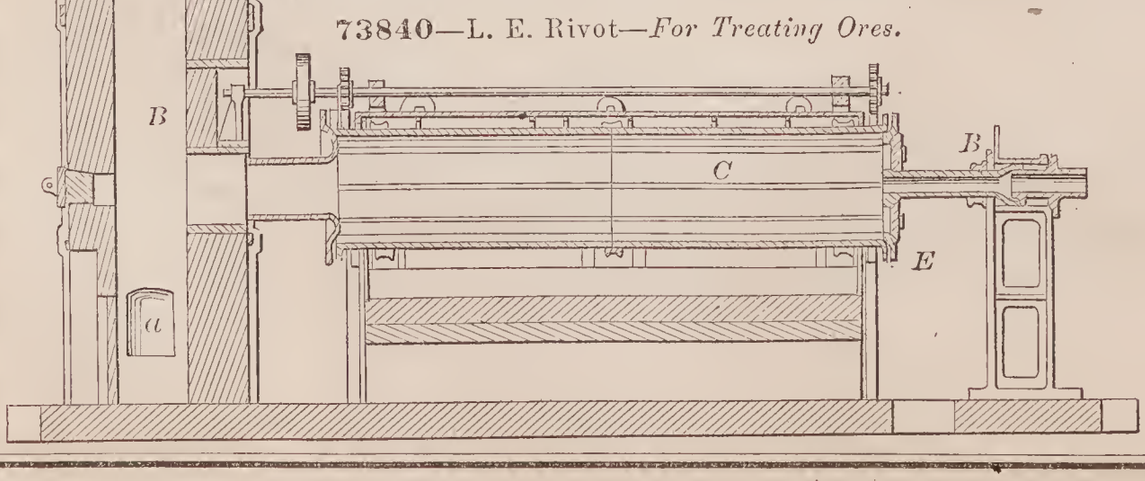
73839—L. E. Rivot—*For Amalgamating Gold and Silver Ores.*



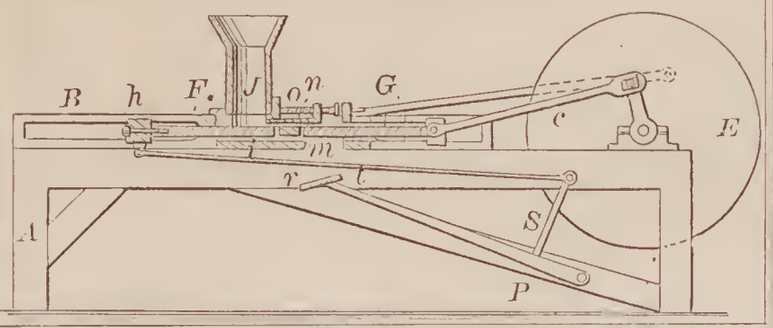
73842—S. B Sill—*Heat Radiator.*



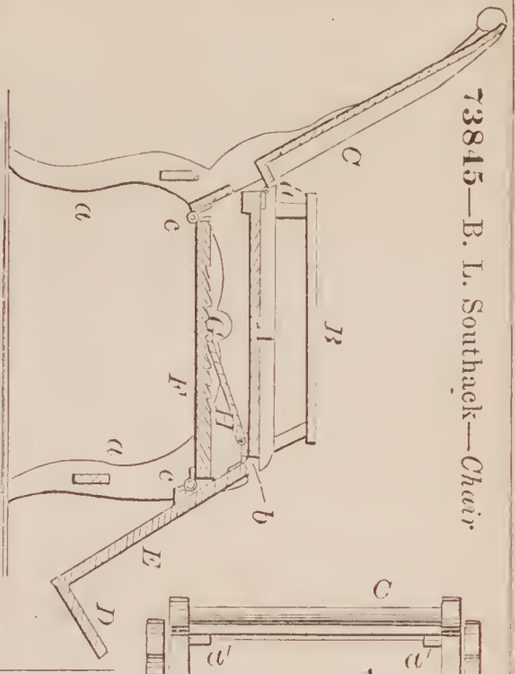
73840—L. E. Rivot—*For Treating Ores.*



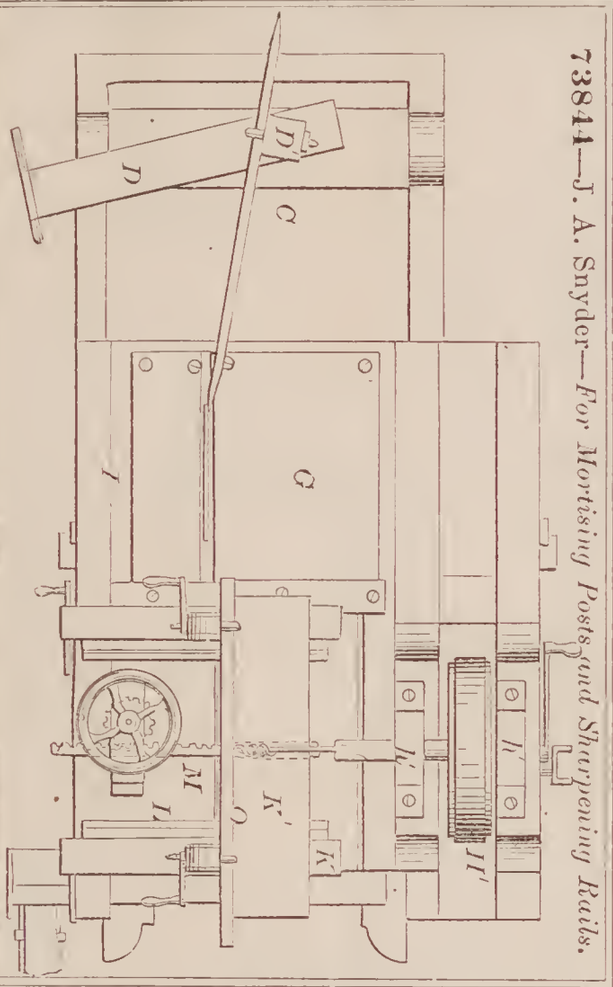
73843—J. Simpson—*Brick Machine.*



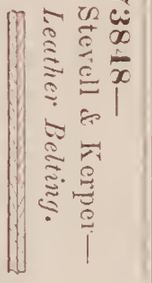
73845—B. L. Southack—*Chair.*



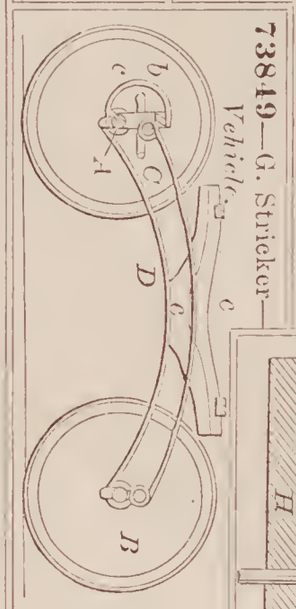
73844—J. A. Snyder—*For Mortising Posts and Sharpening Rails.*

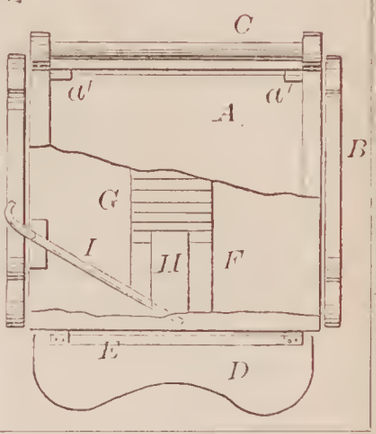


73848—Stevell & Kerper—*Leather Belting.*

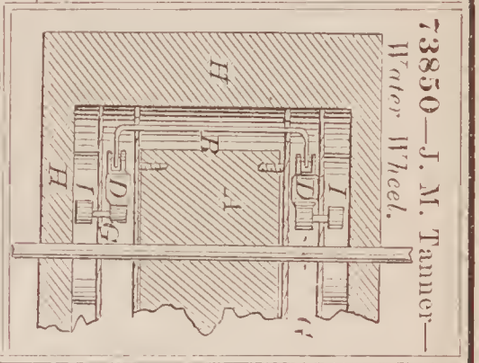


73849—G. Stricker—*Vehicle.*

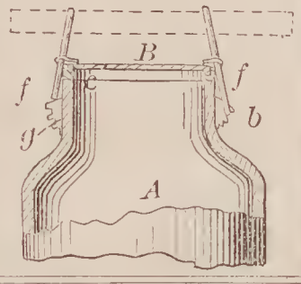




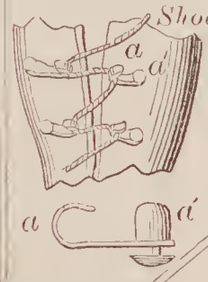
73850—J. M. Tanner—*Water Wheel.*



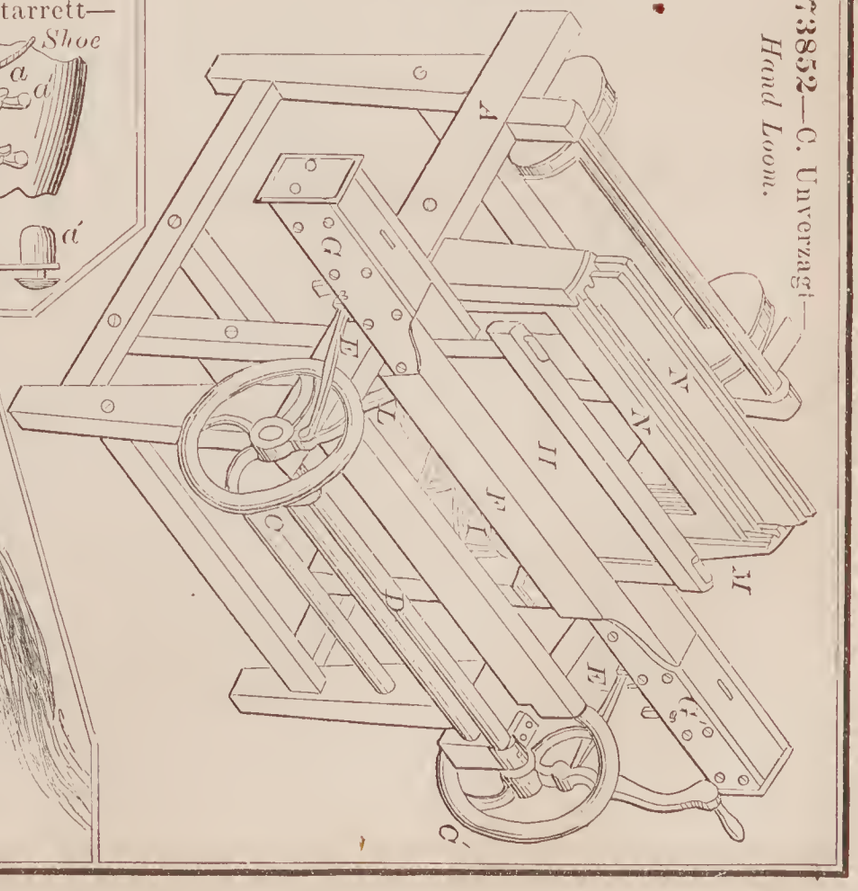
73846—C. F. Spencer—*Fruit Jar*



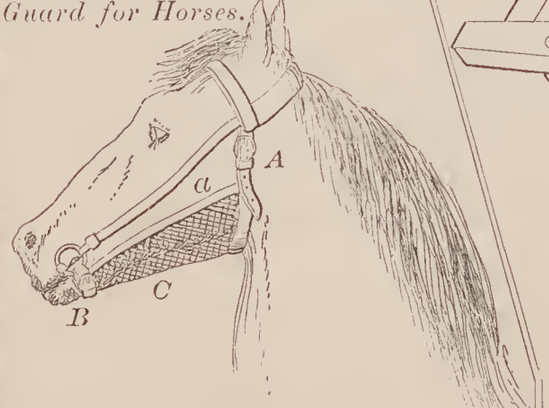
73847—L. S. Starrett—*Shoe*



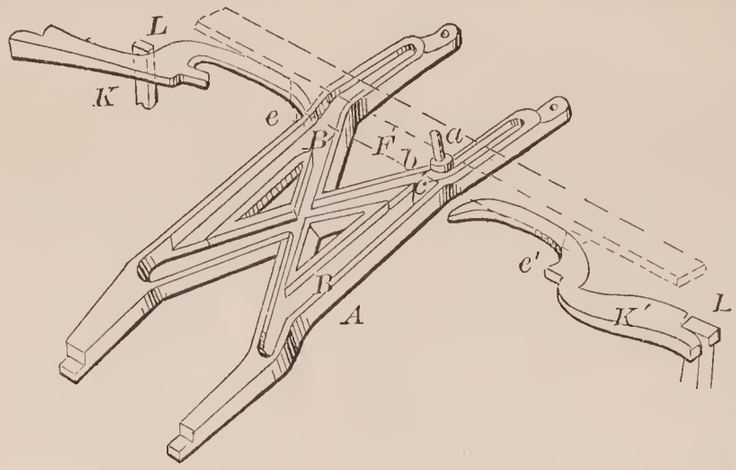
73852—C. Unverzagt—*Hand Loom.*

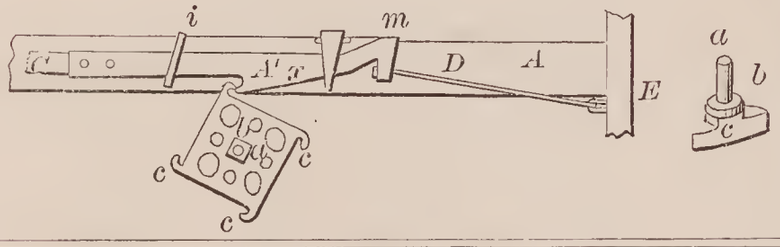


73851—B. Treadwell—*Insect Guard for Horses.*

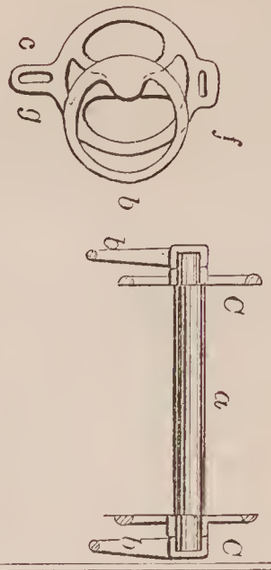


73852—*Continued.*

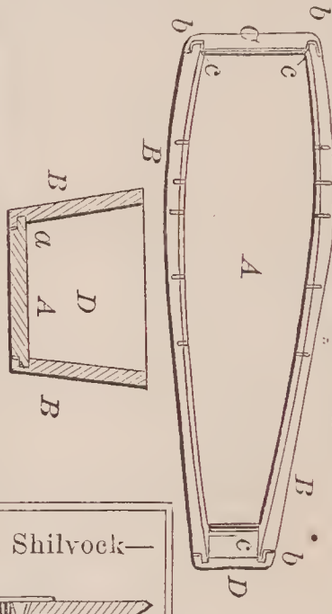




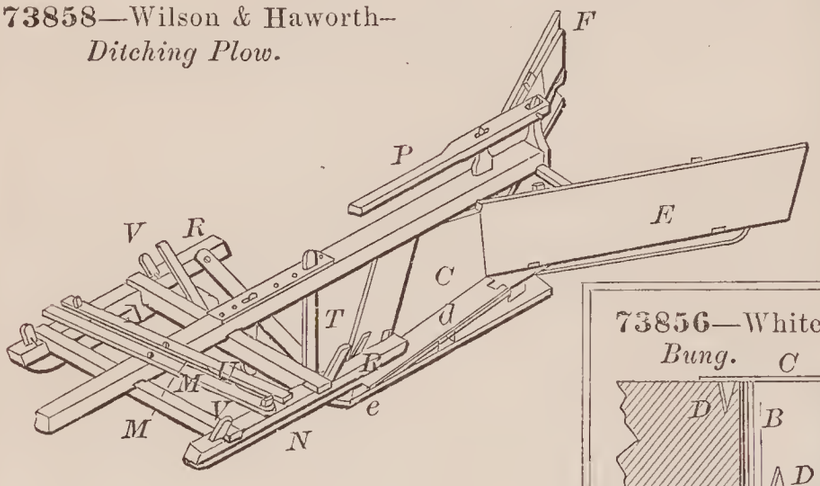
73853—G. Webb—*Bridle Bit.*



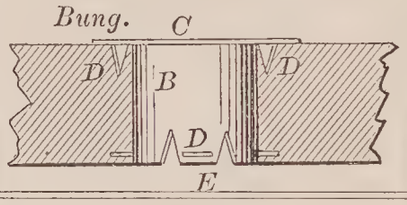
73857—J. C. Williams—*Coffin.*



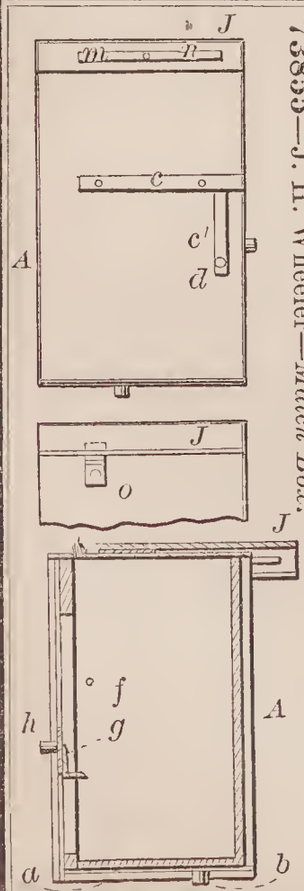
73858—Wilson & Haworth—*Ditching Plow.*



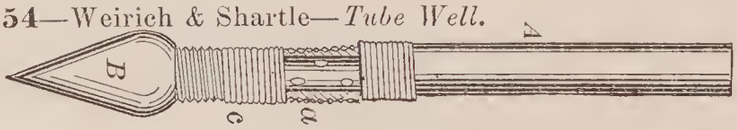
73856—White & Shilvock—*Bung.*



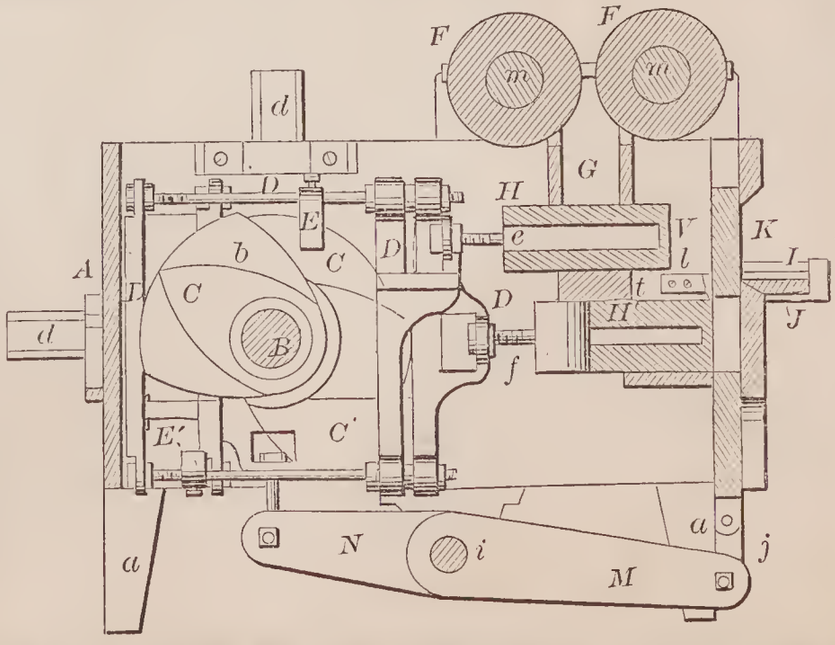
73855—J. H. Wheeler—*Match Box.*



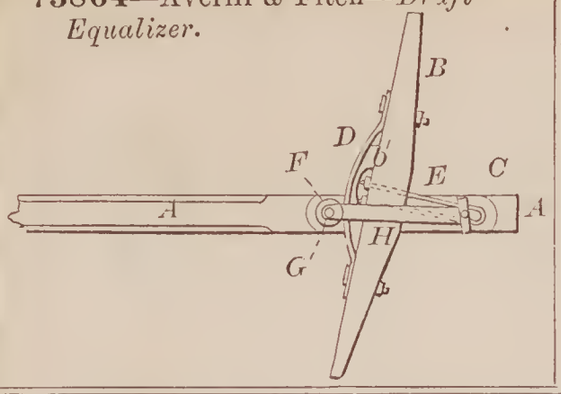
73854—Weirich & Shartle—*Tube Well.*



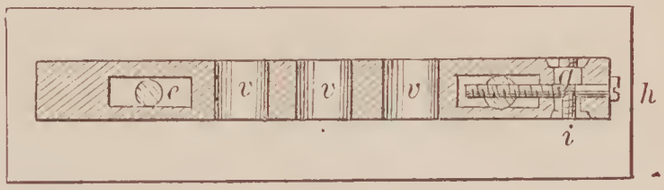
73863—E. F. Andrews—*Brick Machine.*



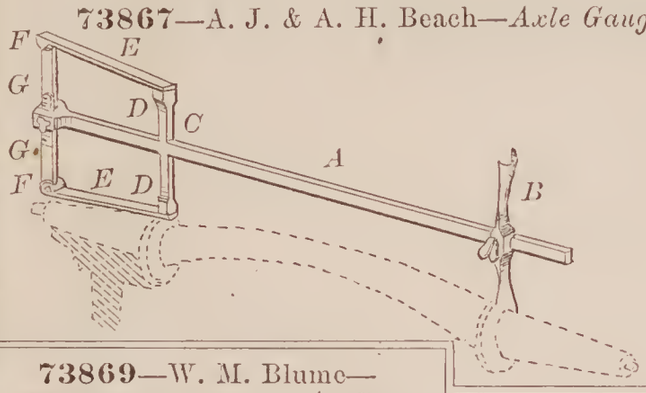
73864—Averill & Fitch—*Draft Equalizer.*



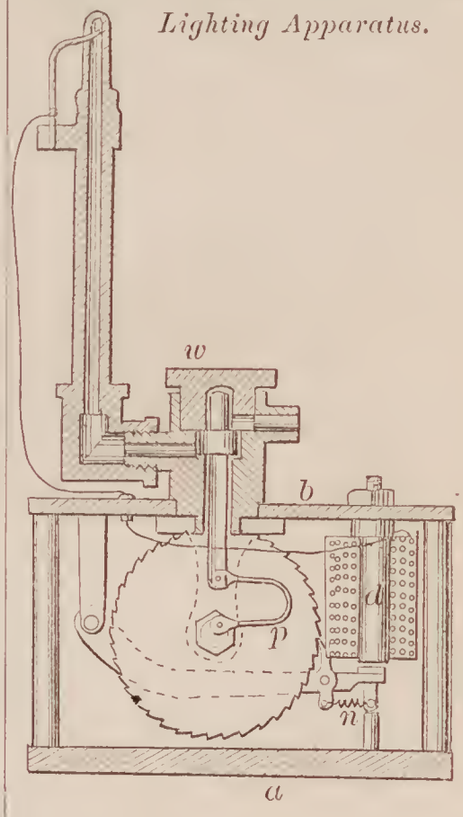
73866—J. Bachelder—*Carding Engine Guide.*



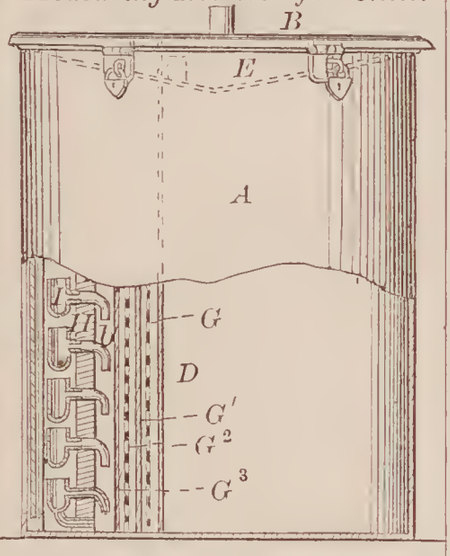
73867—A. J. & A. H. Beach—*Axle Gauge.*



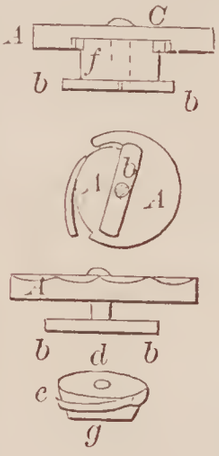
73868—F. Bean—*Electric Gas Lighting Apparatus.*



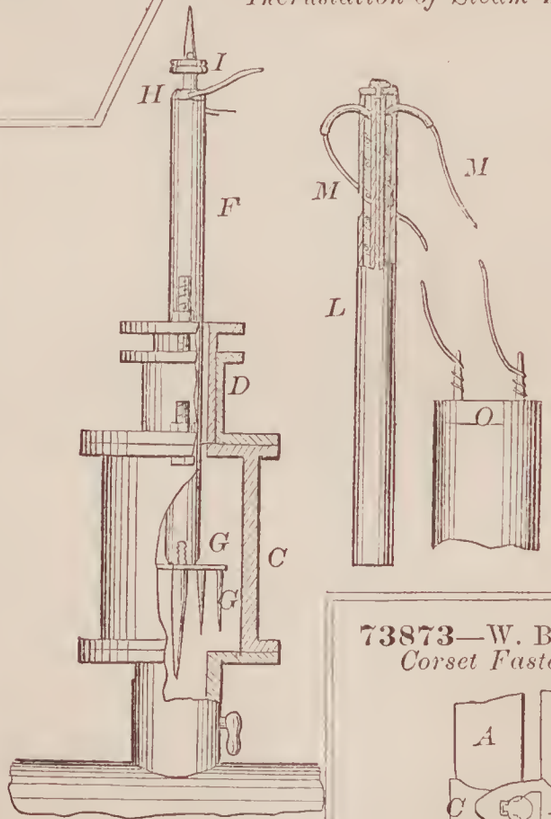
73869—W. M. Blume—*Measuring Receiver for Stills.*



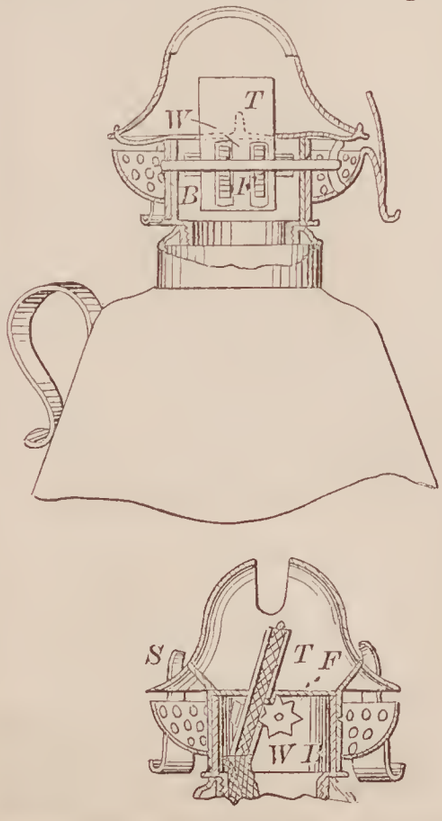
73871—F. M. Bugbee—*Button.*



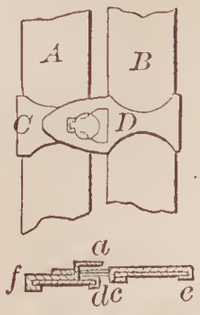
73872—S. G. Cabell—*Preventing Incrustation of Steam Boilers.*



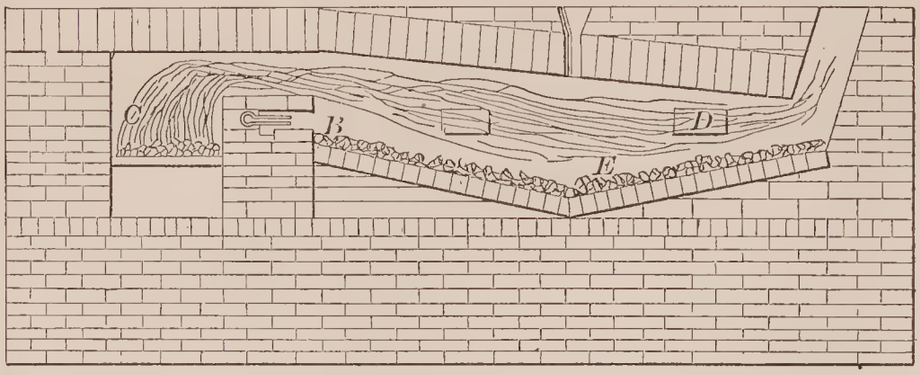
73870—A. W. Browne—*Lamp.*



73873—W. B. Cargill—*Corset Fastening.*



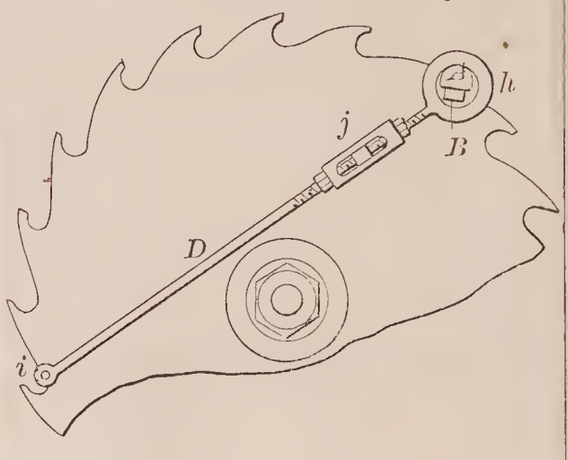
73874—C. B. Carpenter—*Reducing Lead Ore.*

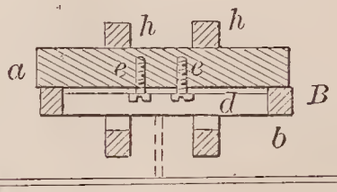


73877—J. F. Cranston—*Priming Metallic Cartridges.*

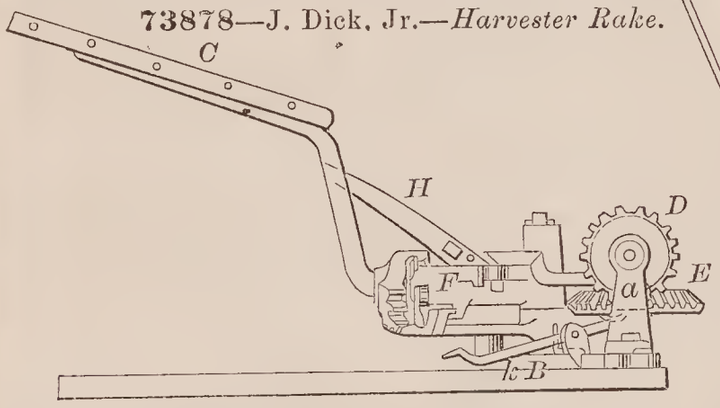
73875—W. Clark—*Check and Harness Rein.*

73879—H. Disston—*For Setting Saws.*

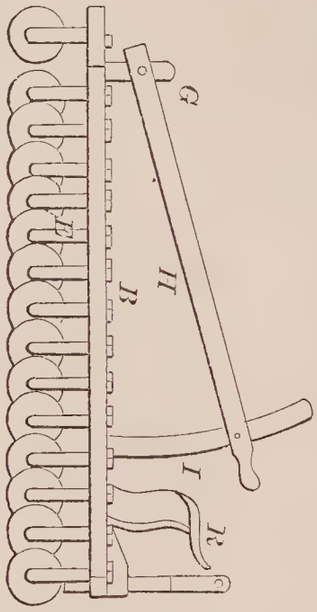




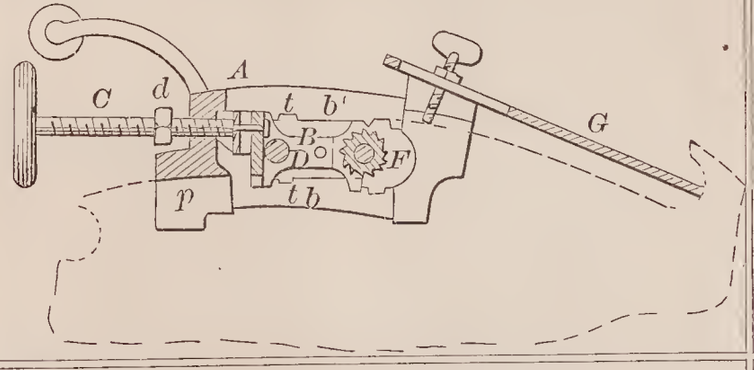
73878—J. Dick, Jr.—*Harvester Rake.*



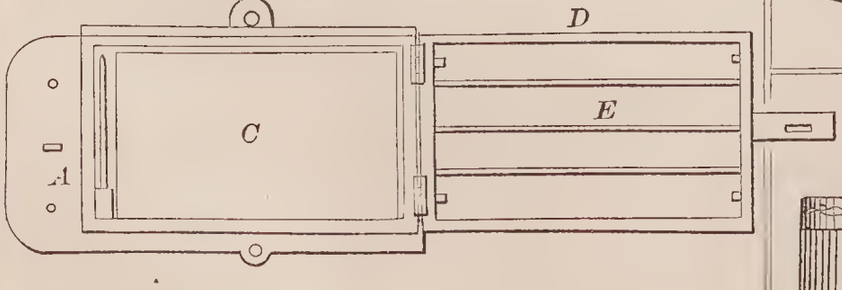
73876—E. Crane—*For Scarifying the Soil.*



73880—T S. Disston—*Saw Gumming Machine.*

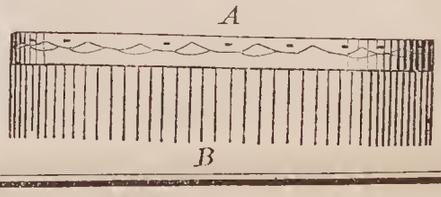


73881—S. W. Downey—*Address Case for Railroad Cars.*

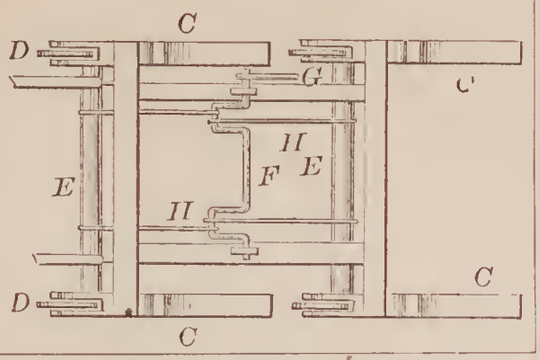


73883—E. Faber—*Lead Pencil.*

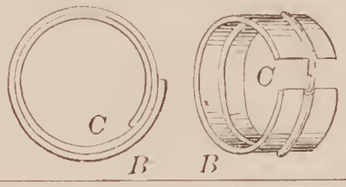
73884—C. Foster—*Comb.*



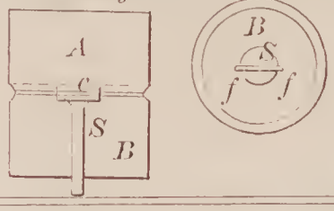
73885—D. C. Frazeur—*Sleigh and Sled.*



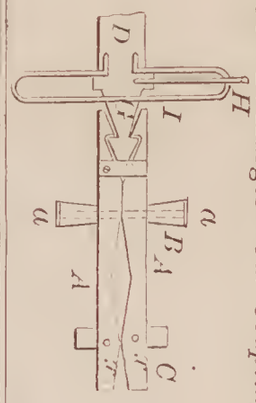
73887—N. W. Green—*Connecting Stove Pipes.*



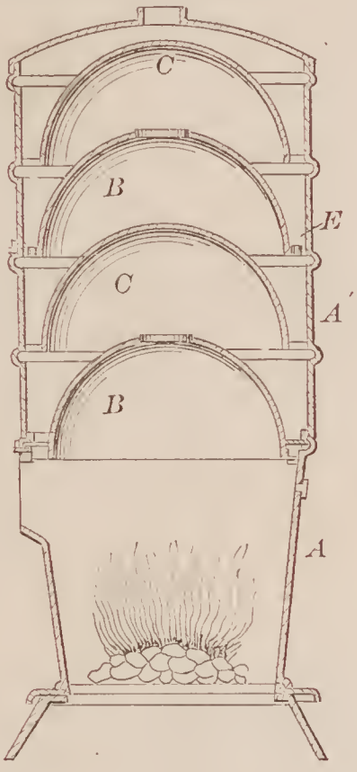
73888—H. Hammond—*Die for Forming Slots in Screws.*



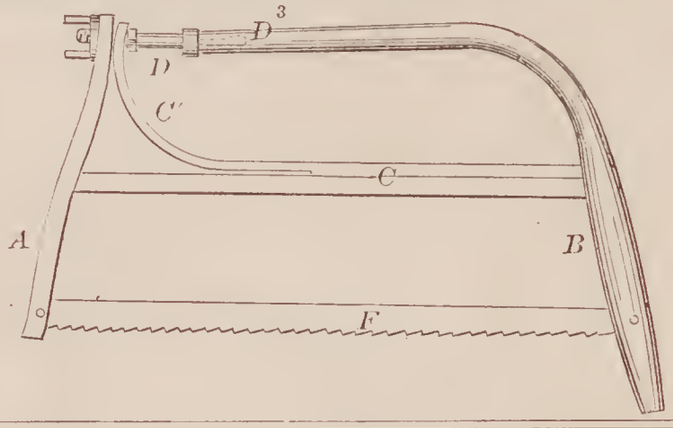
73889—D. Harger—*Car Coupling.*



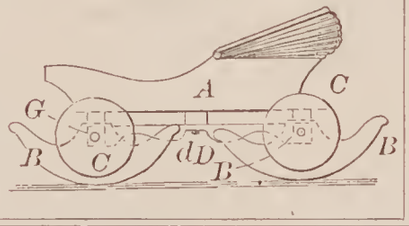
73886—J. C. Gaston—*Drum Attachment for Stoves.*



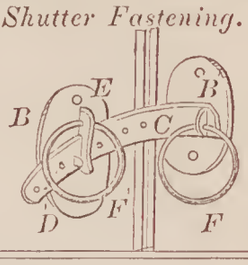
73890—J. Havens—*Wood Saw Frame.*



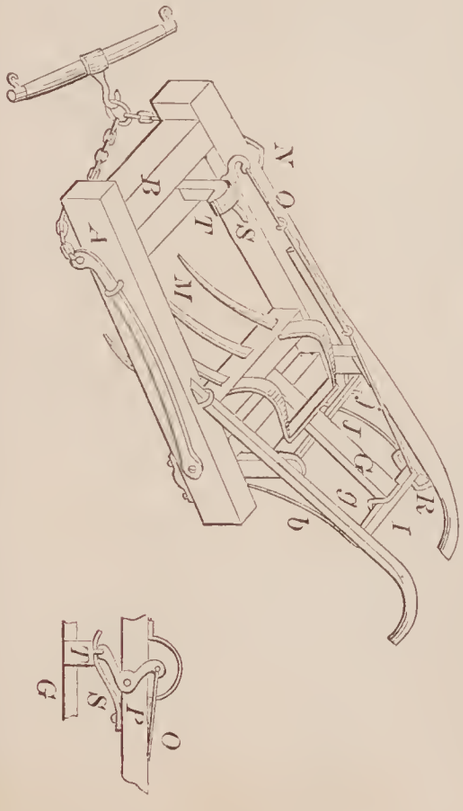
73892—L. & A. R. Hill—*Cradle.*



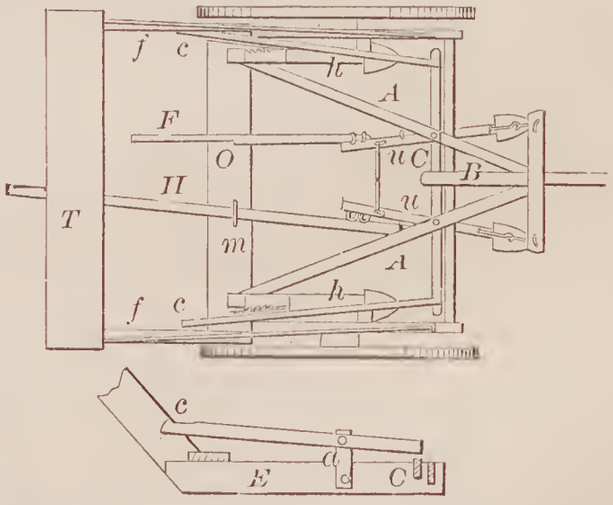
73893—G. G. Hickman—*Shutter Fastening.*



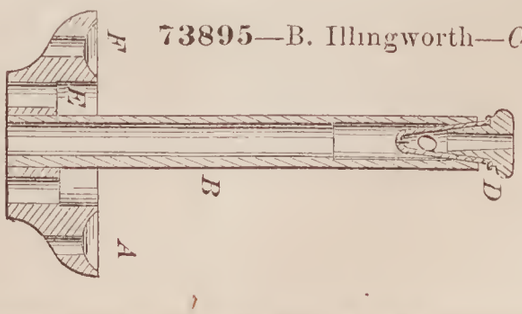
73894—D. Hummel—*Manure Drag.*



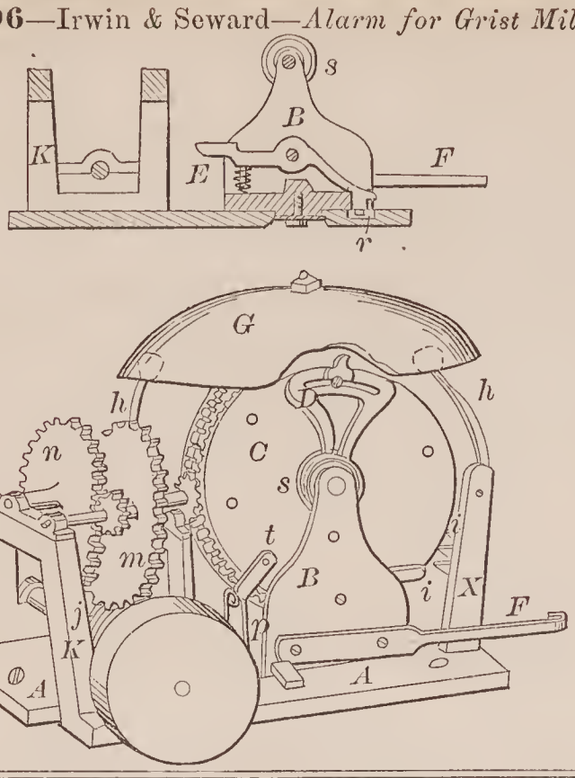
73891—C. Hefft—*Cultivator.*



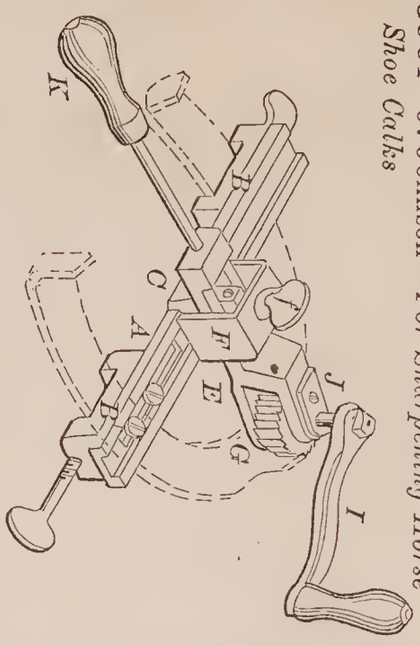
73895—B. Illingworth—*Churn.*



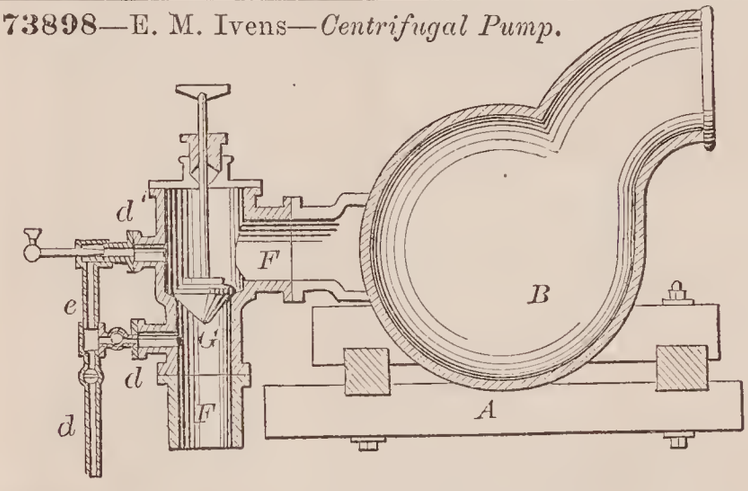
73896—Irwin & Seward—*Alarm for Grist Mills.*



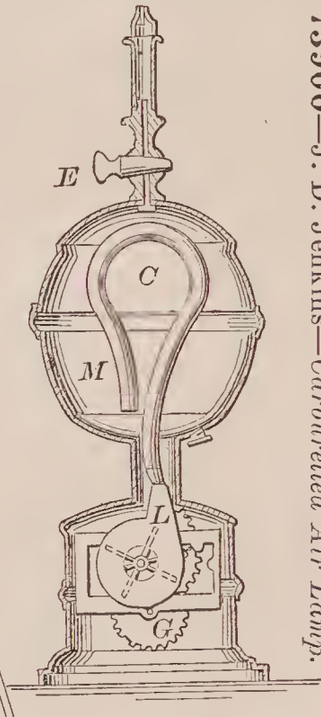
73901—J. Johnson—*For Sharpening Horse Shoe Calks*



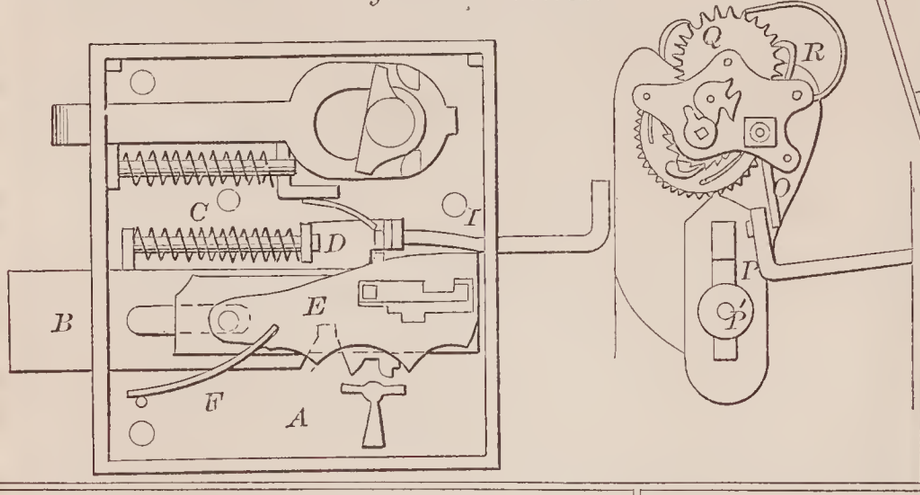
73898—E. M. Ivens—*Centrifugal Pump.*



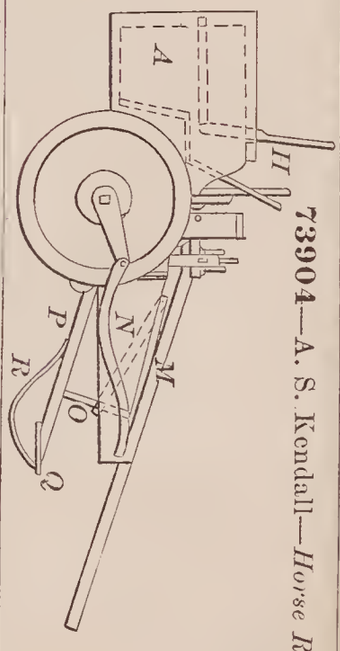
73900—J. D. Jenkins—*Carbureted Air Lamp.*



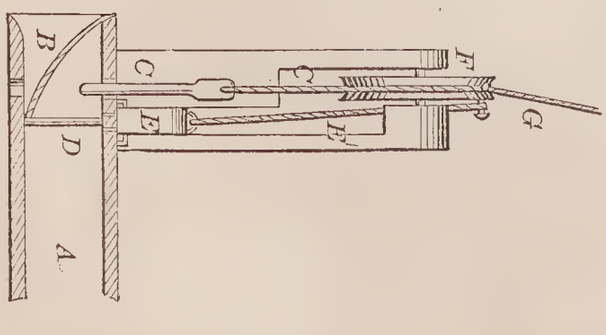
73897—A. Isensee—*Burglar Alarm Lock.*



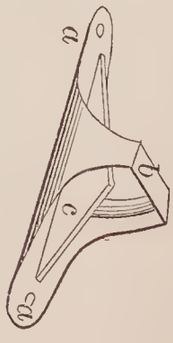
73904—A. S. Kendall—*Horse Rake.*



73902—J. B. Johnson—*Car Coupling.*

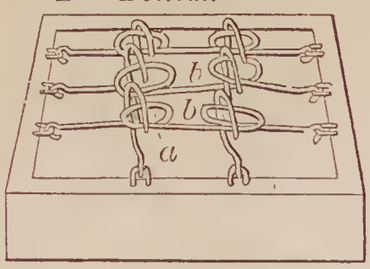


73903—P. Jones—*Clip and Ferrule for Joints and Felloes.*



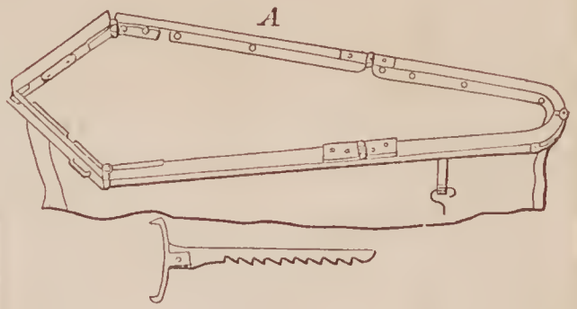
73905—A. H. Knapp—*Bed Bottom.*

B

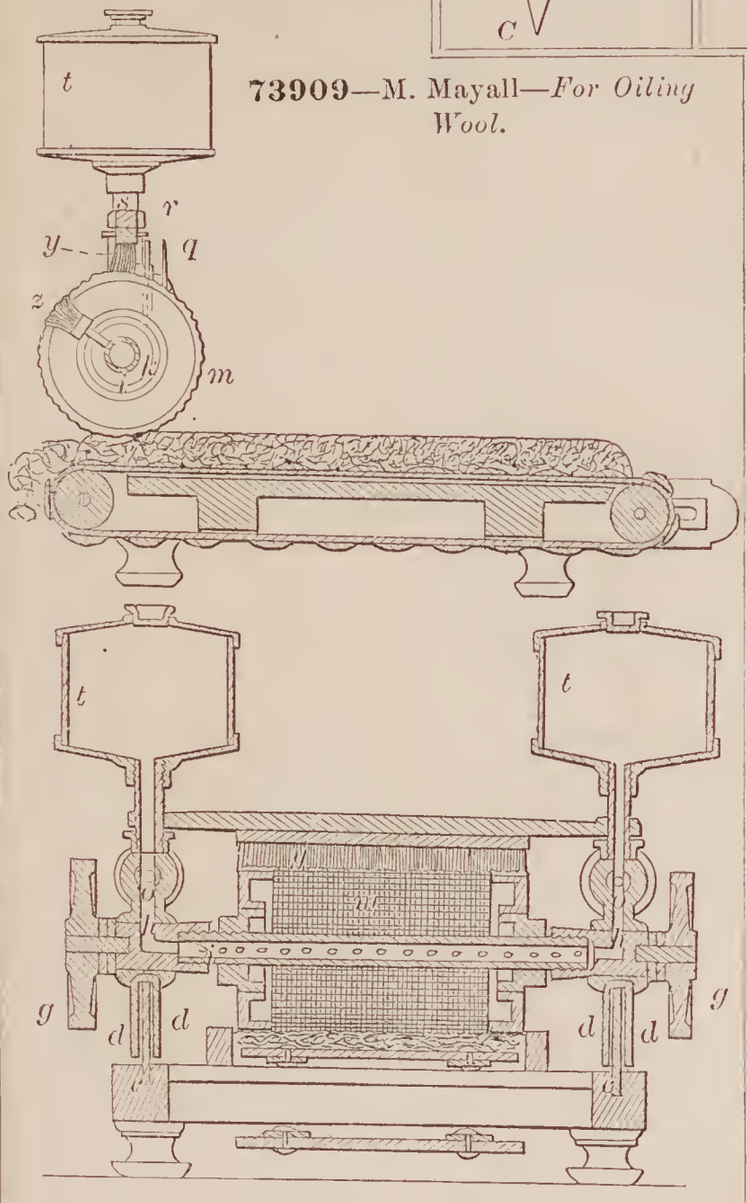


73908—W. W. Martin—*Spike.*

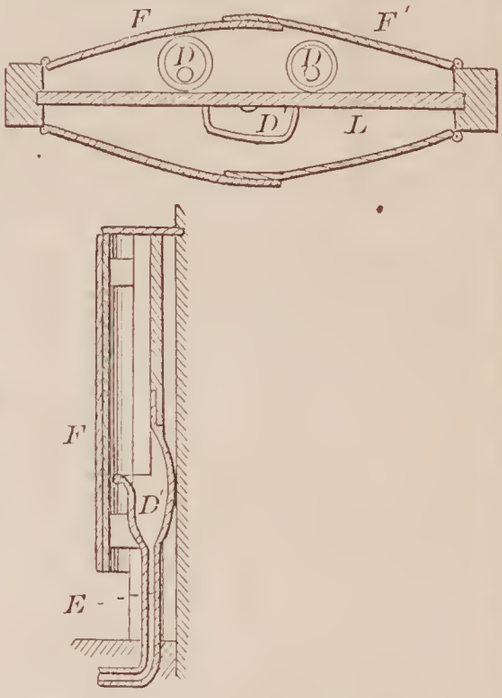
73906—E. J. Knowlton—*Bath Tub.*



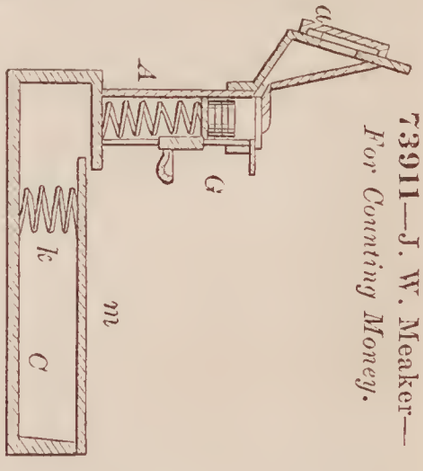
73909—M. Mayall—*For Oiling Wool.*



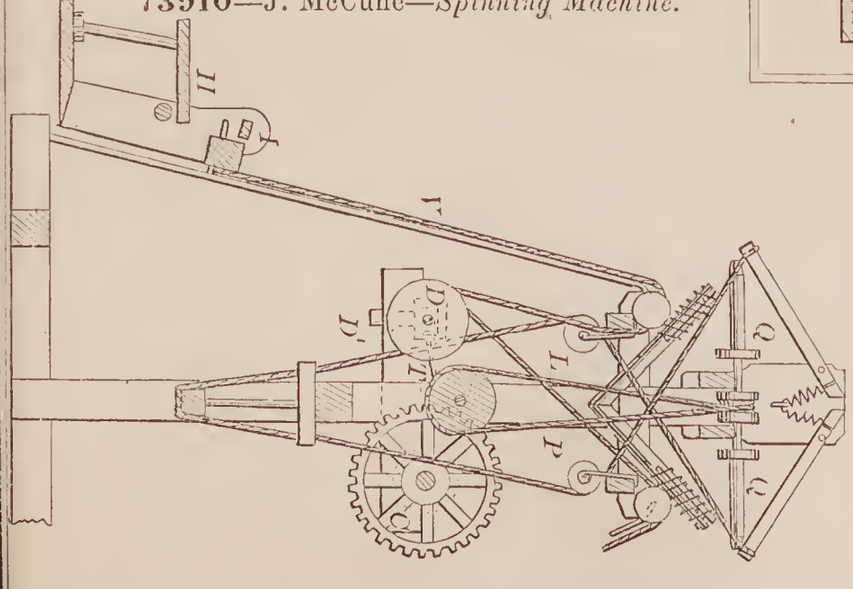
73907—S. Males—*Urinal.*



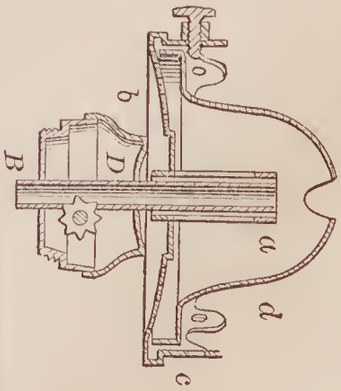
73911—J. W. Meaker—*For Counting Money.*



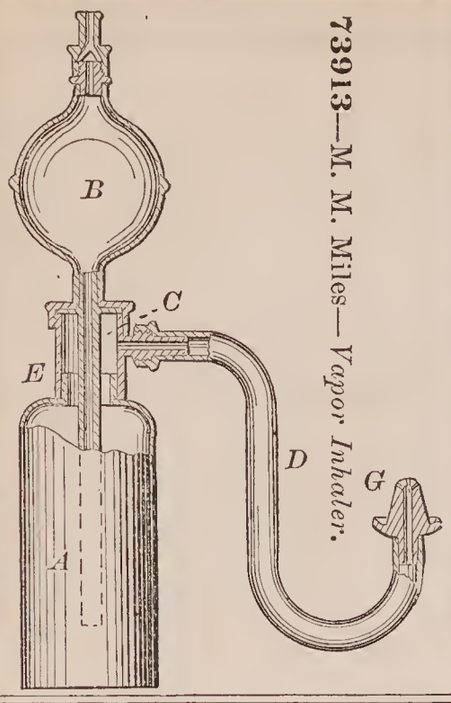
73910—J. McCune—*Spinning Machine.*



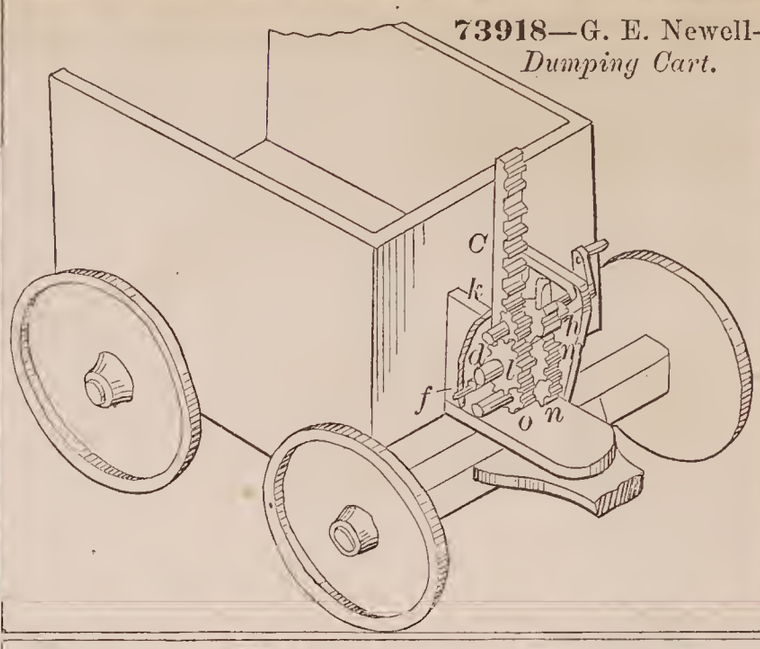
73912—Merrill & Carleton—*Lamp.*



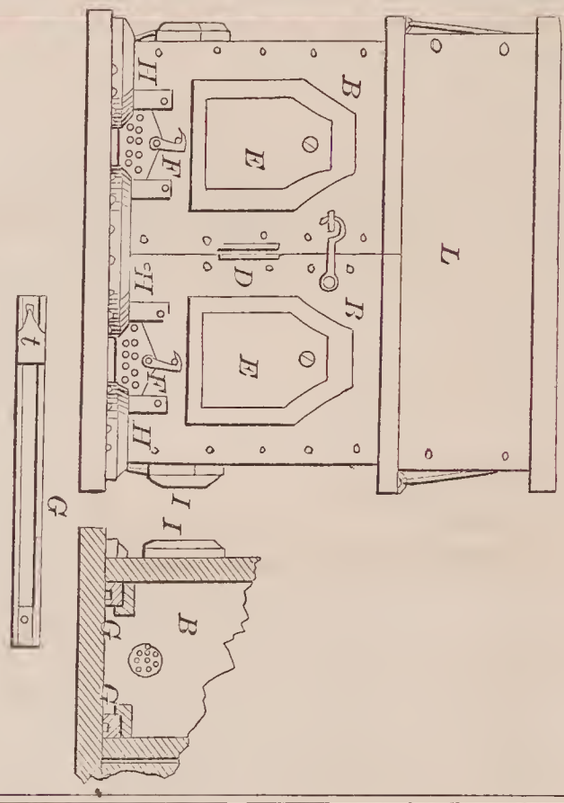
73913—M. M. Miles—*Vapor Inhaler.*



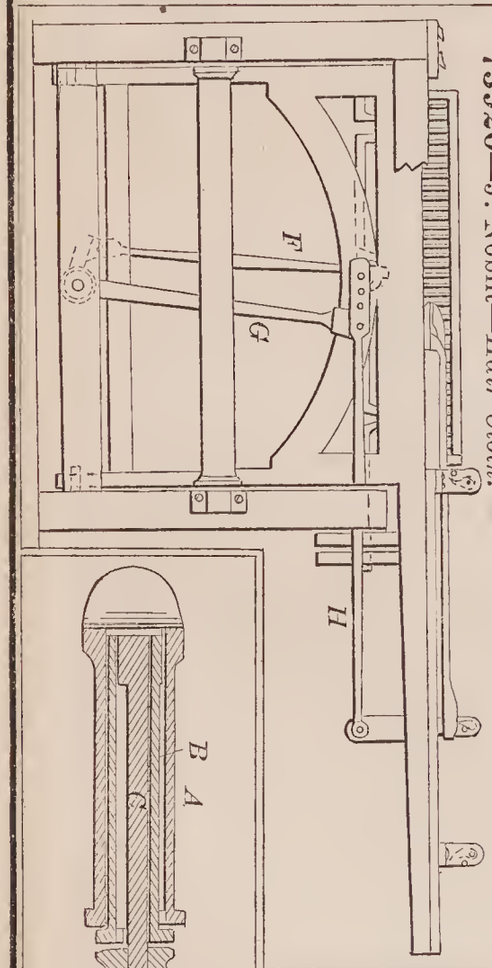
73918—G. E. Newell—*Dumping Cart.*



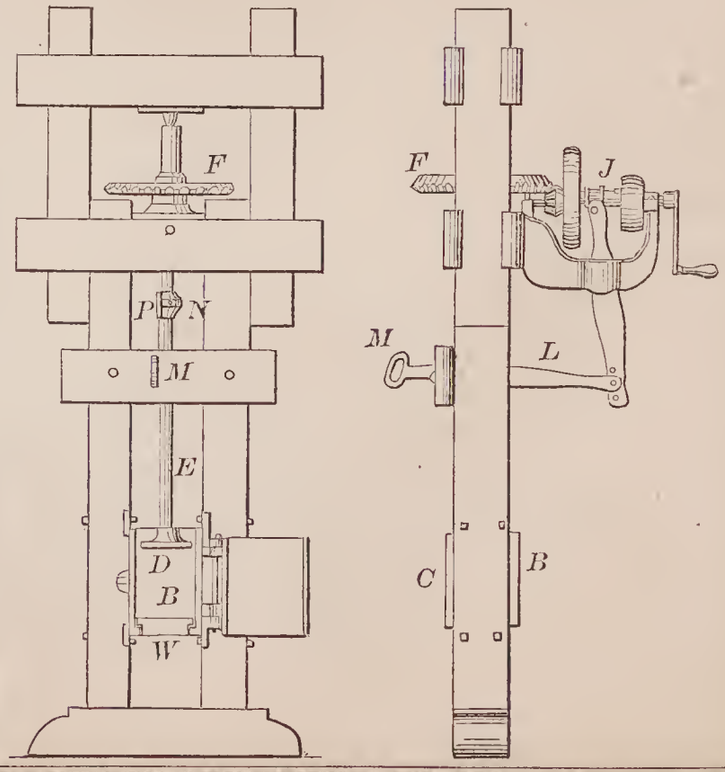
73915—J. Neal—*Beehive.*



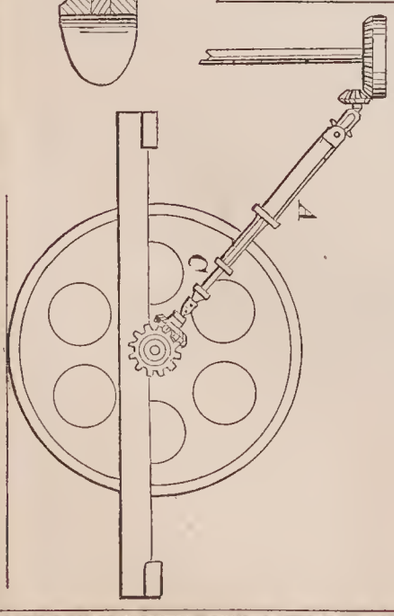
73920—J. Noblit—*Hair Cloth.*



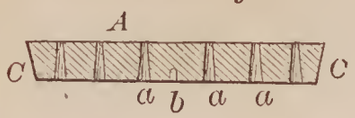
73921—L. P. Norton—*For Cleaning Clay.*



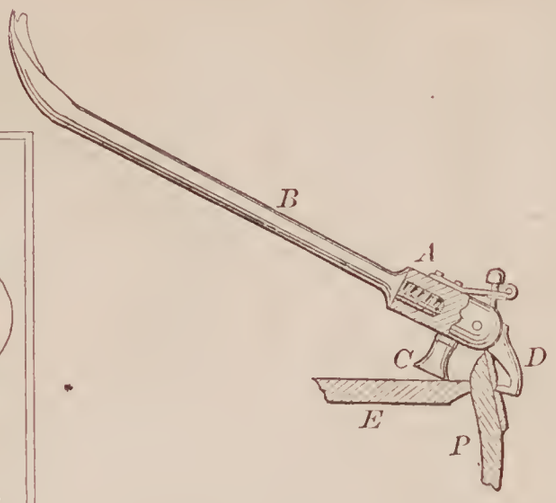
73914—C. Moul—*Harvester.*



73922—W. C. Philbrick—*For Kindling Fires.*

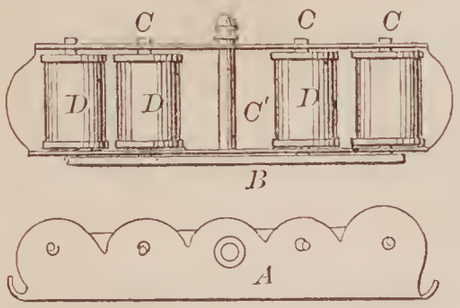


73923—T. J. Phillips—*For Opening Barrels.*

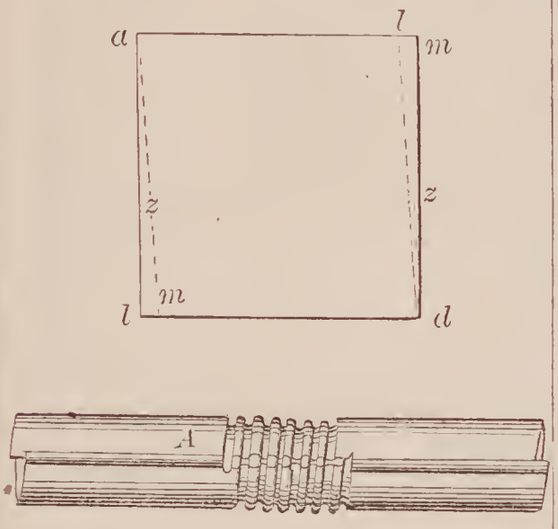


73927—D. F. Randall—*Metallic Band for Trimming Car Seats.*

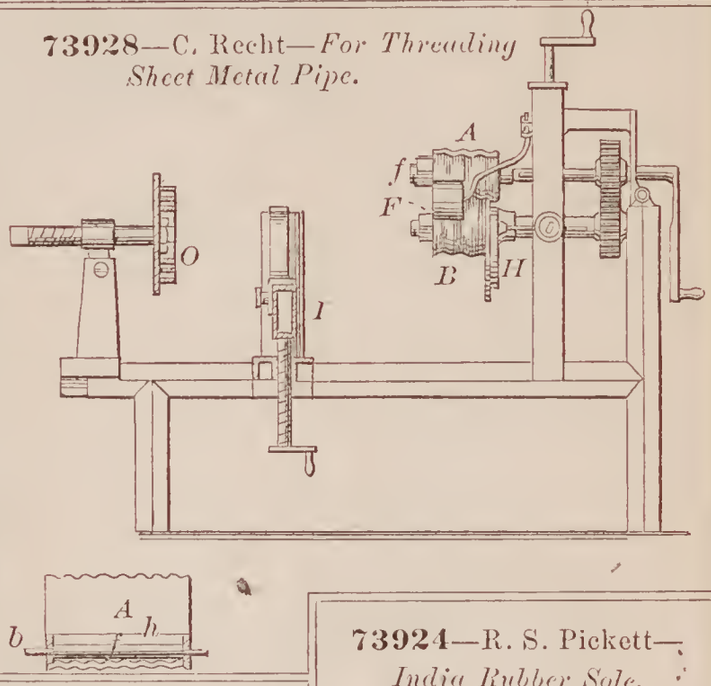
73926—G. A. Pridham—*Spool Stand.*



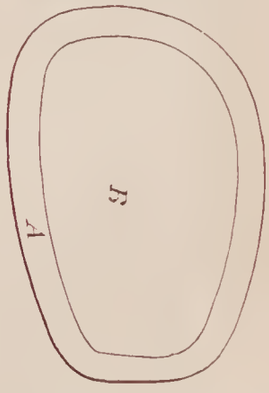
73929—C. Recht—*Sheet Metal Pipe.*



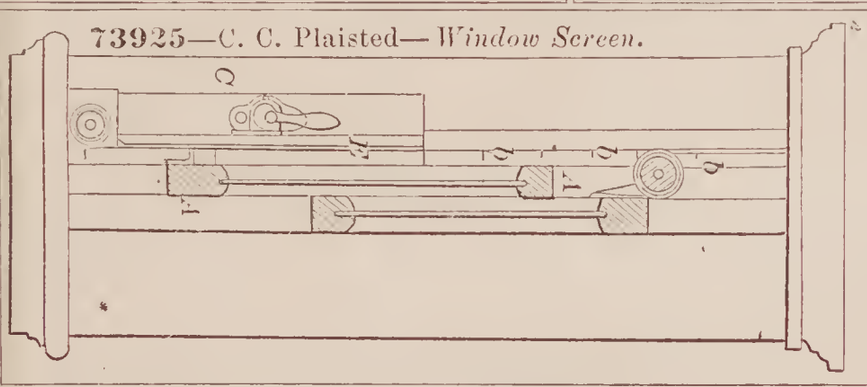
73928—C. Recht—*For Threading Sheet Metal Pipe.*



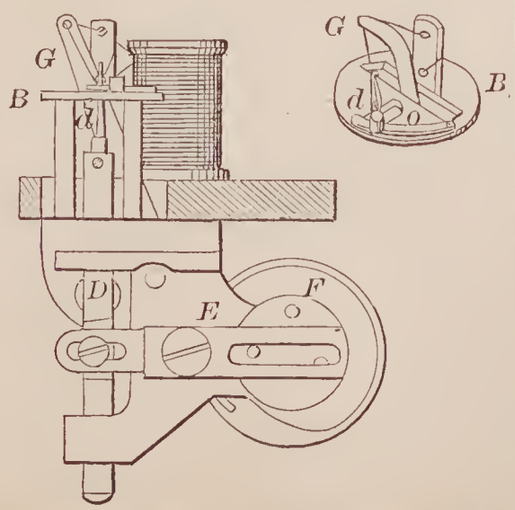
73924—R. S. Pickett—*India Rubber Sole.*



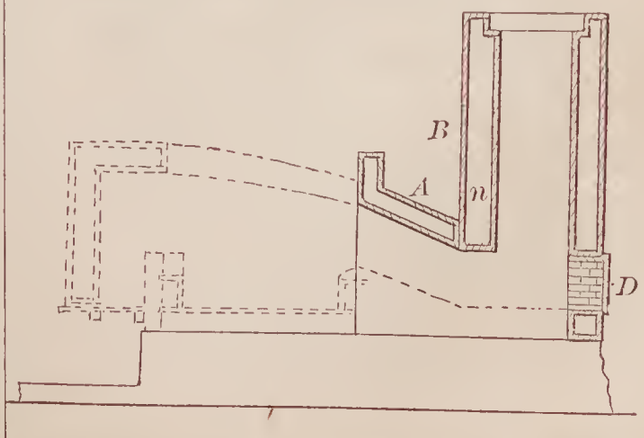
73925—C. C. Plaisted—*Window Screen.*



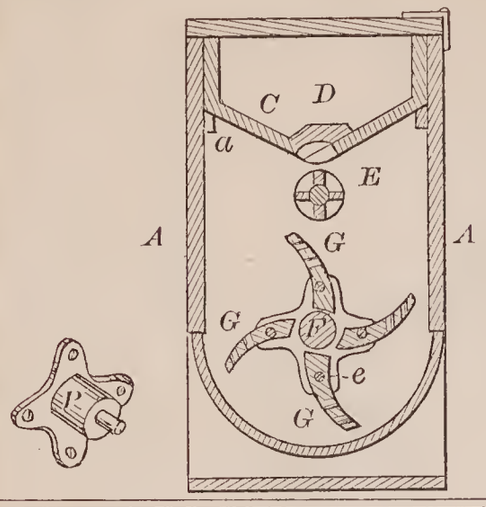
73930—G. Rehfuss—*Braid Machine.*



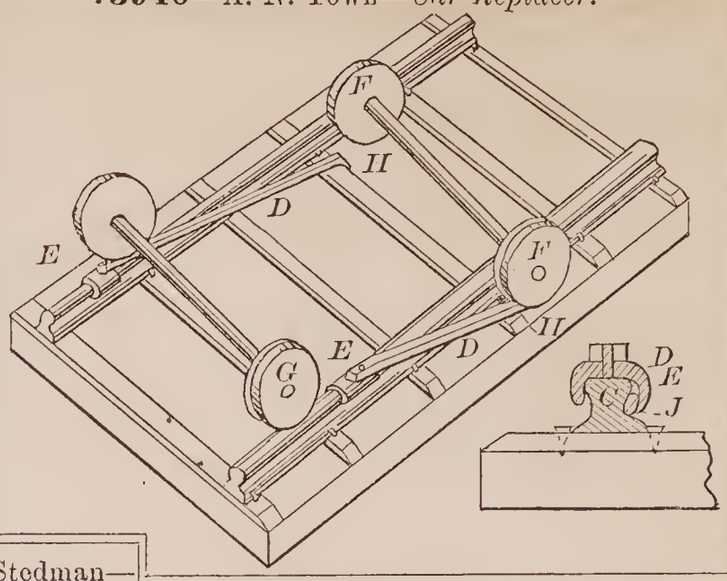
73931—H. Ross—*Puddling Furnace.*



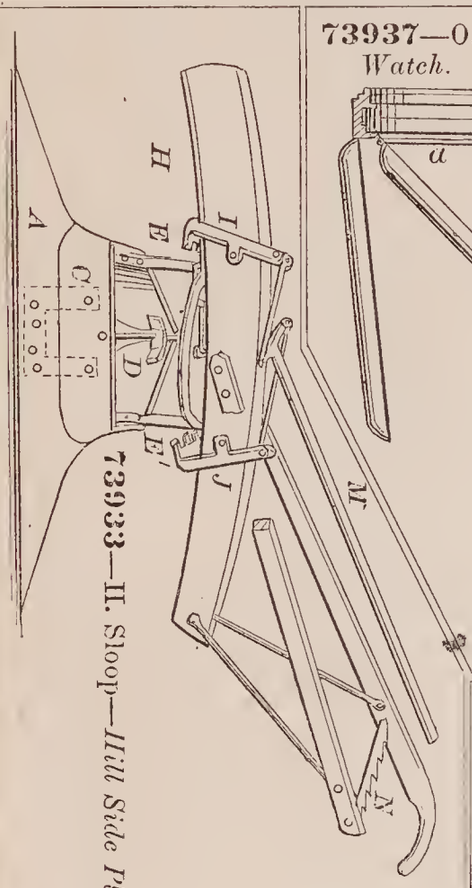
73932—J. B. Rumsey—*Churn.*



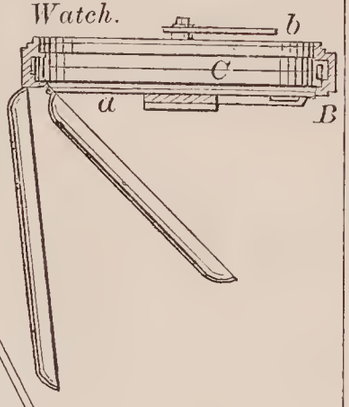
73940—A. N. Town—*Car Replacer.*



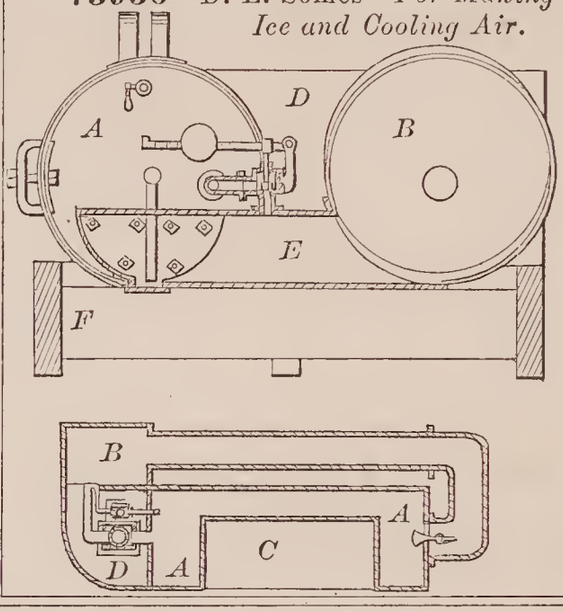
73933—H. Stoop—*Hill Side Plow.*



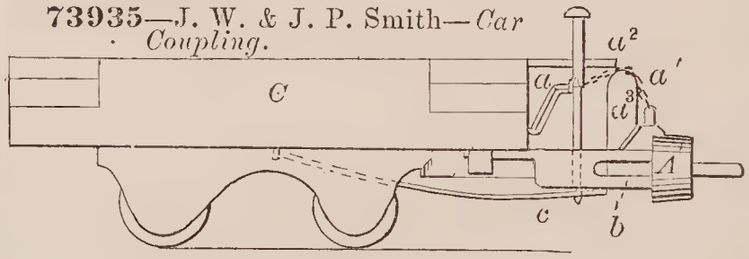
73937—O. F. Stedman—*Watch.*



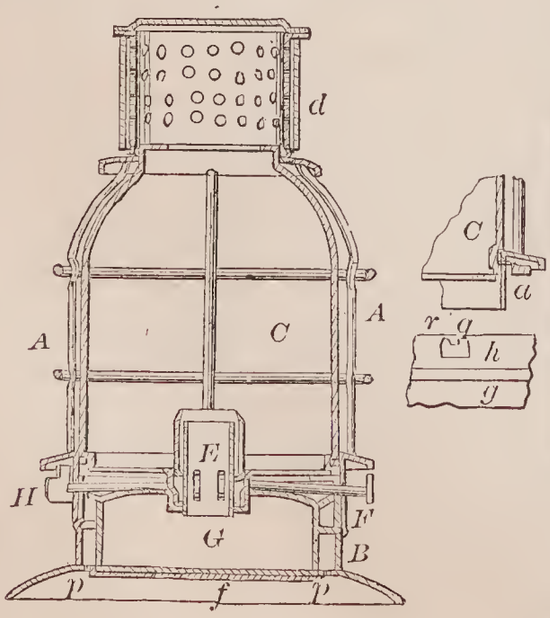
73936—D. E. Somes—*For Making Ice and Cooling Air.*



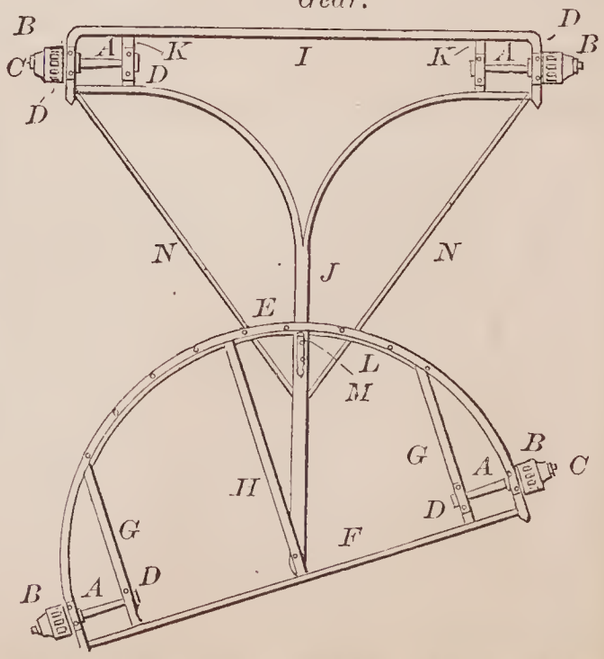
73935—J. W. & J. P. Smith—*Car Coupling.*



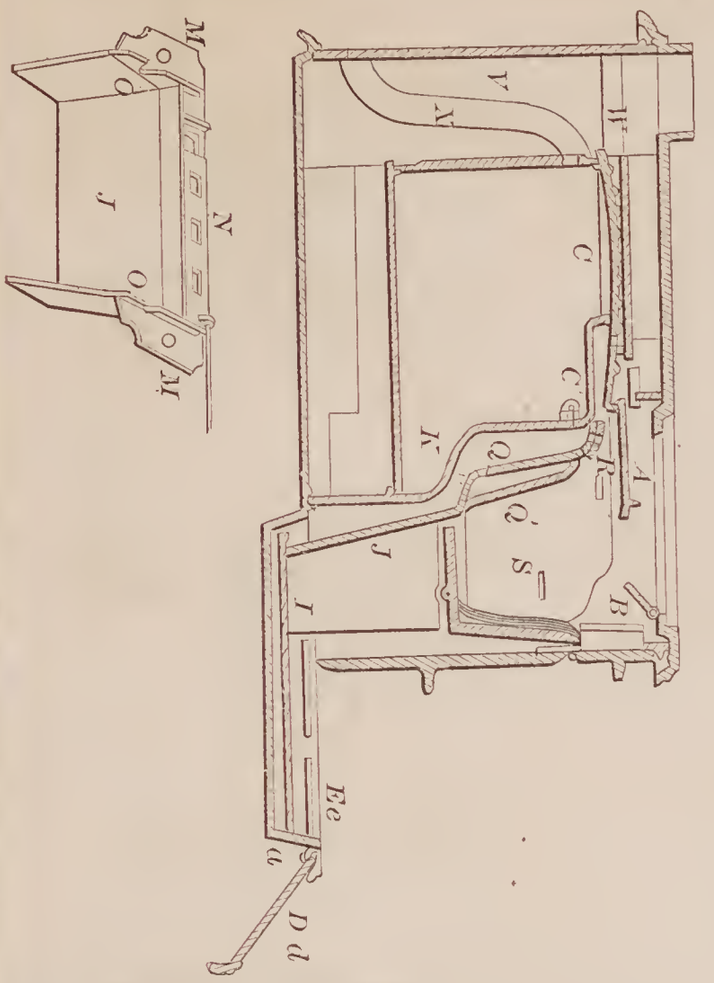
73934—A. G. Smith—*Lantern.*



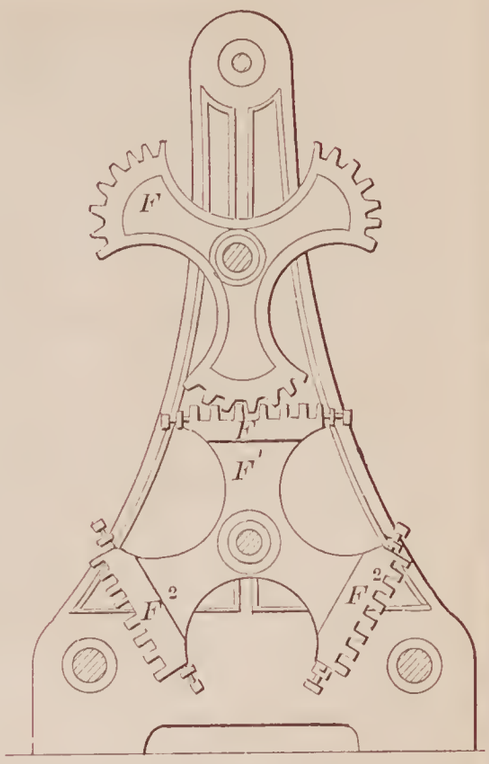
73941—J. B. Withey—*Carriage Running Gear.*



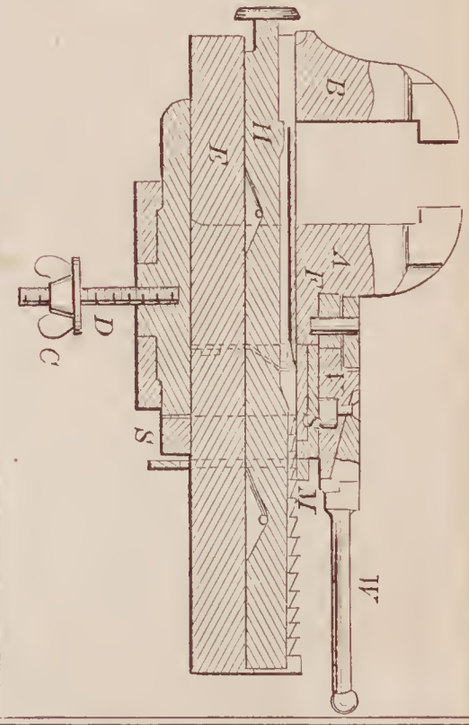
73942—Adams & Peckover—*Stove.*



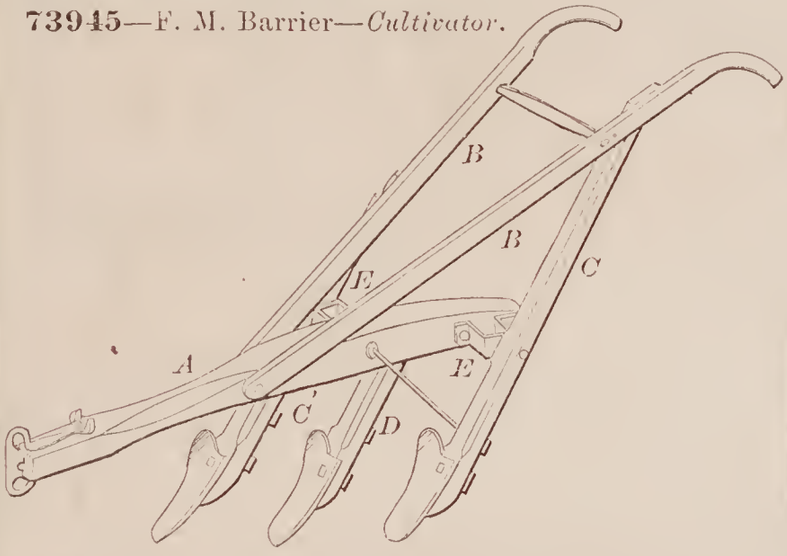
73943—E. Allen—*Printing Press.*



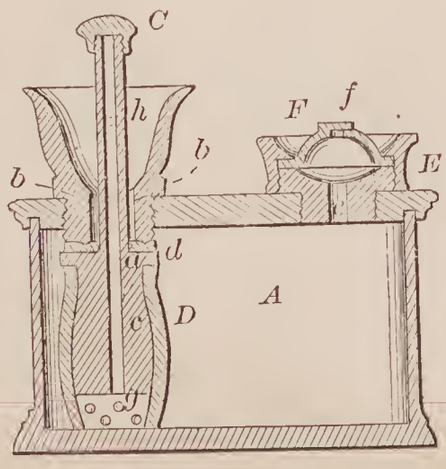
73944—S. S. Barnaby—*Vise.*



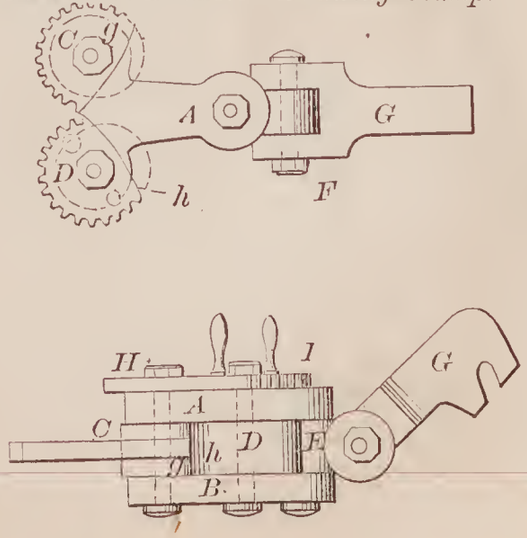
73945—F. M. Barrier—*Cultivator.*



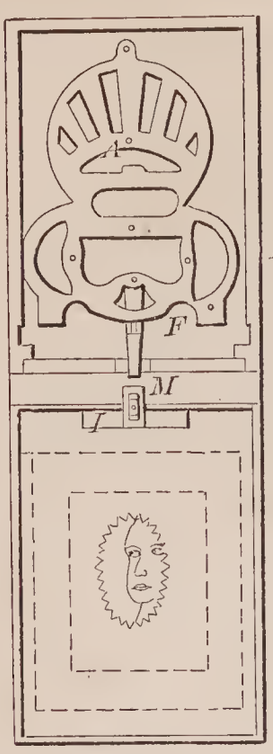
73946—J. Barwick—*Inkstand.*



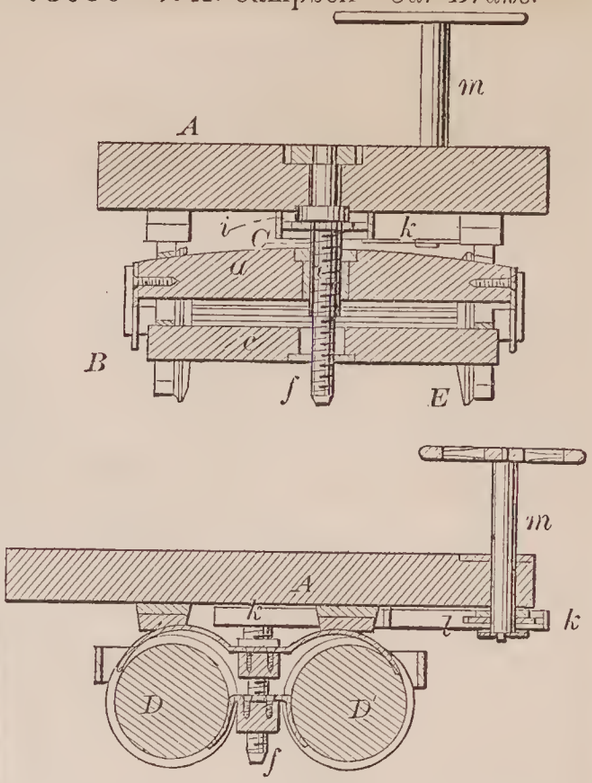
73947—J. Bouniol—*Drawing Clamp.*



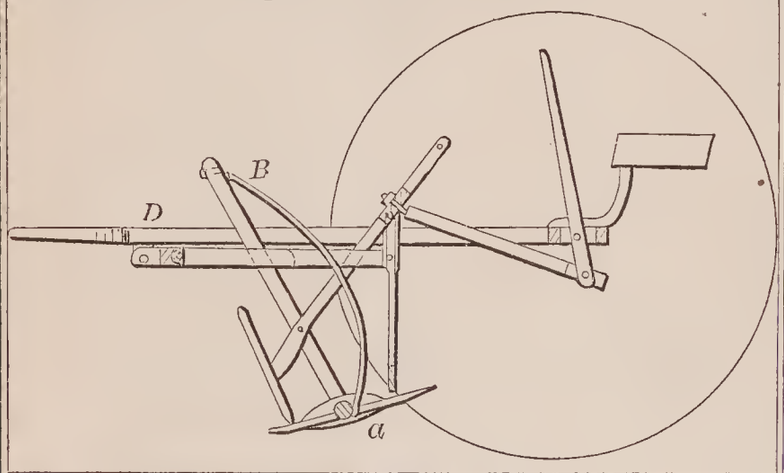
73948—E. & E. W. Brown—*Photographic Printing Apparatus.*



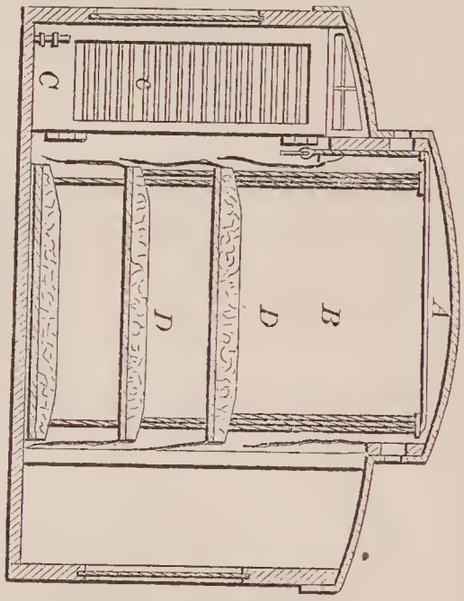
73950—J. A. Campbell—*Car Brake.*



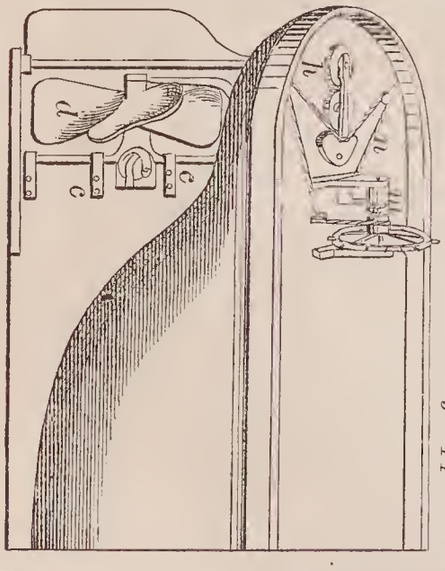
73952—A. Chapman—*Horse Rake.*



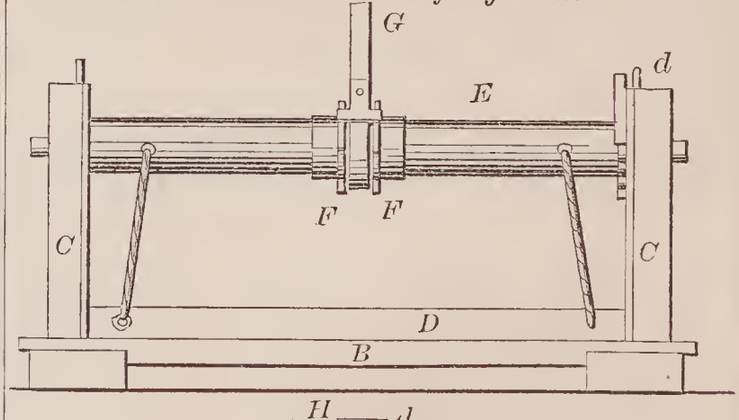
73949—W. Brown—*Railroad Car.*

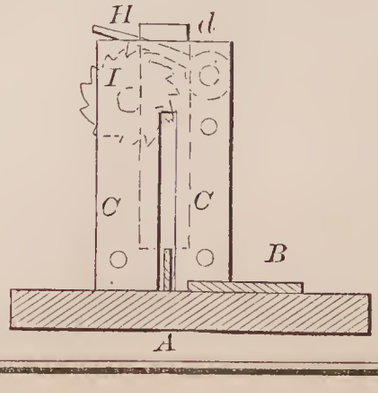


73951—J. L. Catheart—*Steering Apparatus.*

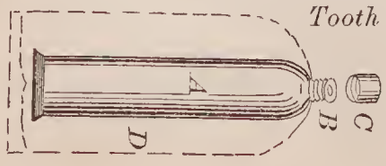


73954—J. Coulter, Sr.—*Lifting Jack.*

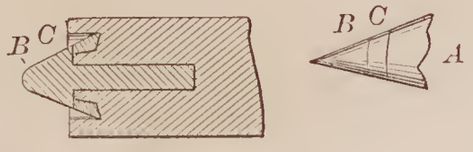




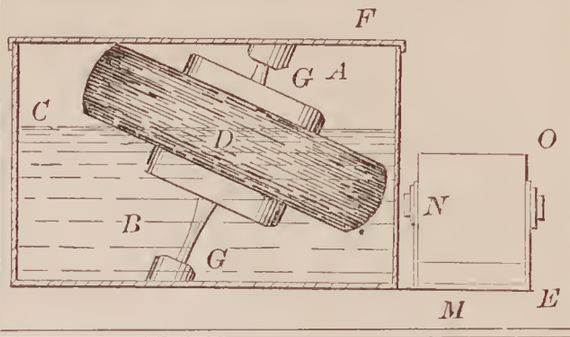
73953—G. F. J. Colburn—*Case for Tooth Paste.*



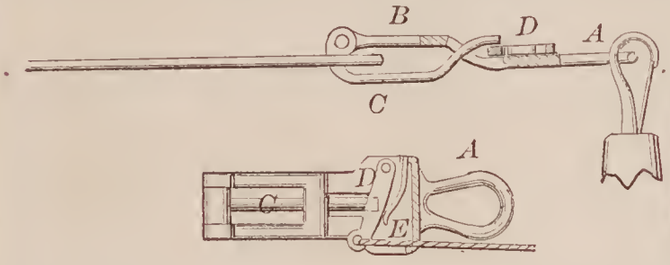
73955—E. Cross—*Loom Shuttle.*



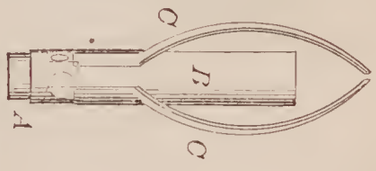
73956—S. Darling—*Pen Wiper.*



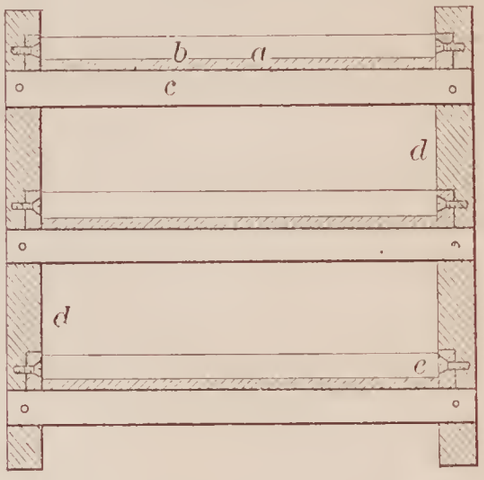
73958—J. L. Dickinson—*Safety Harness Hook.*



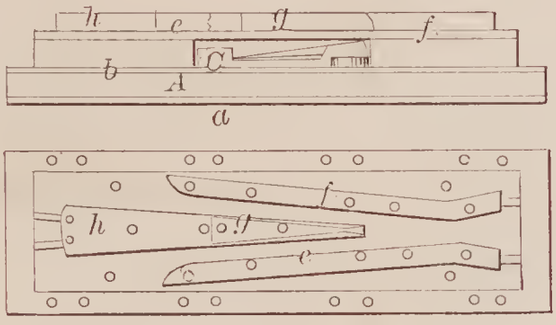
73957—S. Darling—*Gas Heater.*



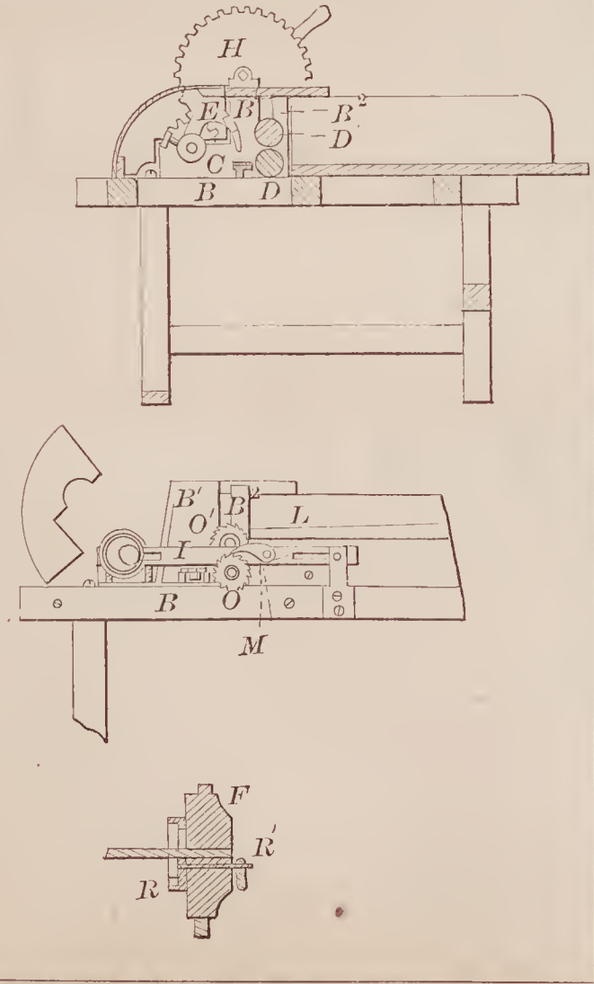
73960—C. A. Erskine—*Egg Preserving Frame.*



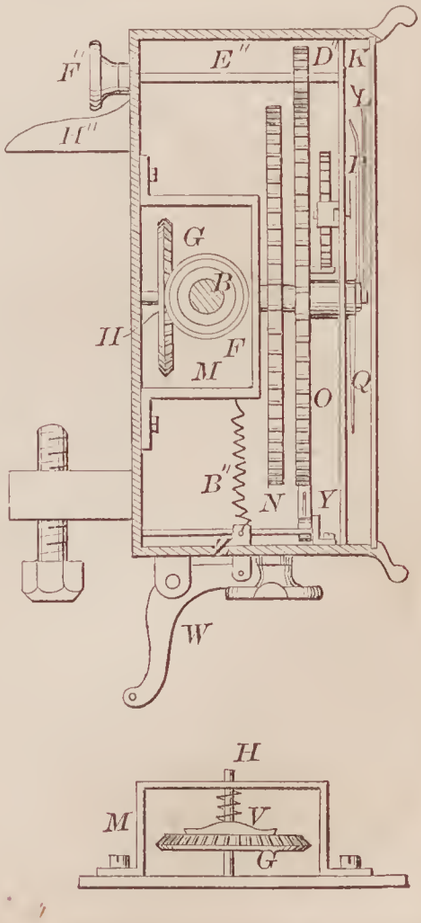
73959—Dow & Riker—*Railway Frog.*



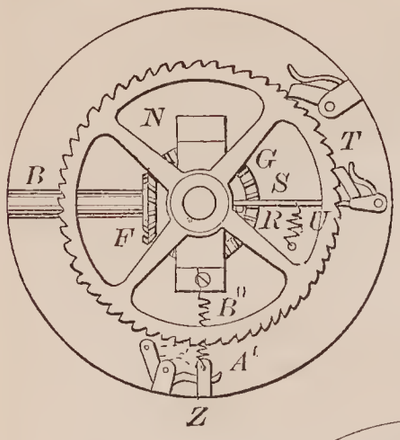
73961—Evans & Wainwright—*Straw Cutter.*

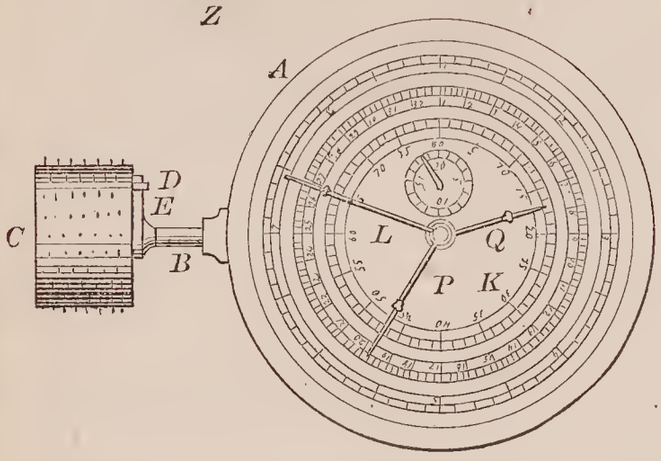


73962—Fellows, Harrison & Dyer—*Loom Indicator.*

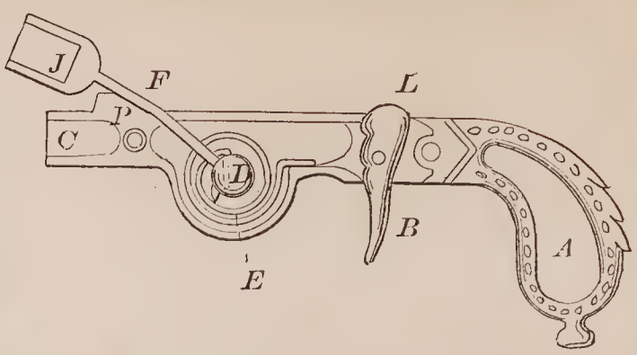


73962—*Continued.*



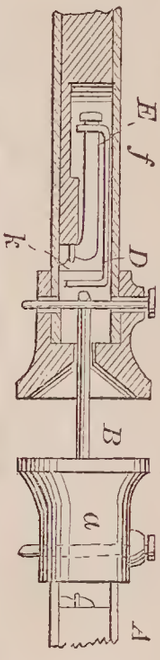


73966—R. Frisbie—*Toy Gun.*

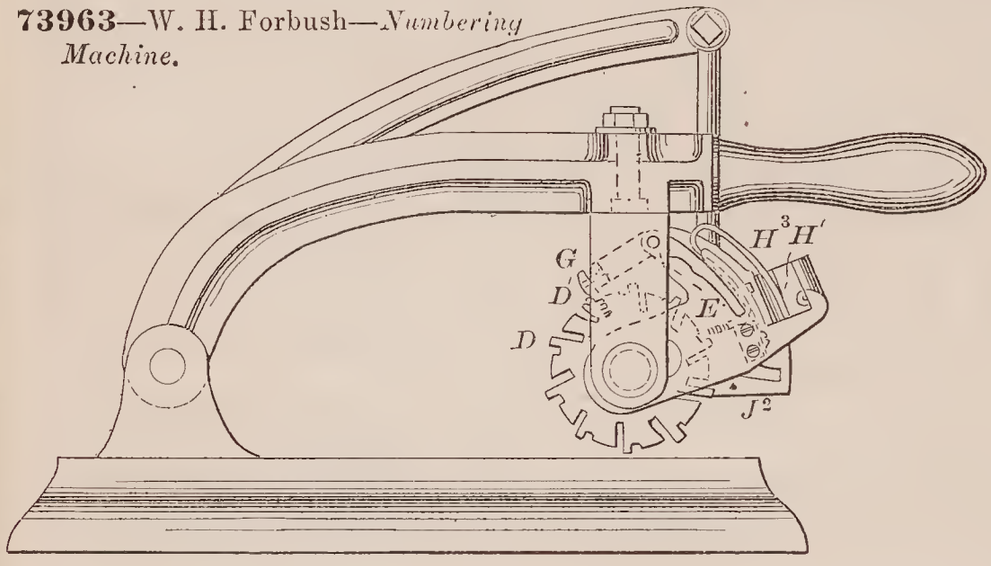


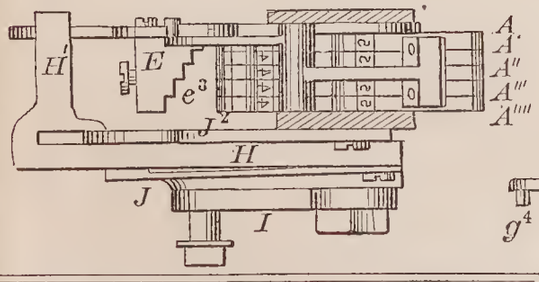
73968—W. Fry—*Wetting Instrument for Slates.*

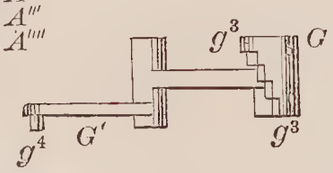
73964—J. Fortier—*Car Coupling.*



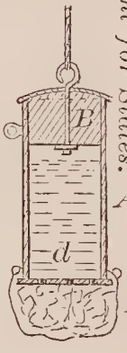
73963—W. H. Forbush—*Numbering Machine.*



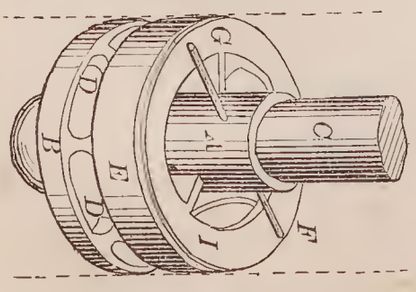


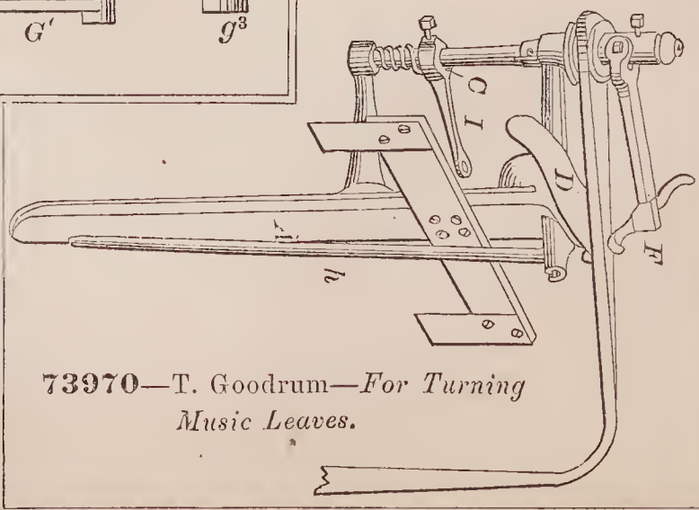


73967—W. T. Fry—*Wiping Instrument for Slates.*



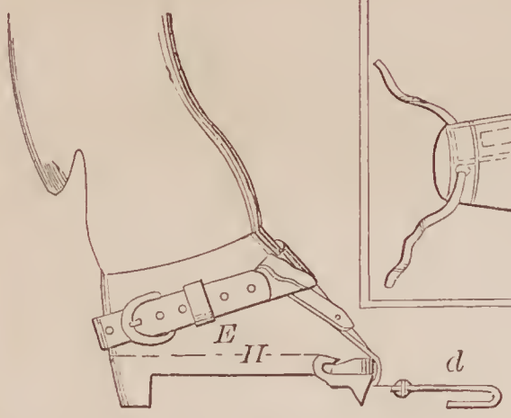
73969—S. P. Gilbert—*Pump Piston*



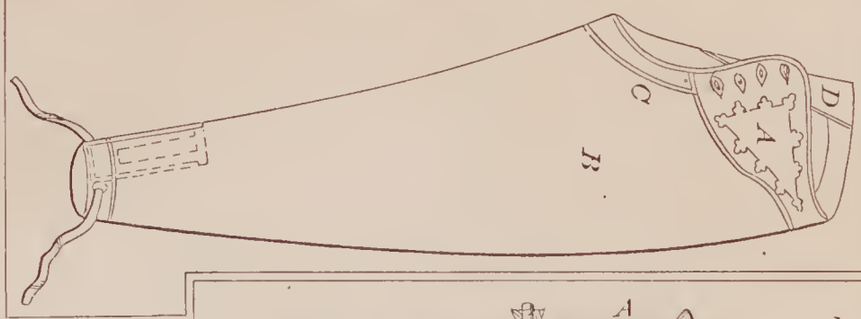


73970—T. Goodrum—*For Turning Music Leaves.*

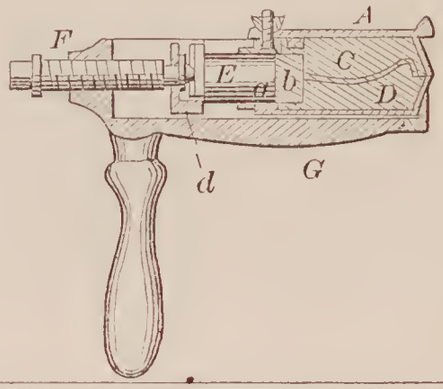
73971—W. T. Harmar—*Horse Shoe.*



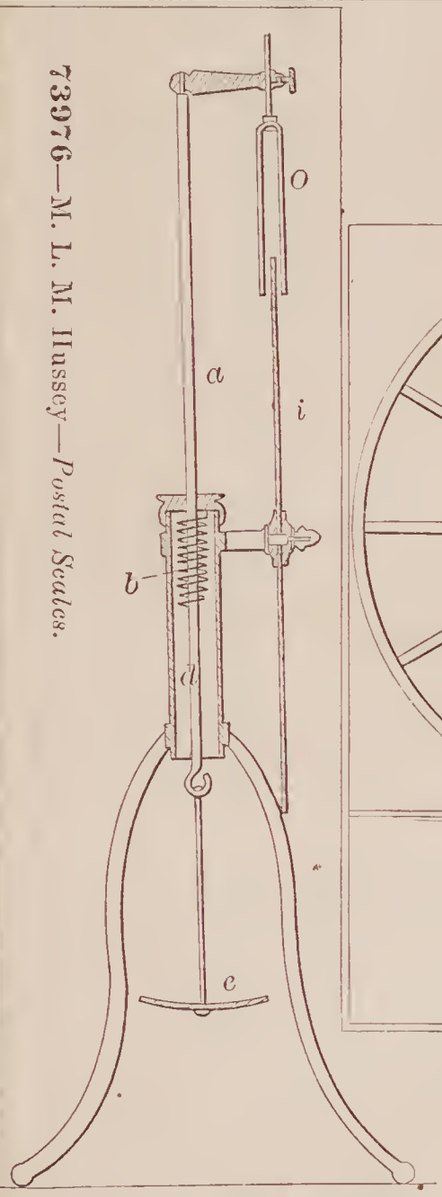
73975—H. Heath—*Drawers.*



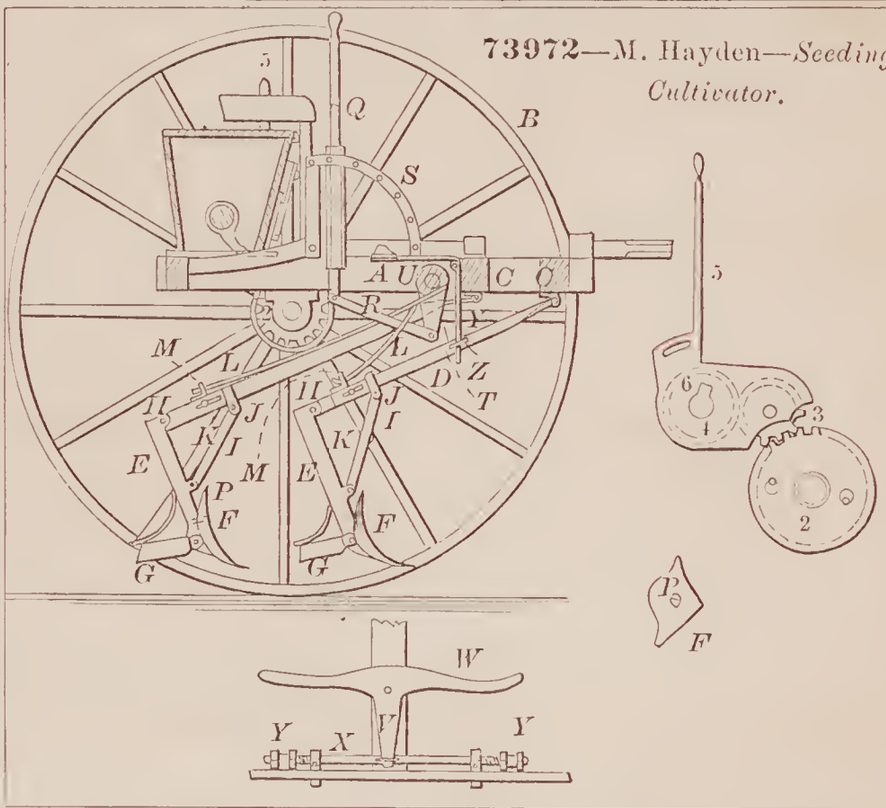
73974—G. E. Hayes—*Dentists' Flask.*



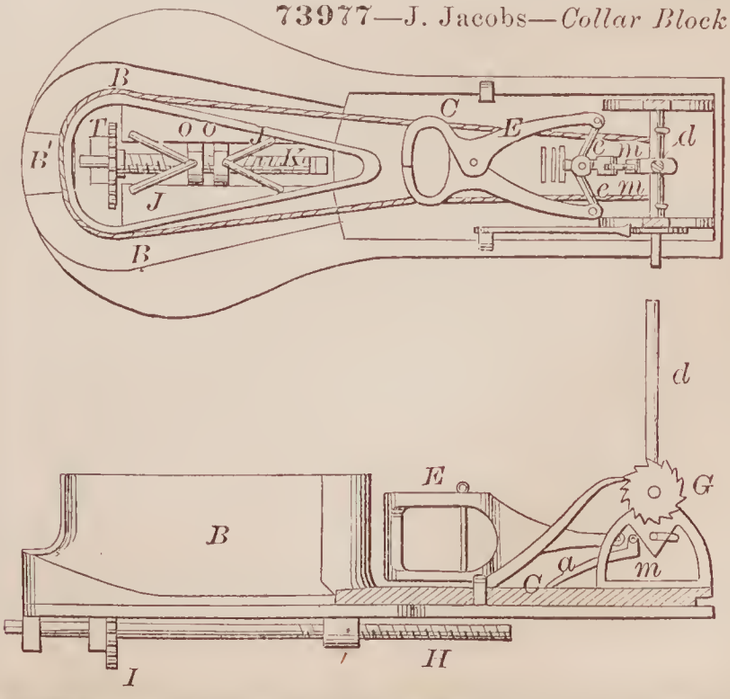
73976—M. L. M. Hussey—*Postal Scales.*



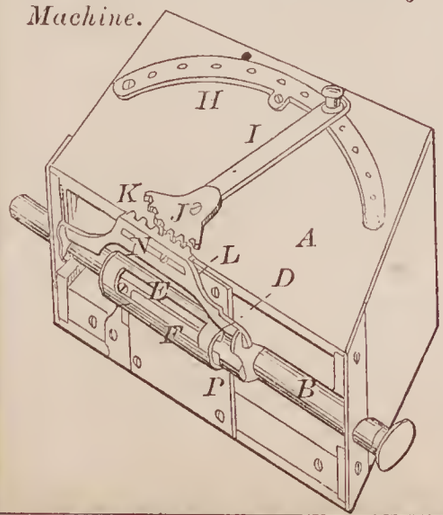
73972—M. Hayden—*Seeding Cultivator.*



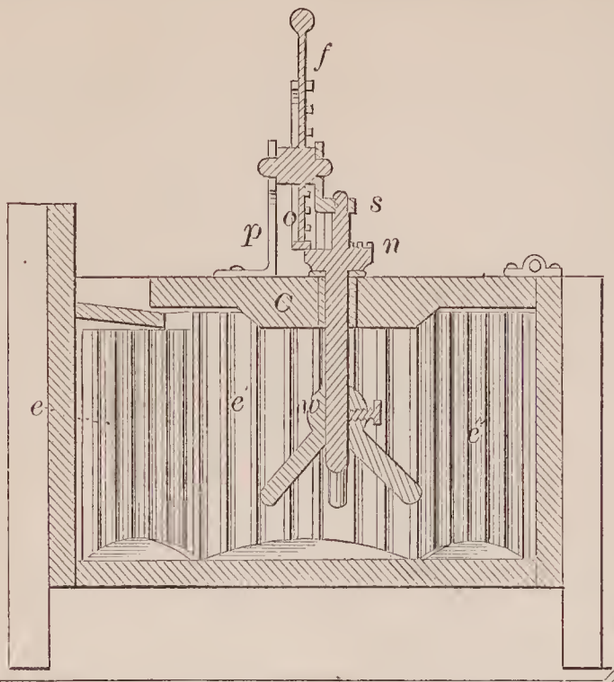
73977—J. Jacobs—*Collar Block*



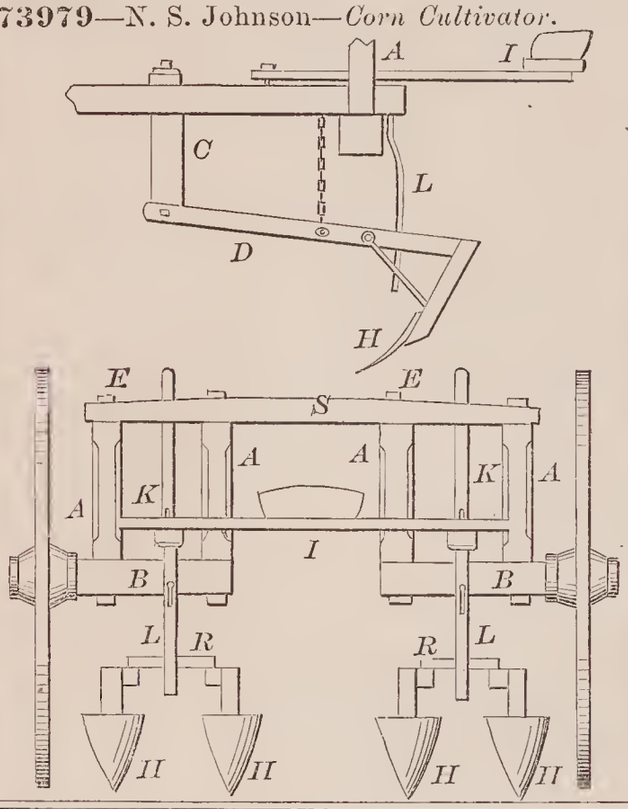
73973—M. Hayden—*Seeding Machine.*



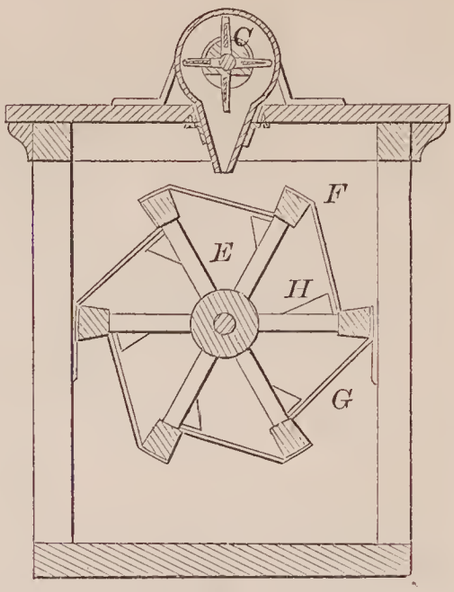
73978—M. V. Jennings—*Washing Machine.*



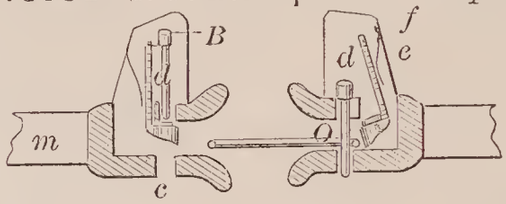
73979—N. S. Johnson—*Corn Cultivator.*



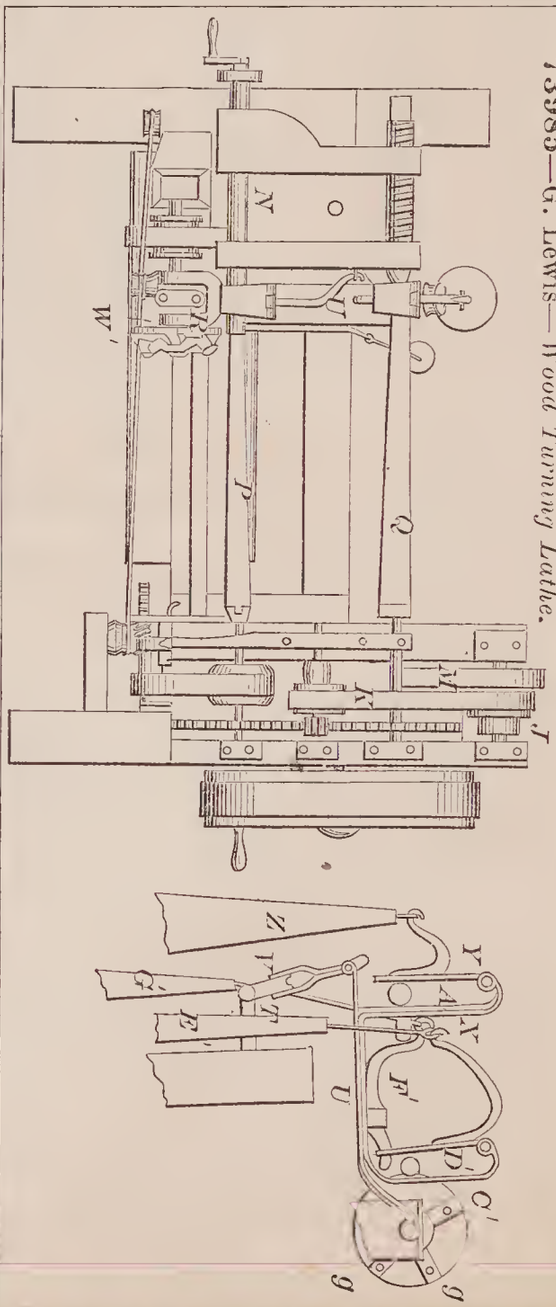
73981—E. H. Kellogg—*Flour Bolt.*



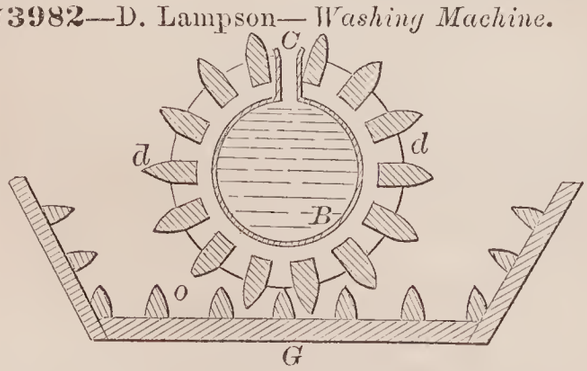
73984—S. D. Lecompte—*Car Coupling.*



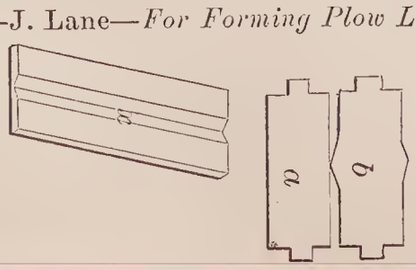
73985—G. Lewis—*Wood Turning Lathe.*



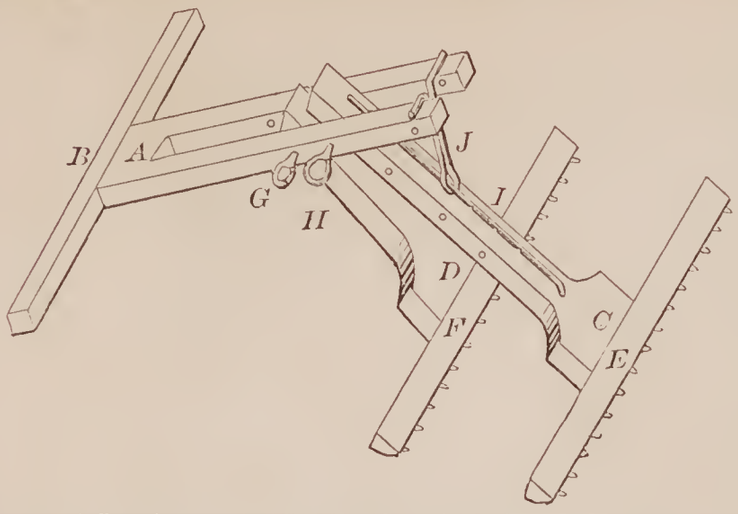
73982—D. Lampson—*Washing Machine.*



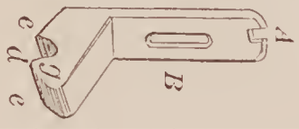
73983—J. Lane—*For Forming Plow Lays.*



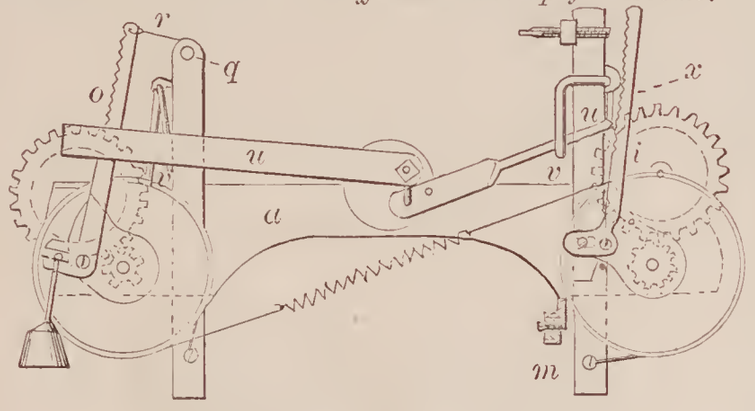
73986—C. S. McRobert—*Carpet Stretcher.*



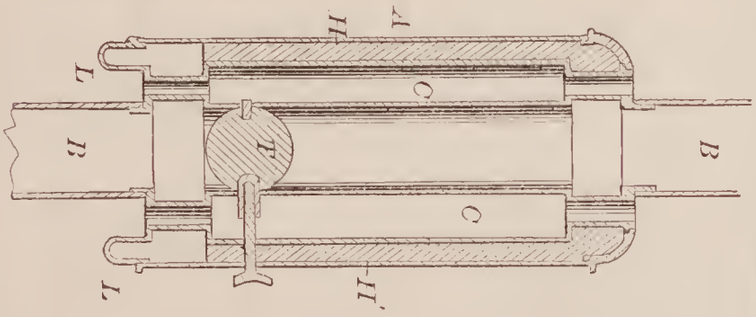
73987—G. B. Melcher—*Window Blind Fastening.*



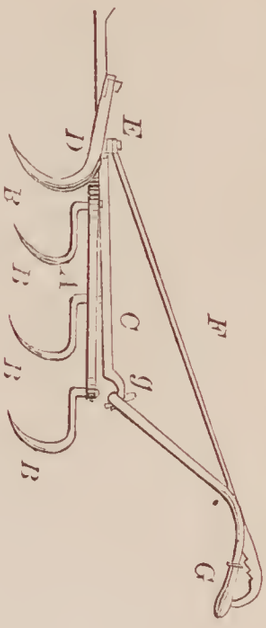
73993—J. Pender—*Let-off and Take-up for Looms.*



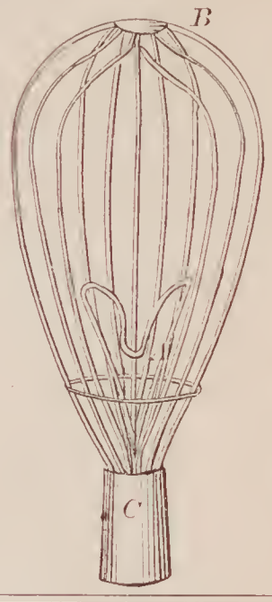
73990—M. S. Morgan—*Stove Drum.*



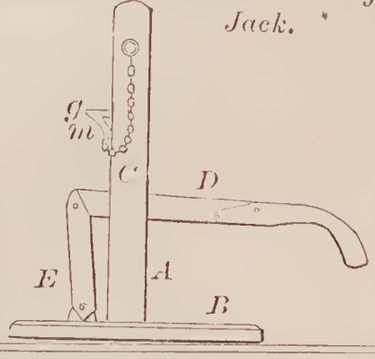
73983—J. W. Milroy—*Corn and Cotton Cultivator.*



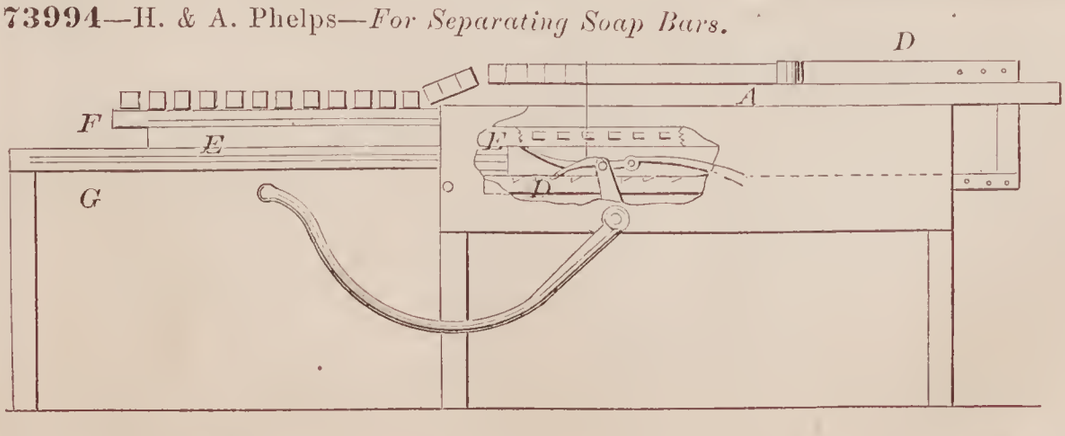
73989—O. B. Moore—*Fruit Picker.*



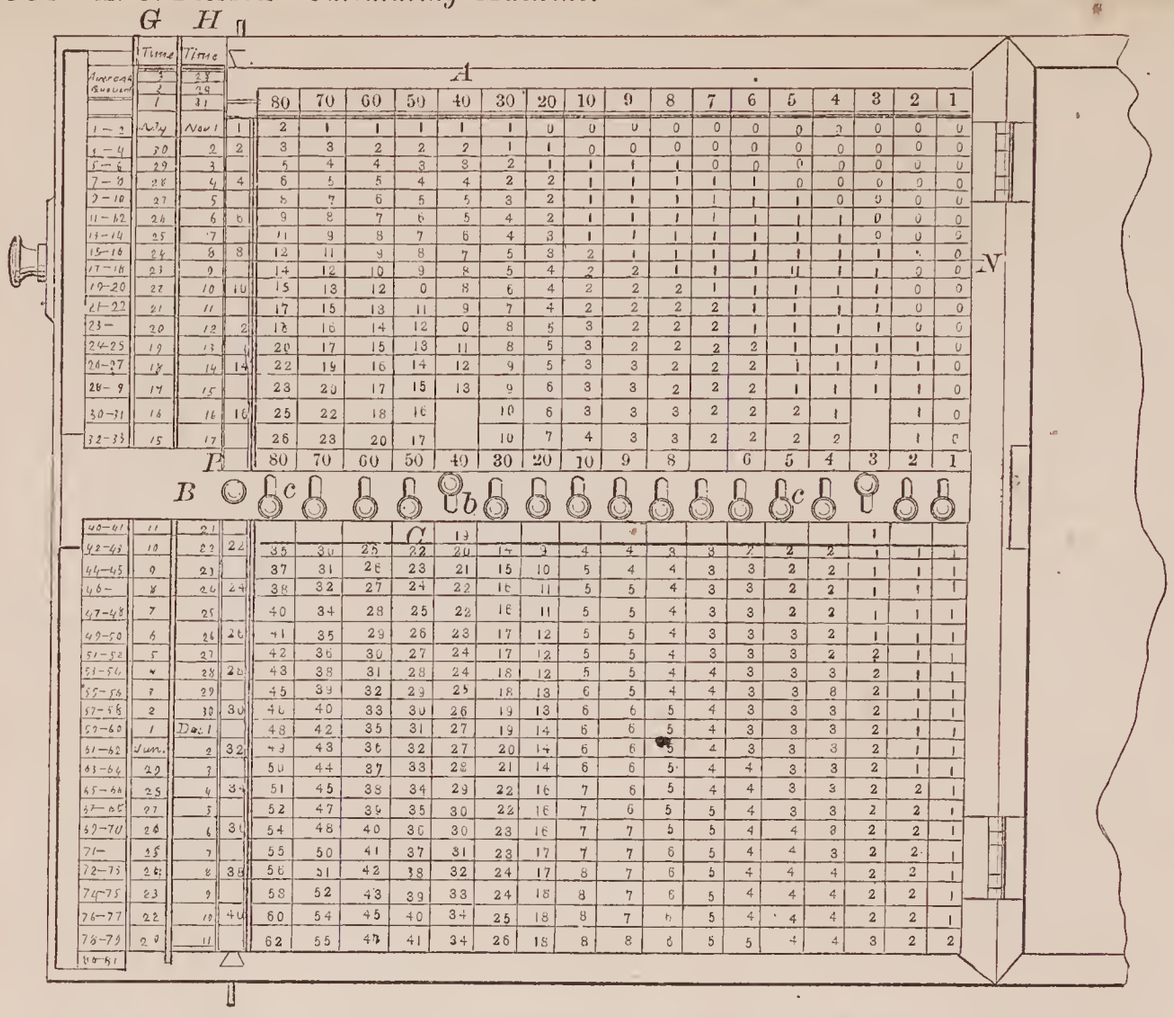
73992—C. H. Paine—*Carriage Jack.*



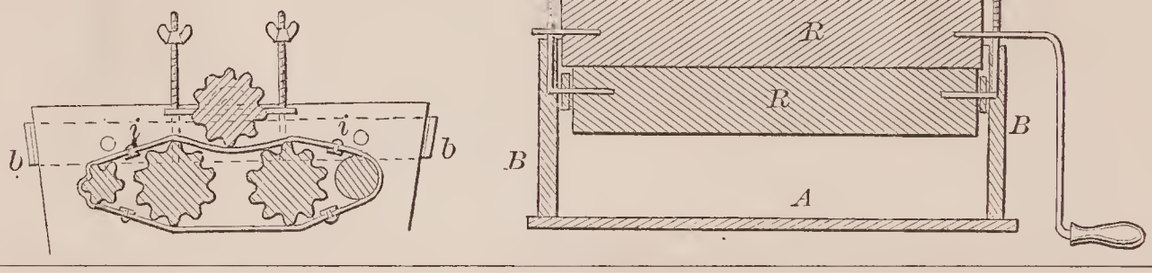
73994—H. & A. Phelps—*For Separating Soap Bars.*



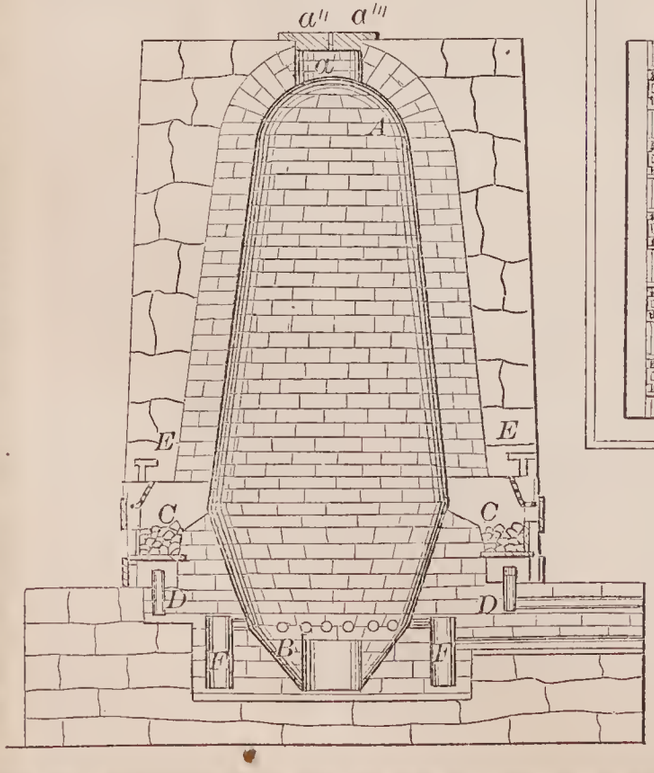
73995—A. C. Pierson—*Calculating Machine.*



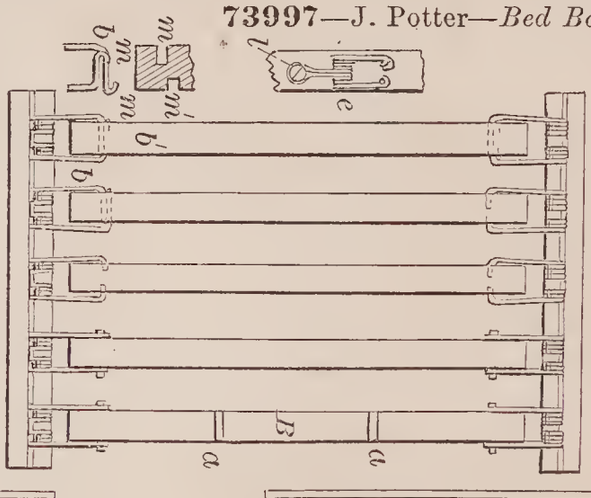
73996—J F. Pond—*Washing Machine.*



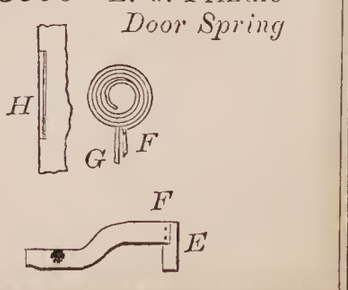
73998—W. W Potts—*Lime Kiln.*



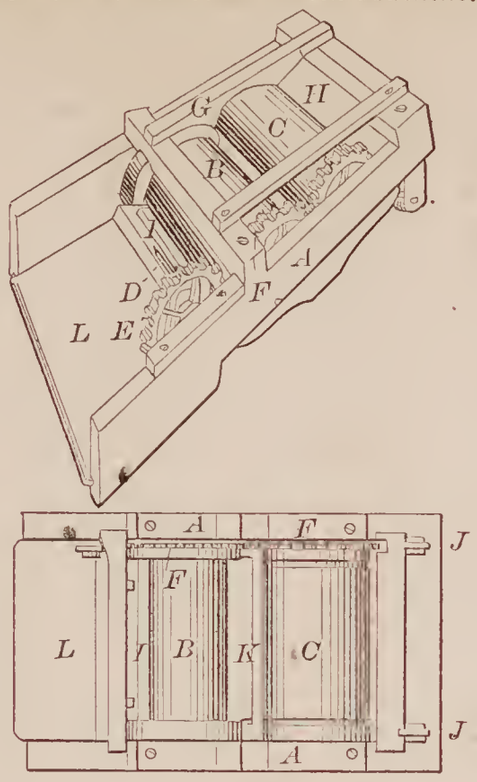
73997—J. Potter—*Bed Bottom.*



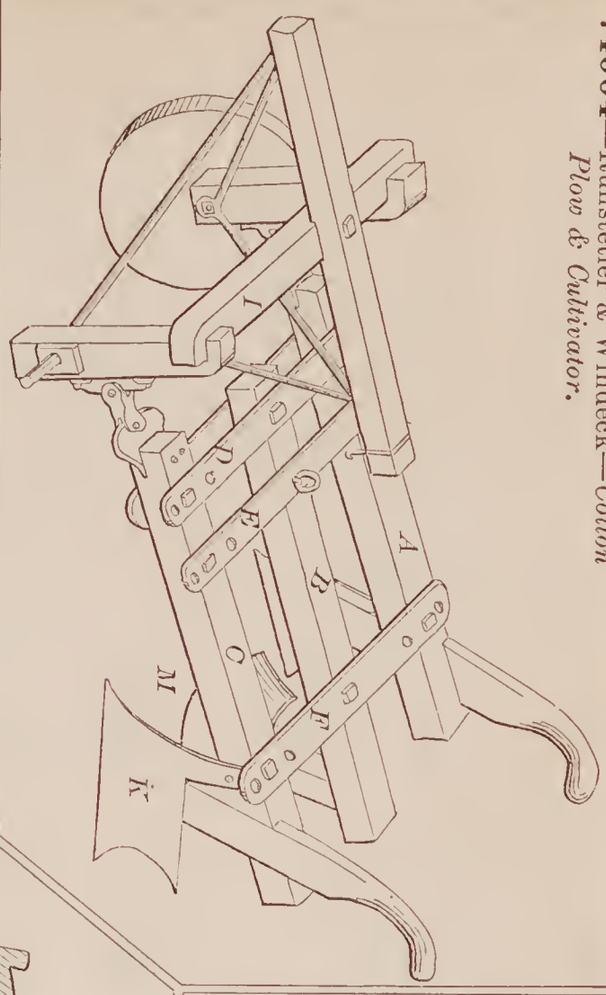
73999—L. C. Prindle—*Door Spring*



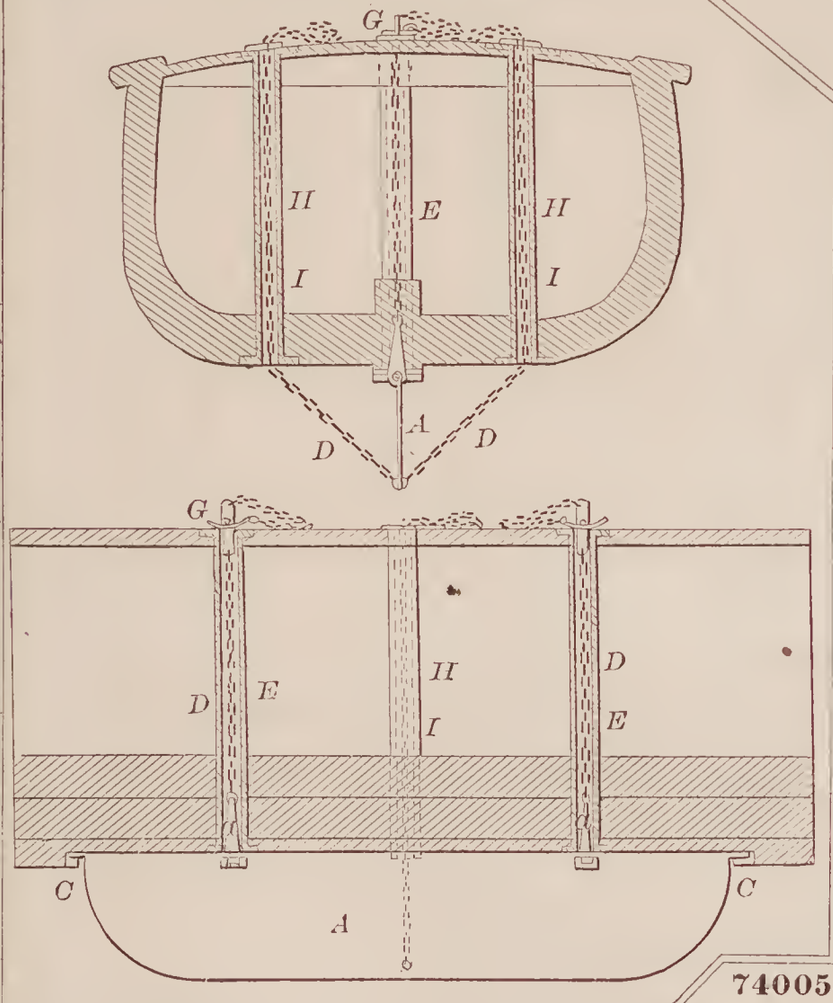
74000—L. E. Ransom—*Brick Machine.*



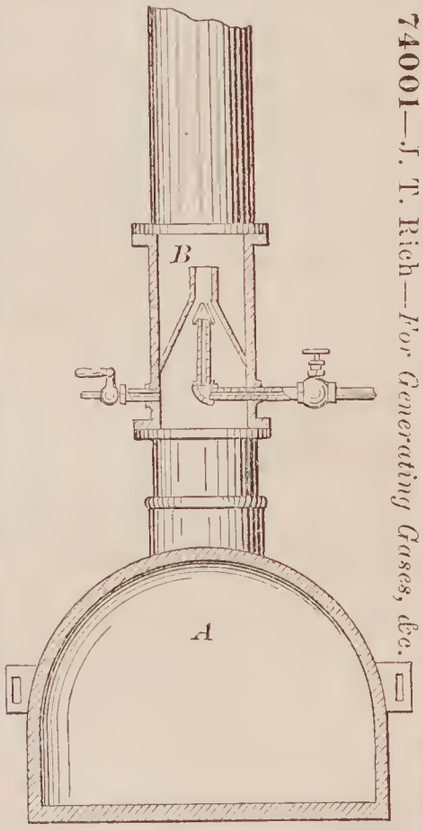
74004—Runstetler & Windeck—*Cotton Plow & Cultivator.*



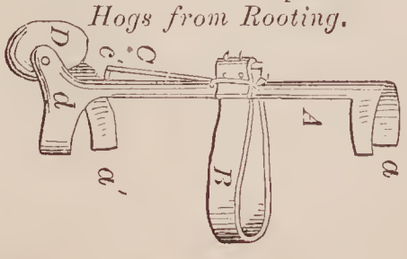
74003—D. Robertson—*Vessel Centre Board.*



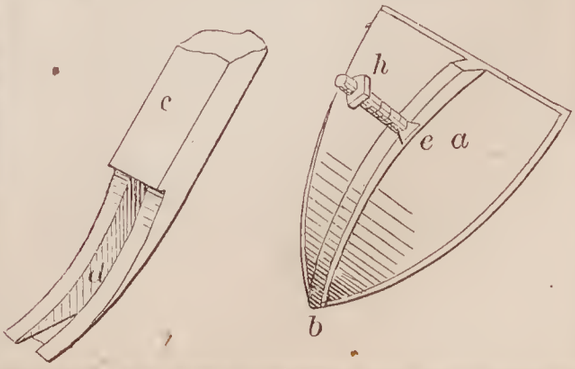
74001—J. T. Rich—*For Generating Gases, &c.*



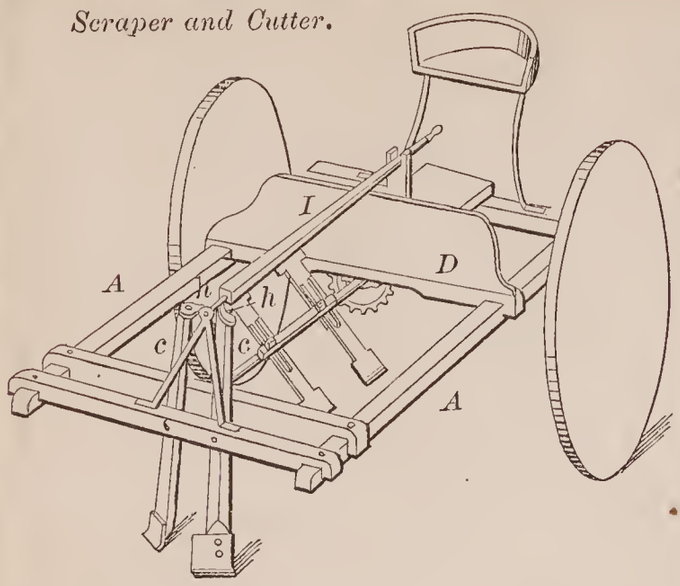
74002—Rinehart & Phillips—*For Preventing Hogs from Rooting.*

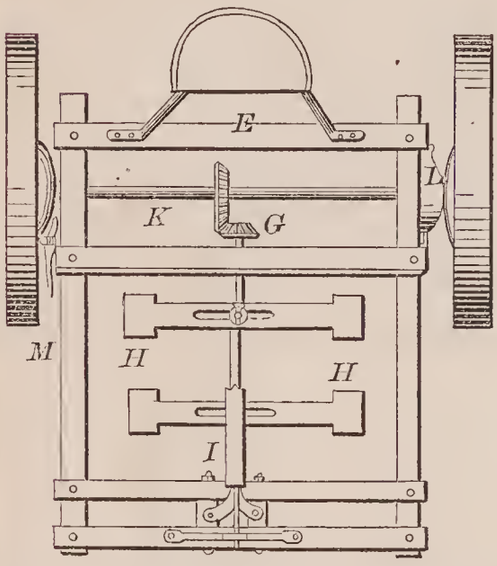


74005—L. Rogers—*Cultivator Teeth.*

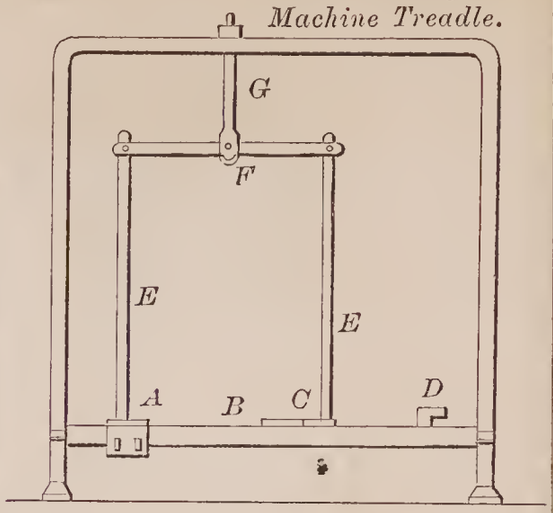


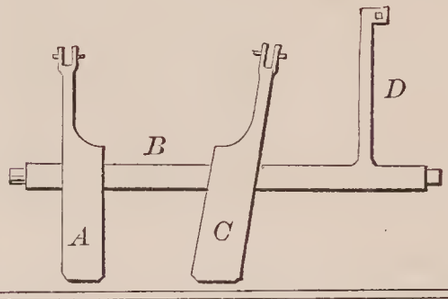
74006—Runstetler & Windeck—*Cotton Scraper and Cutter.*



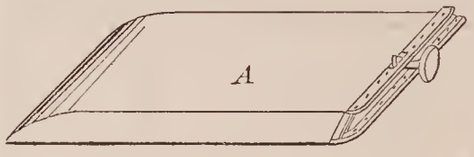


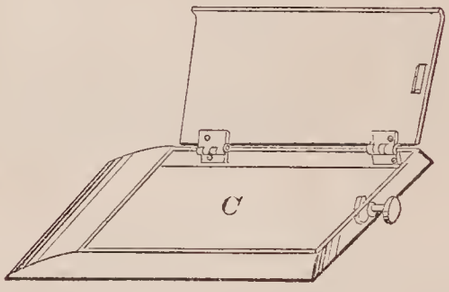
74007—Rutter & Hunt—*Sewing Machine Treadle.*



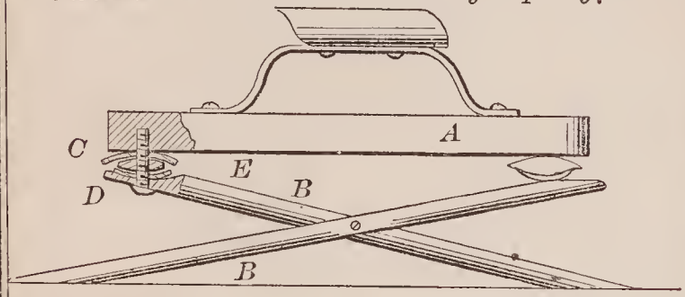


74008—C. Sanborn—*Safety Pocket.*

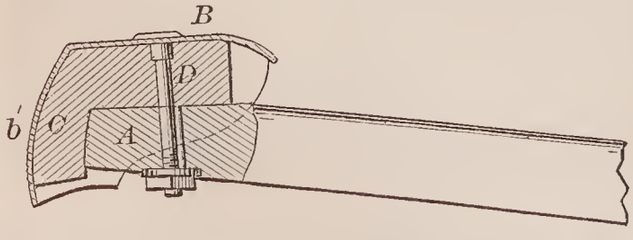




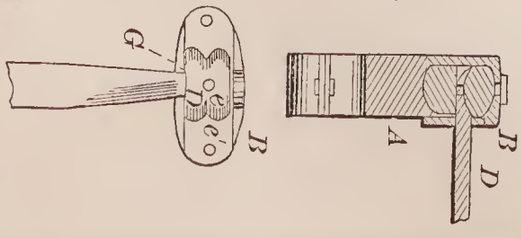
74009—J. D. Sarven—*Carriage Spring.*



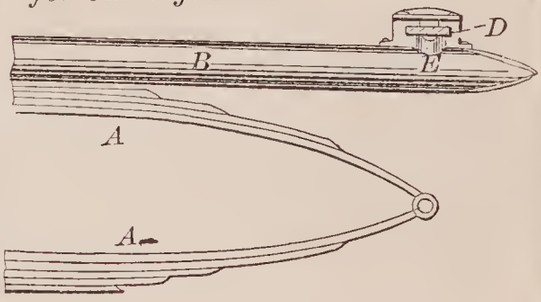
74010—J. D. Sarven—*Carriage Spring.*

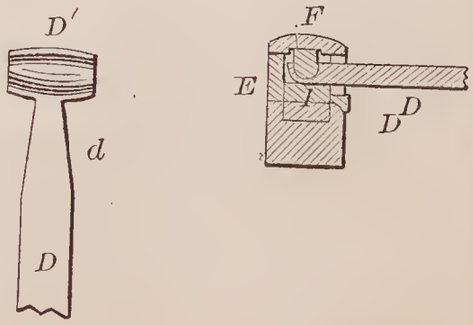


74011—J. D. Sarven—*Carriage Iron.*

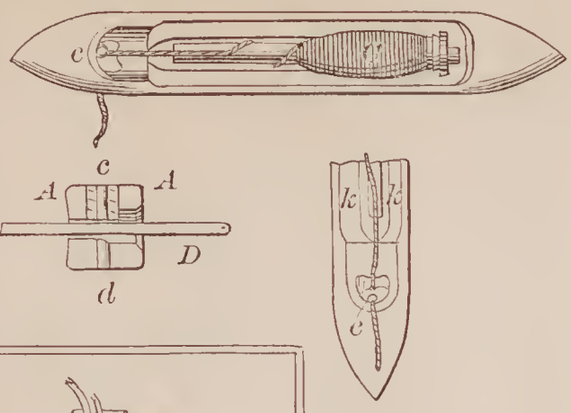


74012—J. D. Sarven—*Elastic Bearing for Carriage Irons.*





74013—L. Scofield—*Loom Shuttle.*



74014—H. M. Shute—*Book Binding.*

Fig. 3 Fig. 1

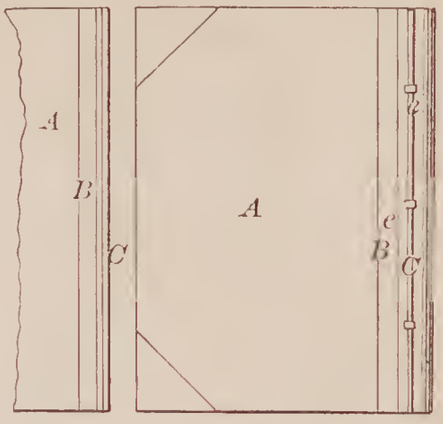


Fig. 2

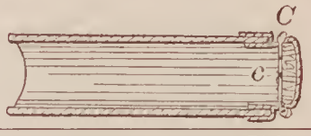
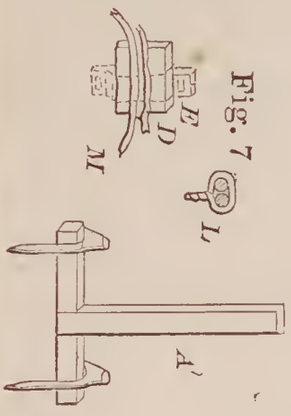
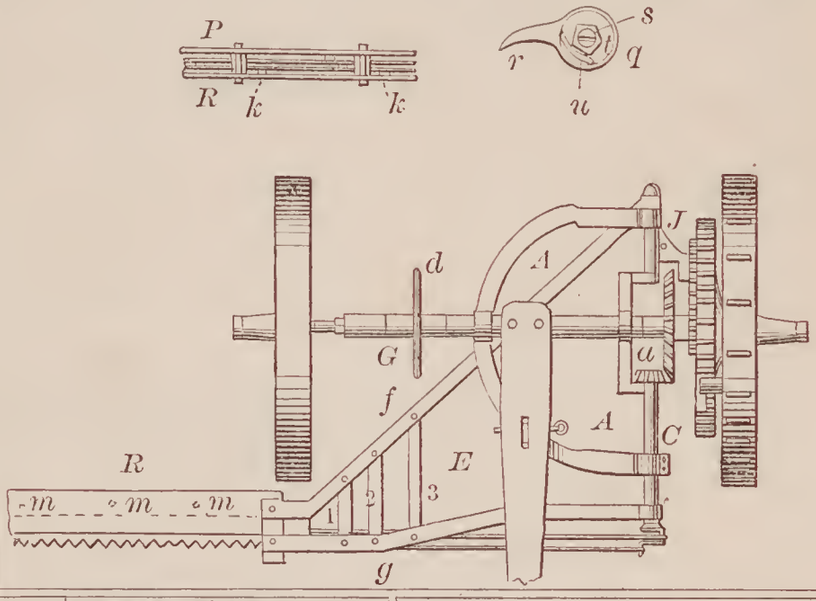


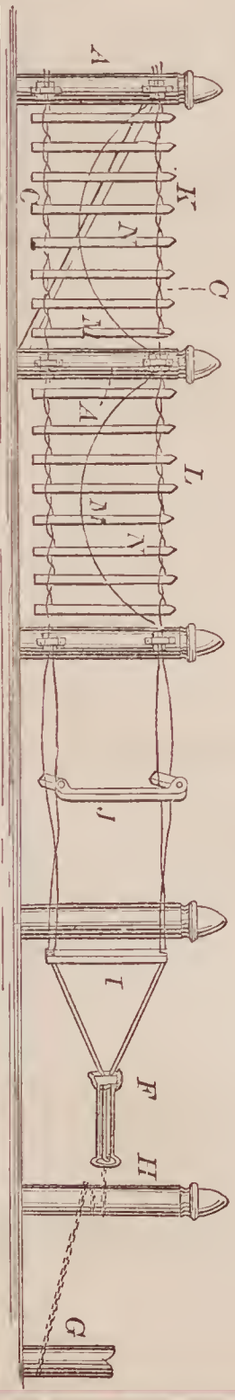
Fig. 7



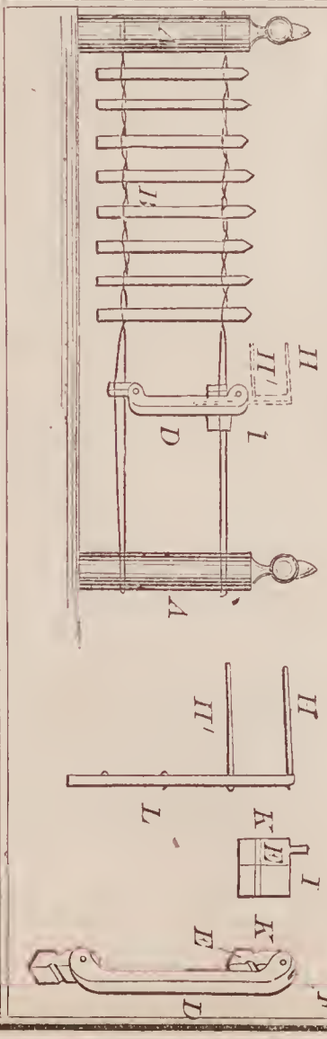
74016—J. W. Thompson—*Harvester.*



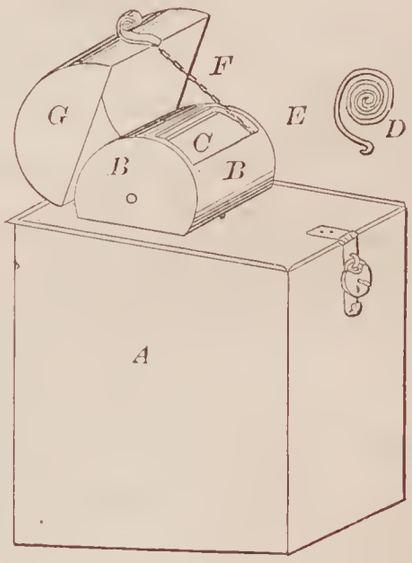
74017—A. Todd, Jr.—*Fence.*



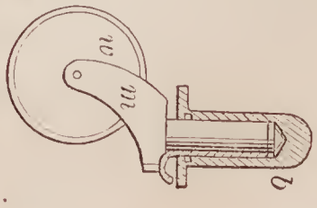
74018—A. Todd, Jr.—*Fence.*



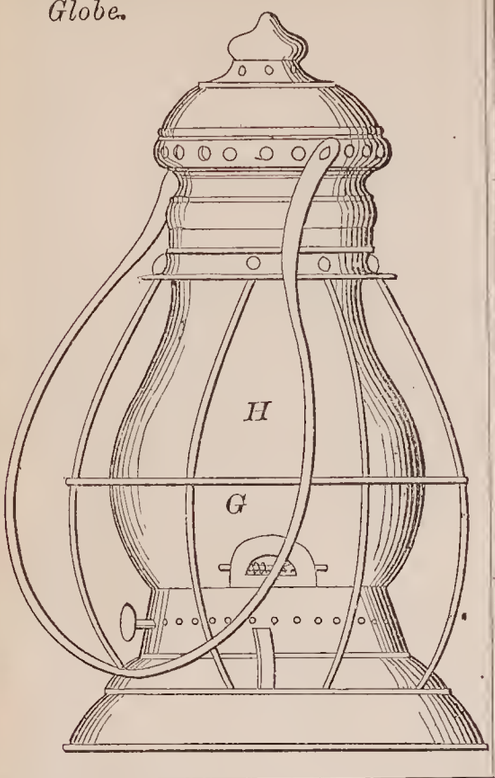
74015—J. W. & J. D. Smith—*Letter Box.*



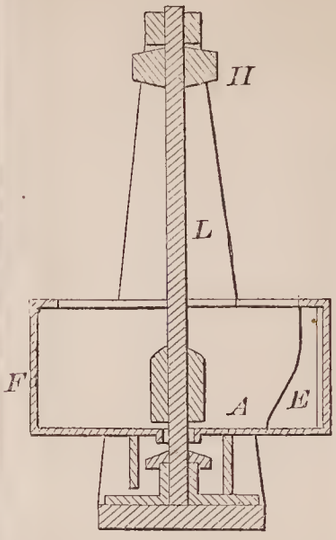
74019—A. C. Twining—*Caster.*



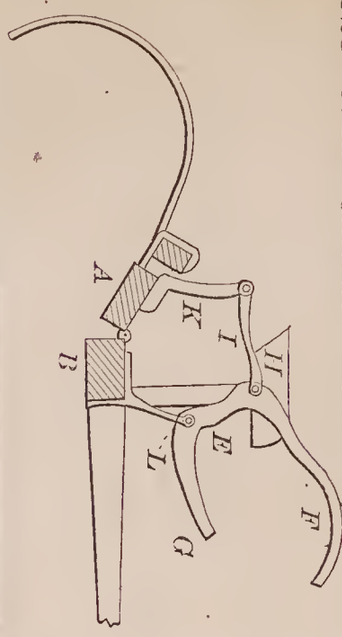
74020—W. Westlake—*Lantern Globe.*



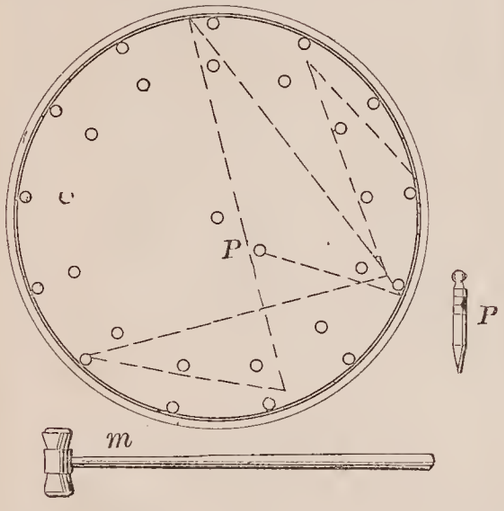
74021—D. M. Weston—*For Separating Liquids from Paints.*



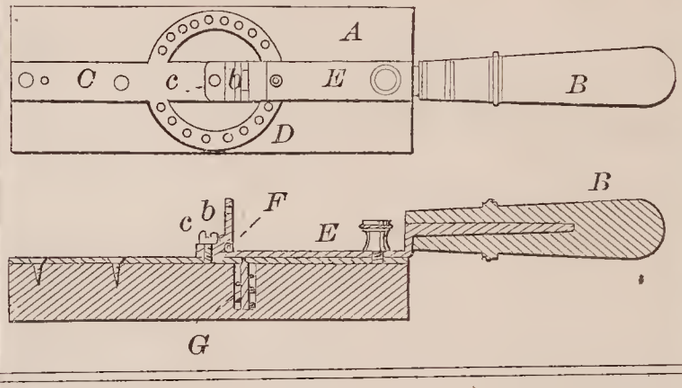
74023—J. R. Whittemore—*Horse Rake.*



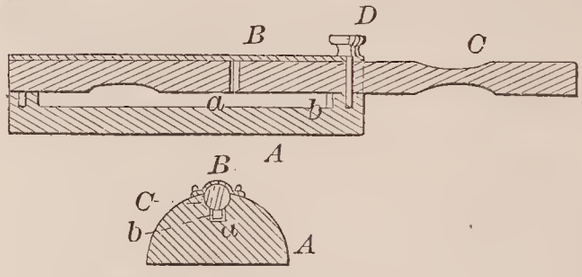
74022—J. E. Wheat—*Letter Game.*



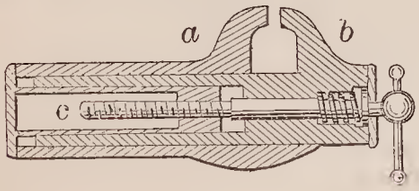
74026—A. A. Young—*Brush Stock and Handle.*



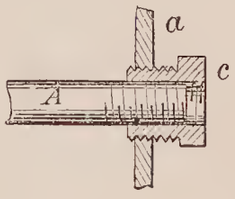
74027—A. A. Young—*Brush Stock and Handle.*



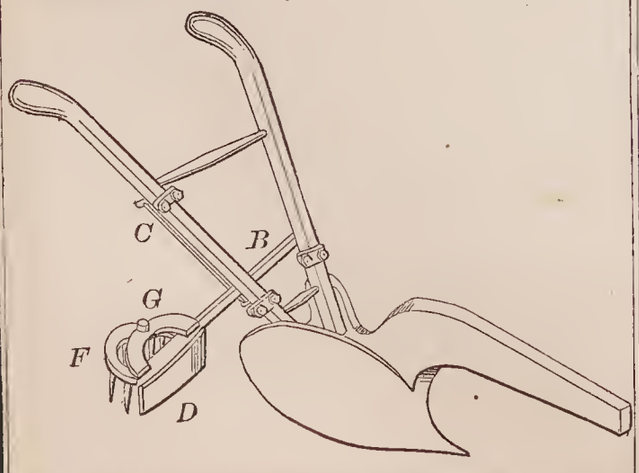
74025—L. Yale, Jr.—*Vise*



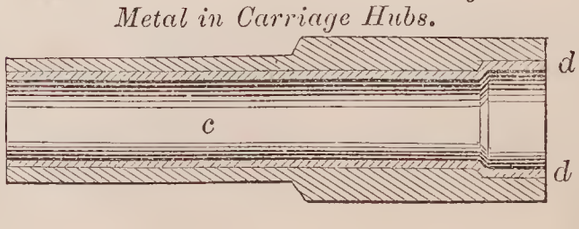
74028—J. U. Adams—*Boiler Tube Ferrule.*



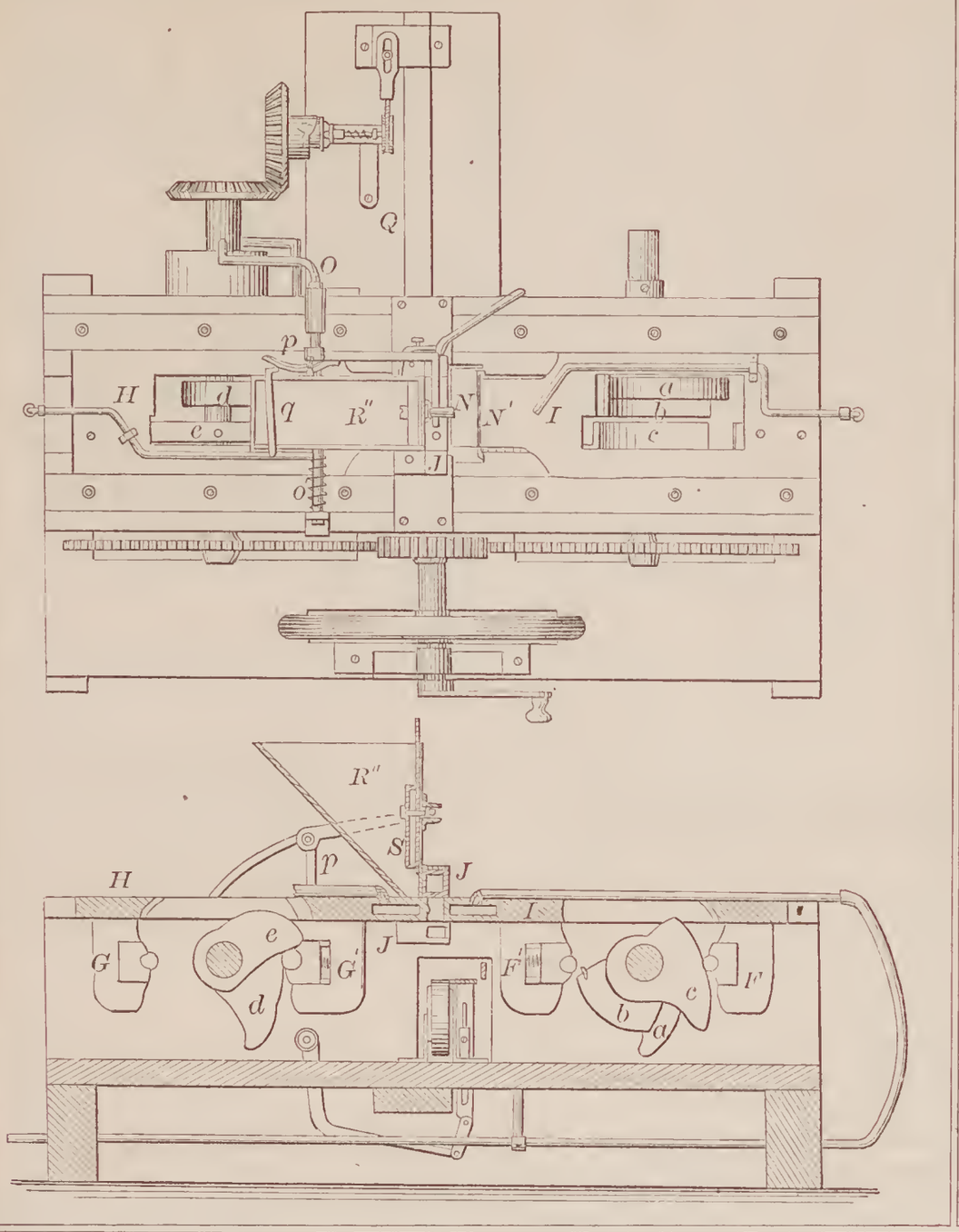
74024—P. Wonsey—*Plow and Harrow.*



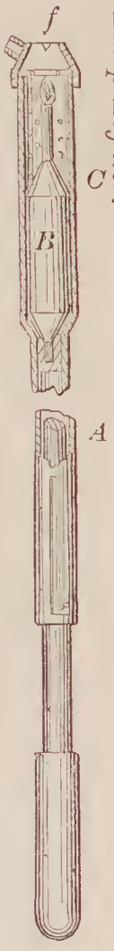
74029—A. H. Ahlborn—*Securing Box Metal in Carriage Hubs.*



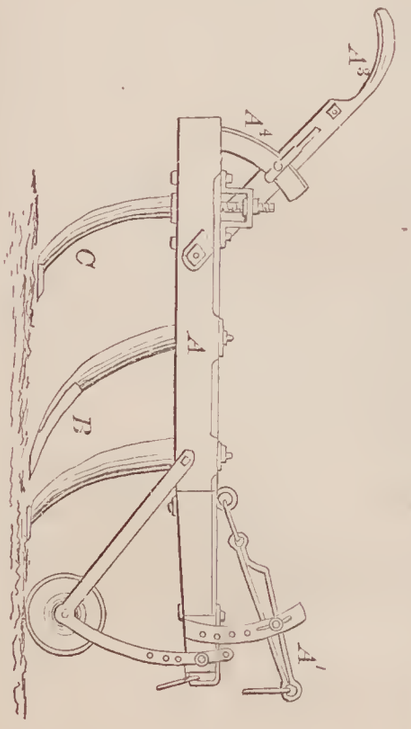
74030—J. Armstrong—*Brick Machine.*



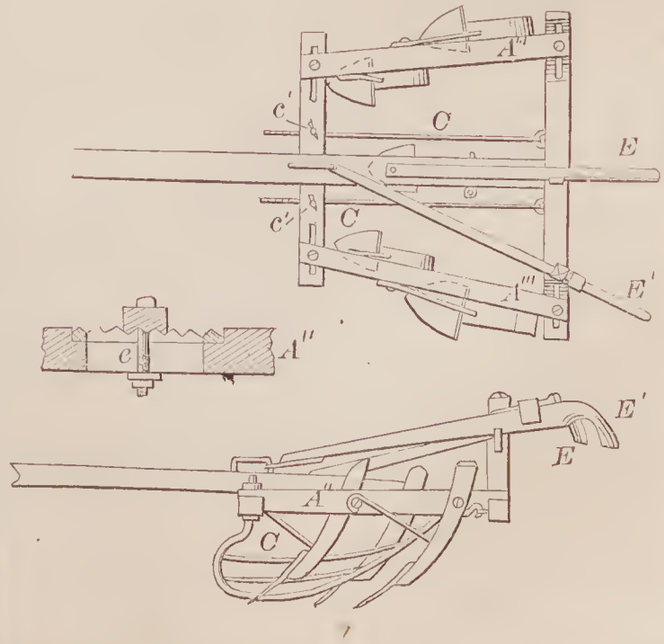
74033—A. Assmann—*Lamp Lighter.*



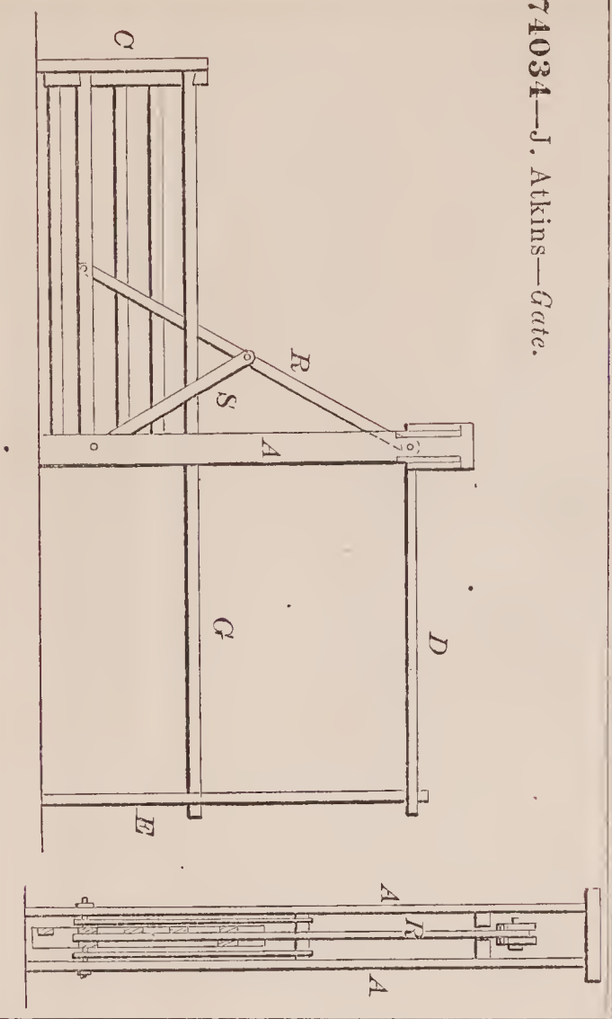
74031—Arnoldt & Grimm—*Cultivator.*



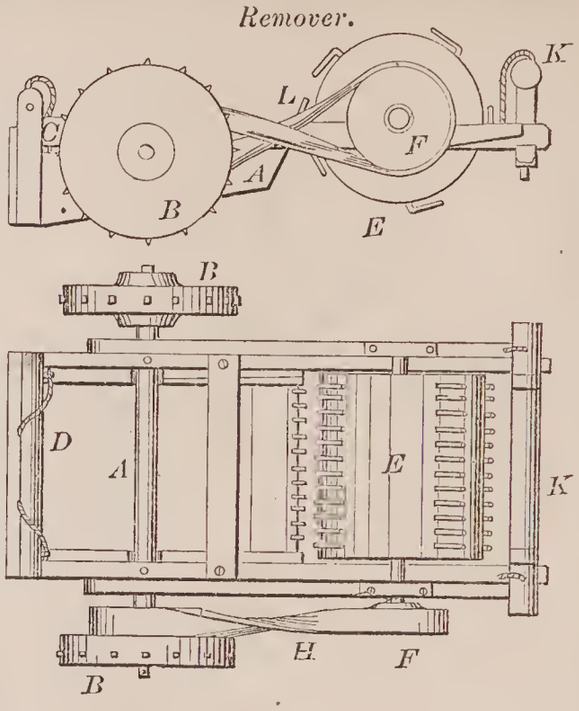
74032—J. B. Arthur—*Corn Plow and Cultivator.*



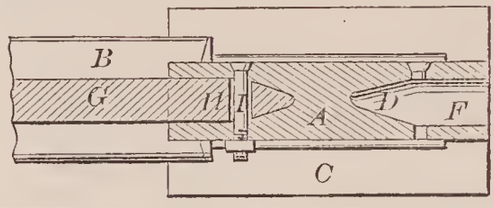
74034—J. Atkins—*Gate.*



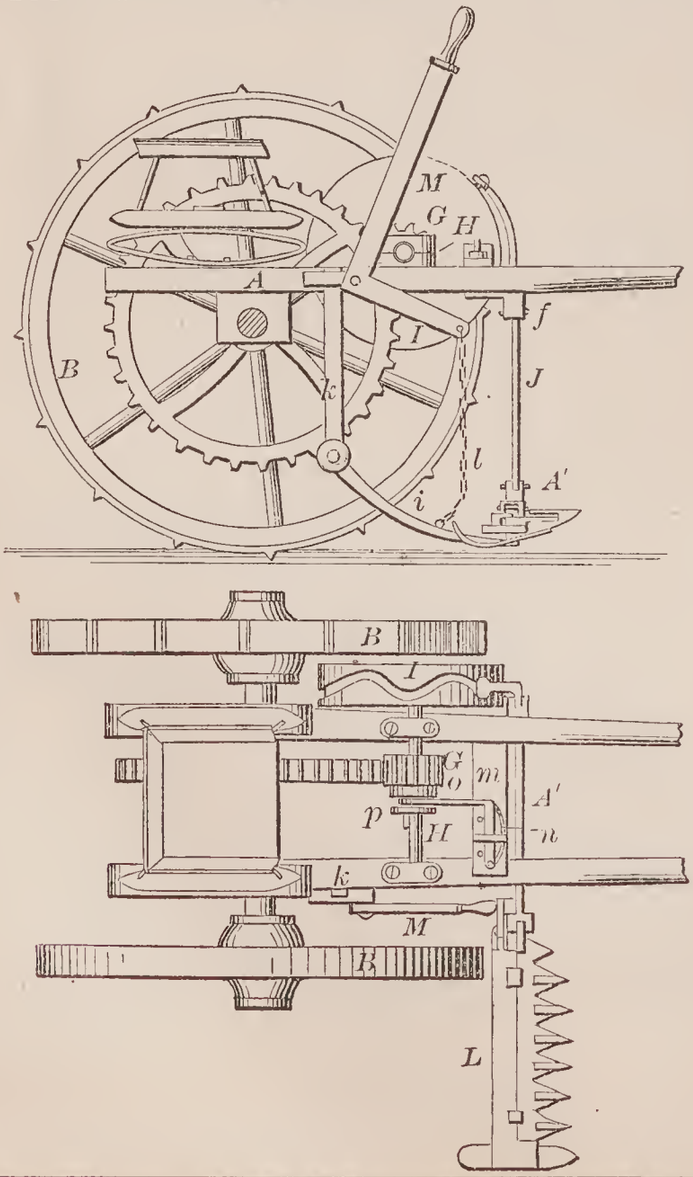
74035—E. Babcock—*Harrow and Stone Remover.*



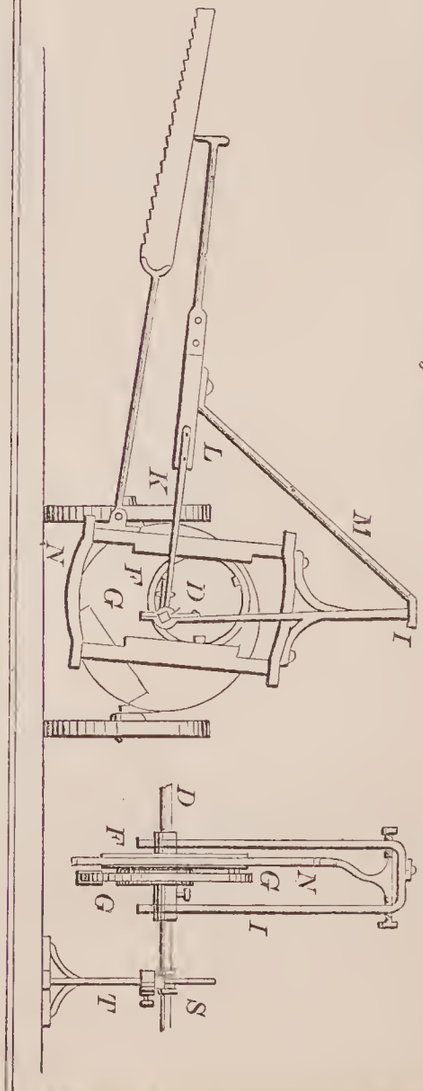
74037—L. Behymer—*Railway Joint.*



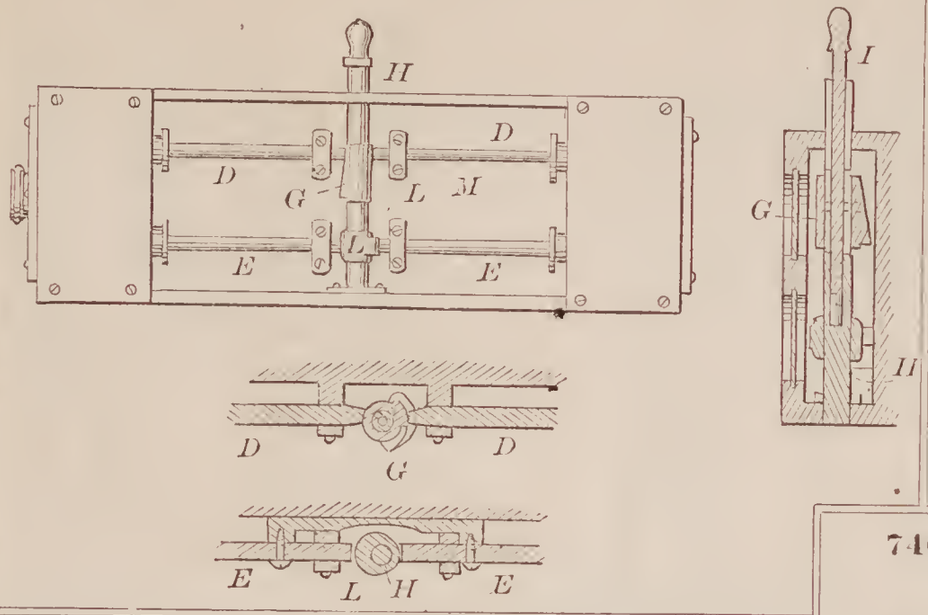
74036—S. O. Bartow—*Harvester.*



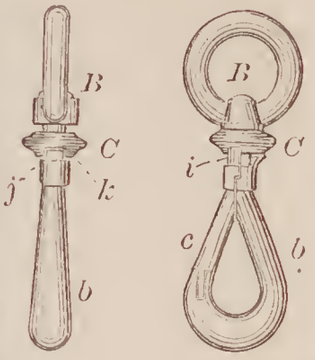
74038—G. W. Bell—*Sawing Machine*



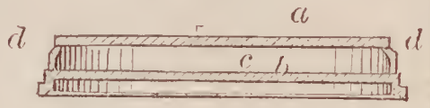
74039—E. H. Bellows—*Steam Engine.*



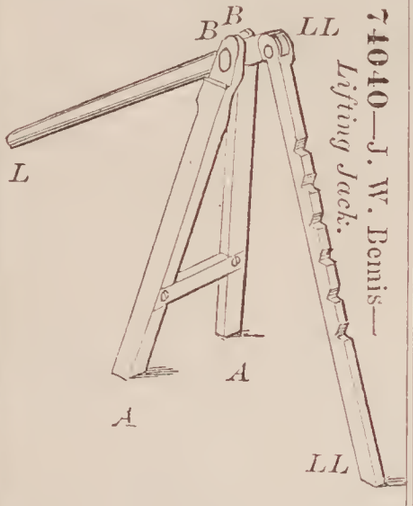
74043—E. F. Brundage—*Safety Hook.*



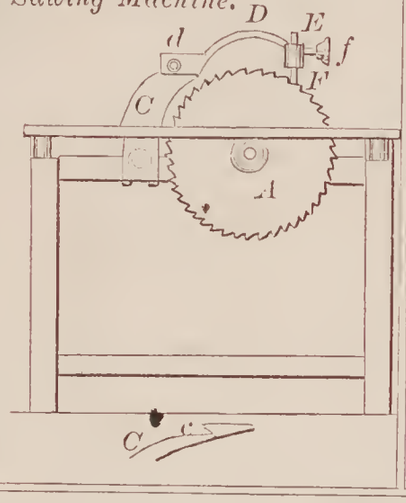
74041—B. D. Bingham—*Watch.*



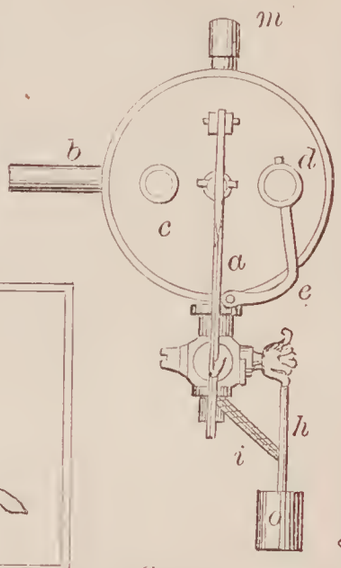
74040—J. W. Bemis—*Lifting Jack.*



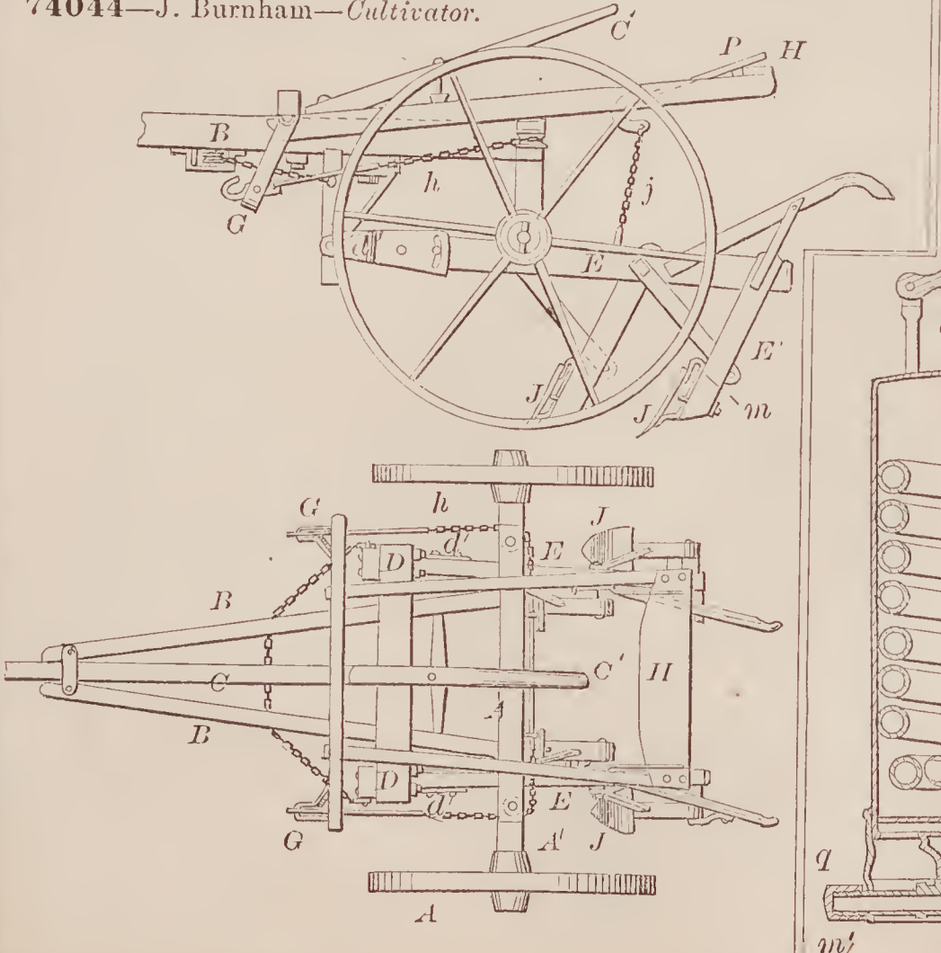
74042—C. D. Blakeslee—*Sawing Machine.*

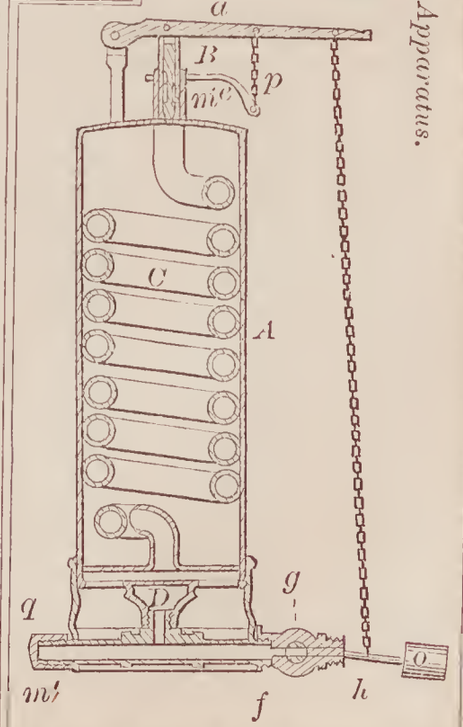


74045—J. Chambers—*Steam Heating Apparatus.*

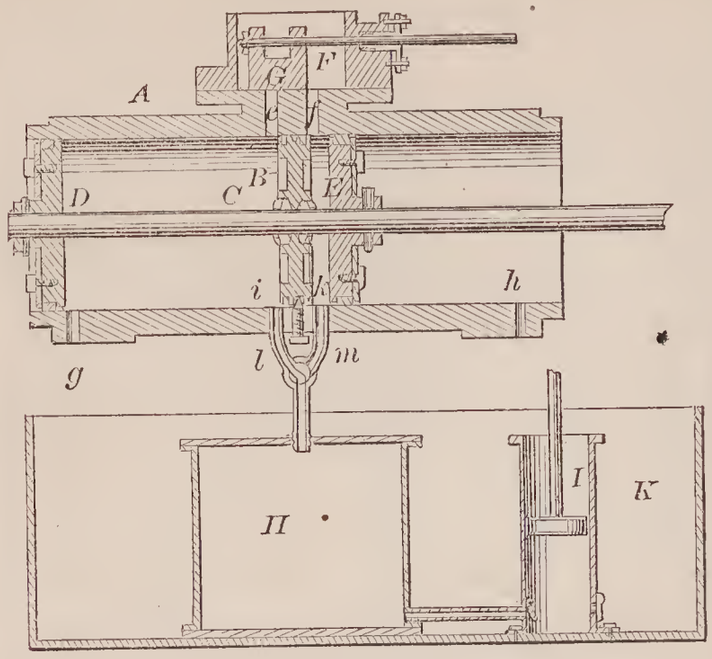


74044—J. Burnham—*Cultivator.*

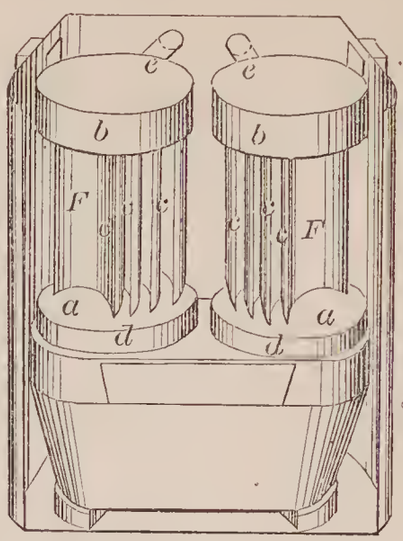




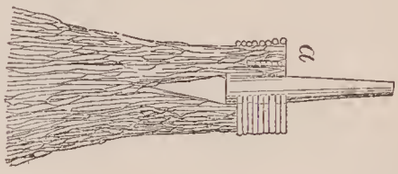
74046—W. T. Chamberlain—*Steam Engine.*



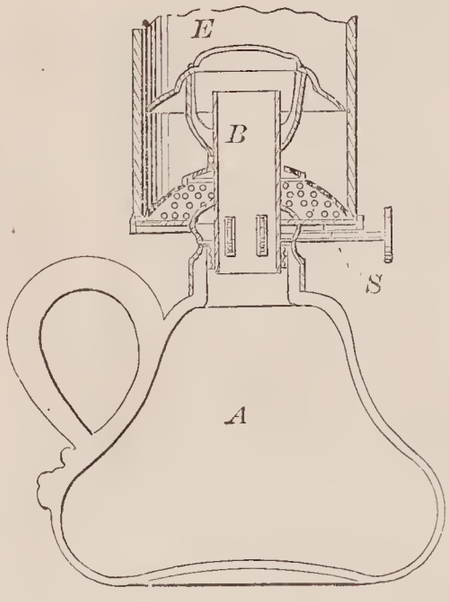
74051—N. E. Cornwall—*Heating Furnace.*



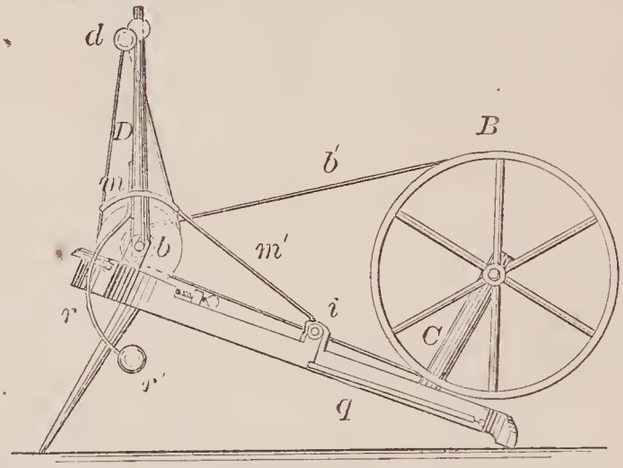
74048—W. H. Clark—*Brush.*



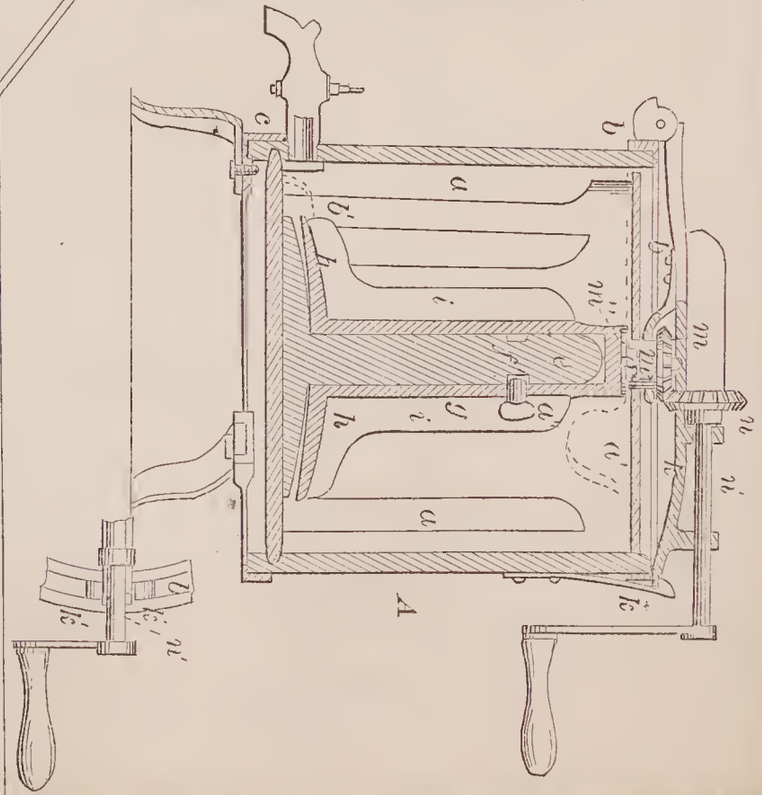
74049—M. H. Collins—*Lamp.*



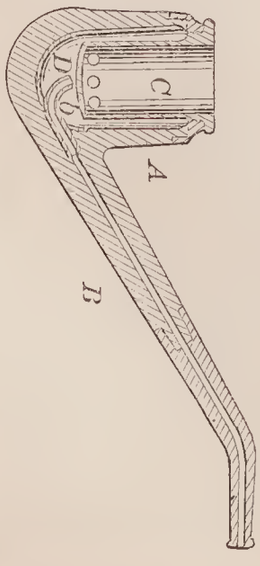
74047—S. W Clark—*Spinning Wheel.*



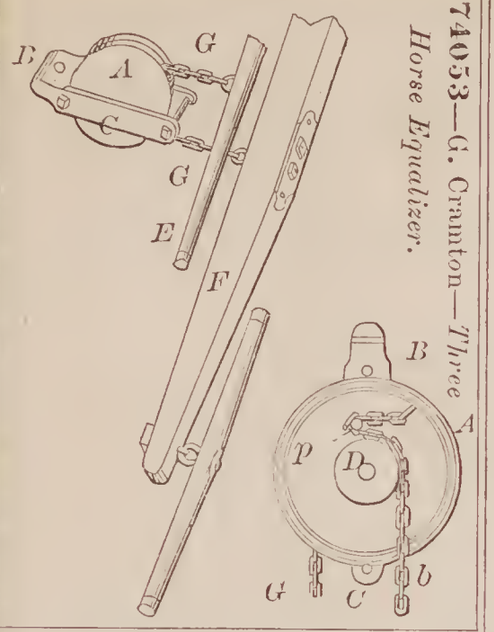
74052—F. H. Covel—*Washing Machine.*



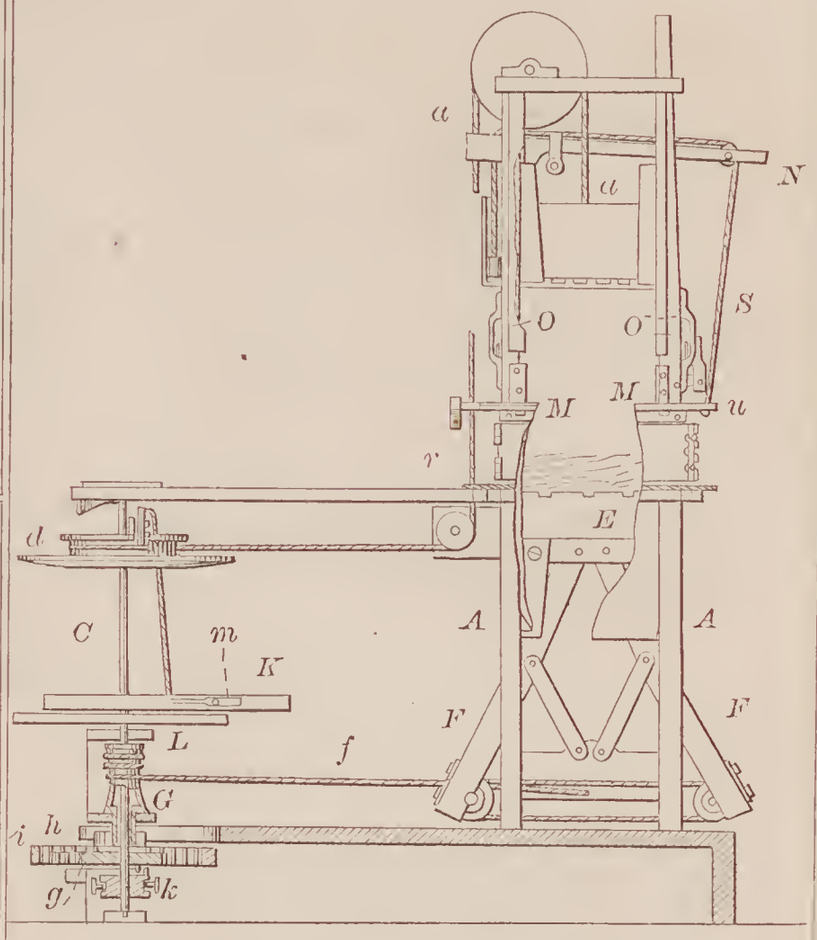
74050—J. Cook—*Tobacco Pipe*



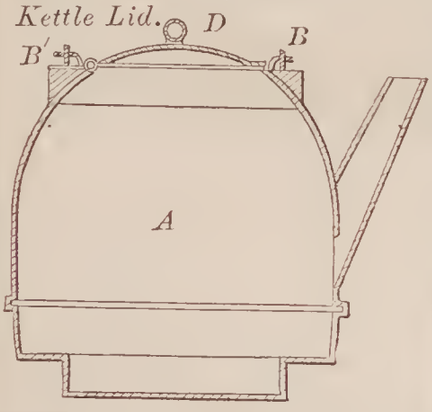
74053—G. Cramton—*Three Horse Equalizer.*



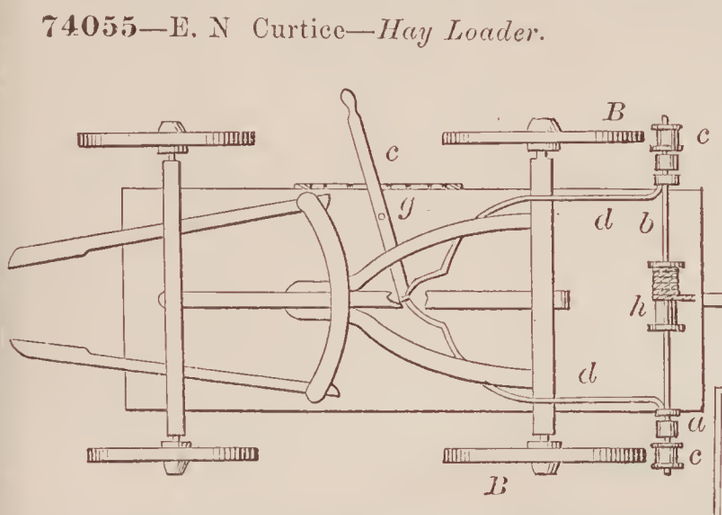
74054—G. W. D. Culp—*Hay Press.*

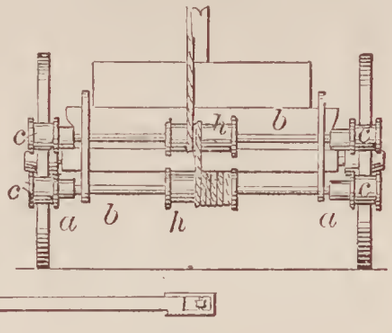


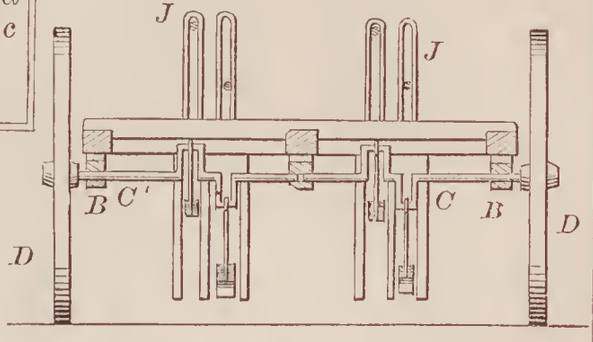
74057—J. De Haven—*Tea Kettle Lid.*



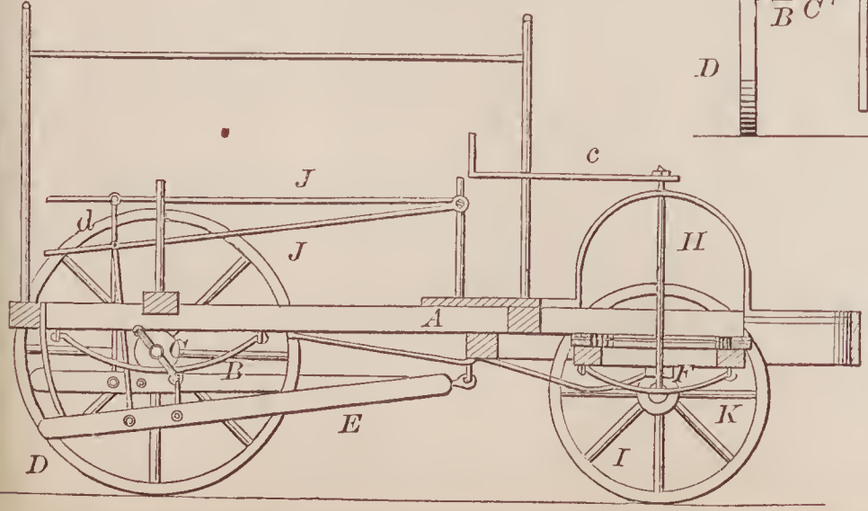
74055—E. N Curtice—*Hay Loader.*



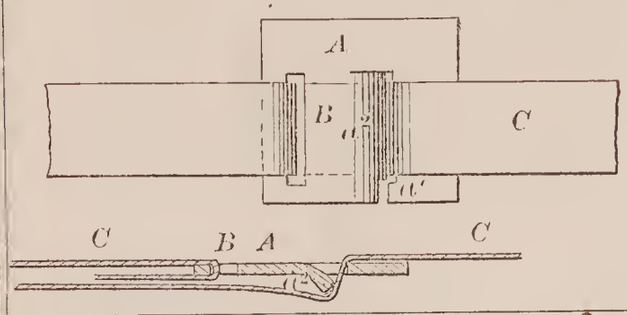




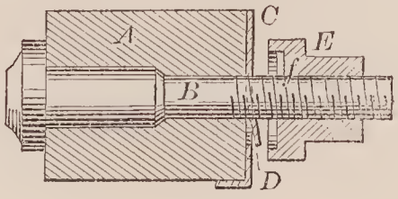
74058—L. Derozier—*Velocipede.*



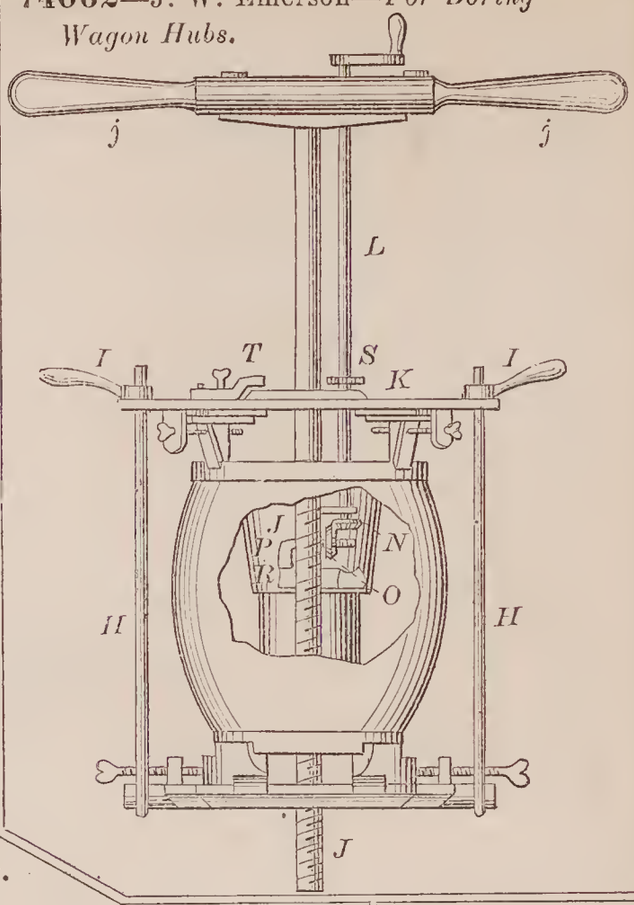
74059—J. B. Dunn—*Cotton Bale Tie.*



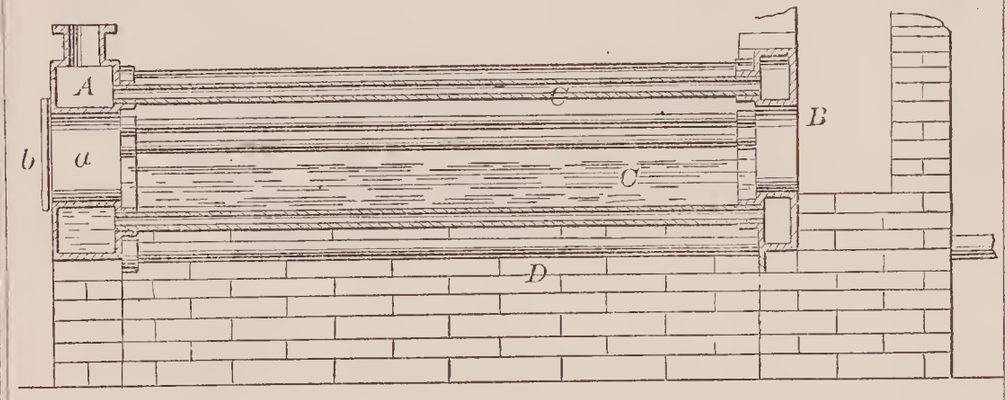
74060—Elliott & Seely—*Washer for Lock Nuts.*



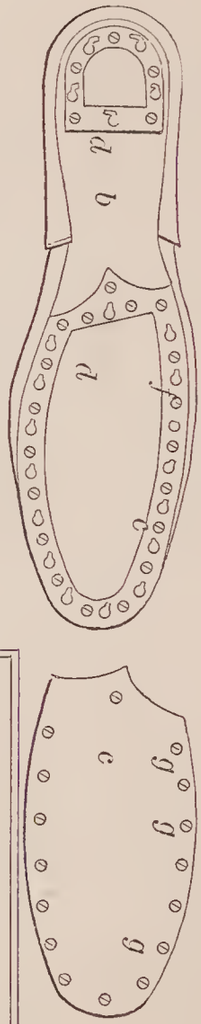
74062—J. W. Emerson—*For Boring Wagon Hubs.*



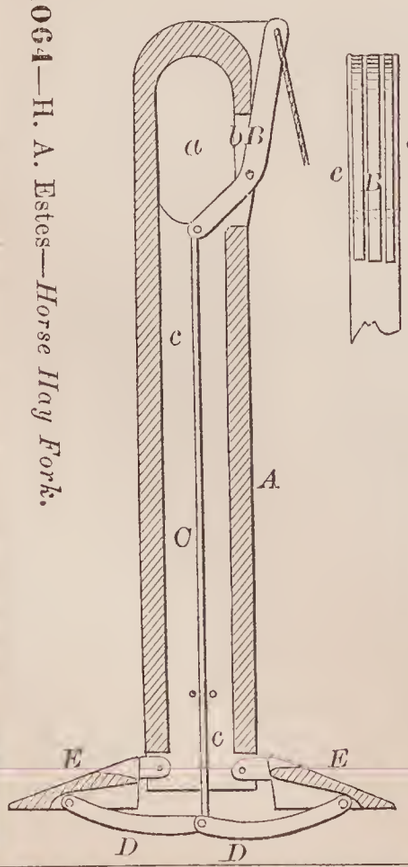
74061—J. Ellis—*Boiler for Heating Water.*



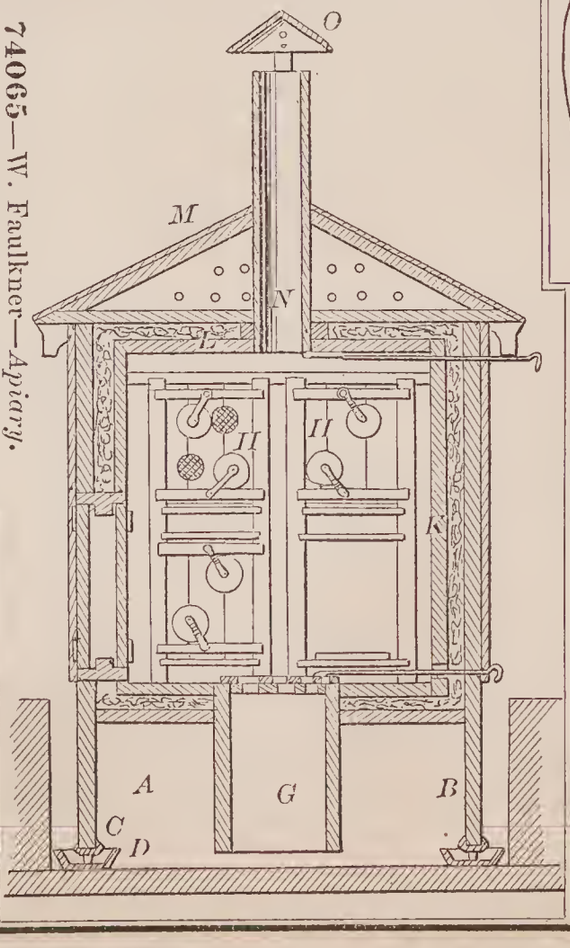
74066—L. A. Favre—*For Soling Shoes.*



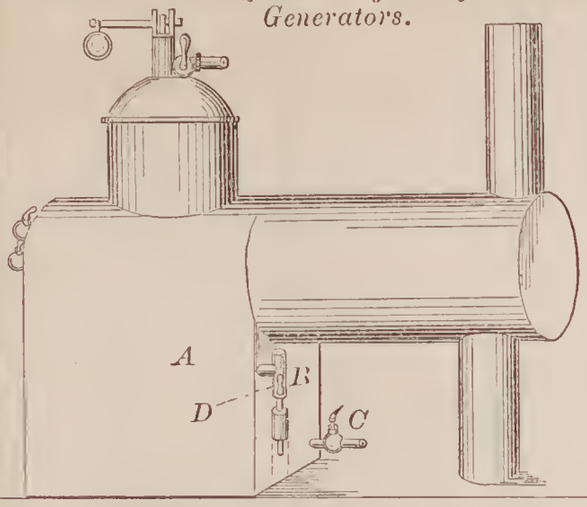
74064—H. A. Estes—*Horse Hay Fork.*



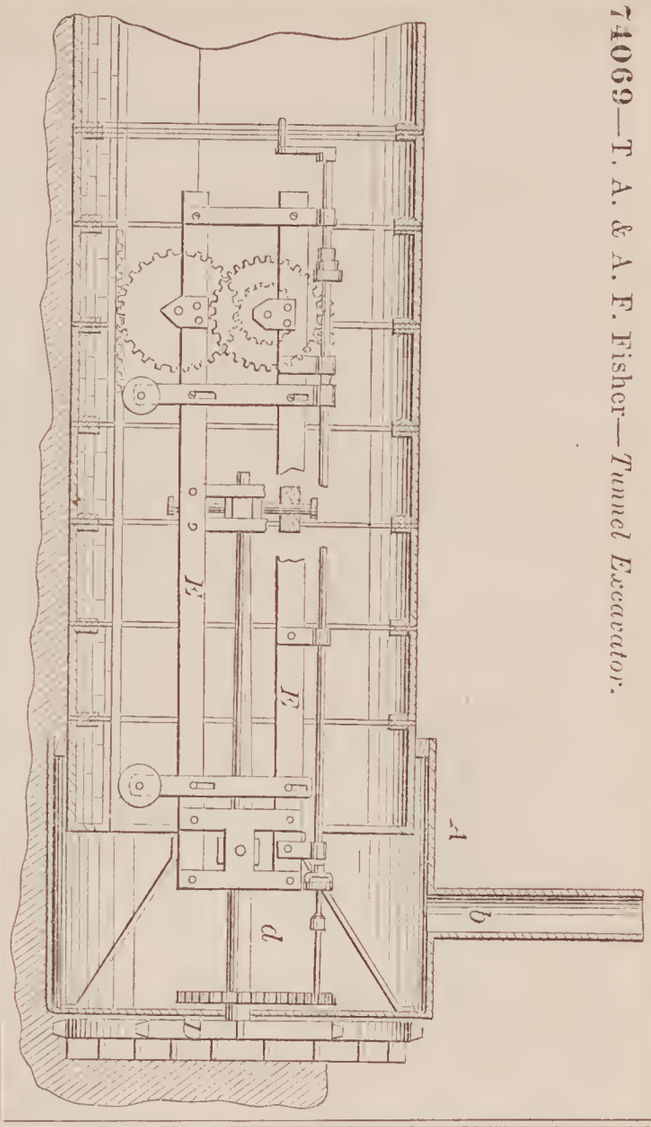
74065—W. Faulkner—*Apiary.*



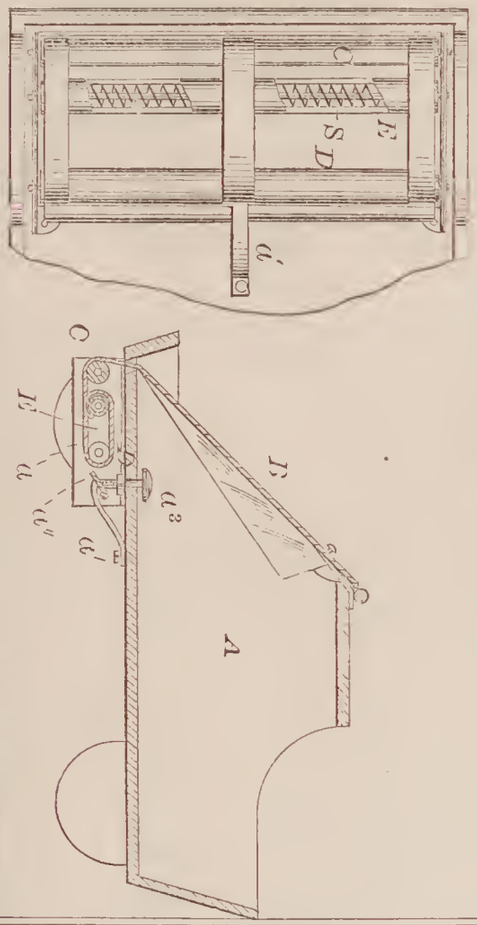
74067—E. Ferguson—*Injector for Steam Generators.*



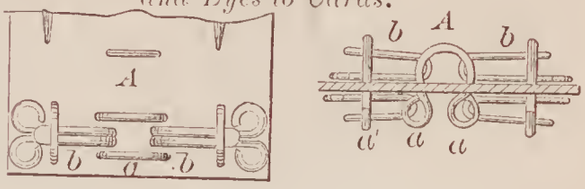
74069—T. A. & A. F. Fisher—*Tunnel Excavator.*



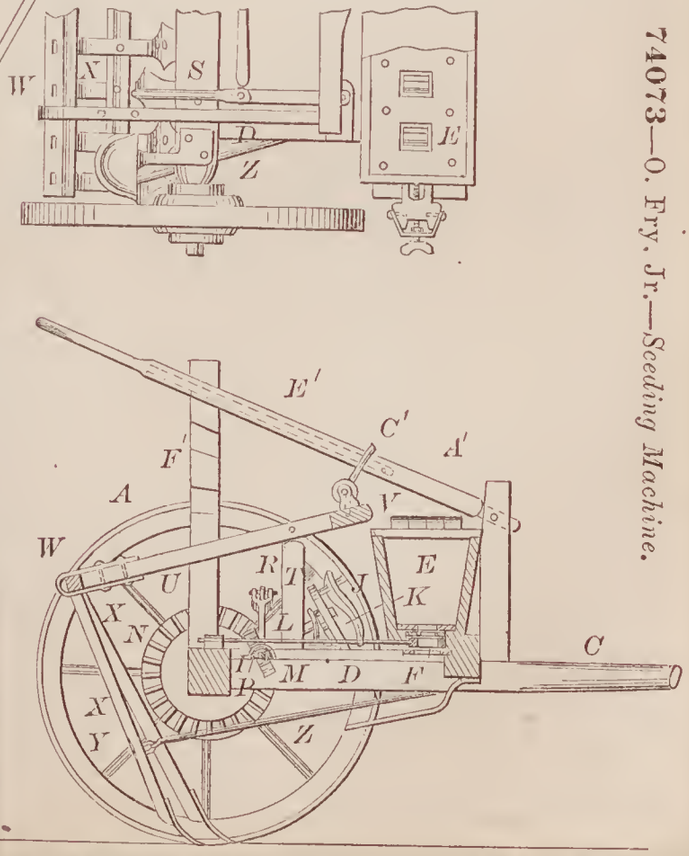
74071—M. M. Follett—*Boot Attachment to Carriages.*



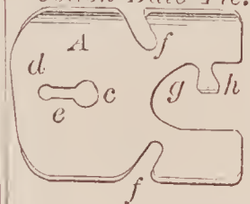
74072—J. D. Franklin—*Securing Hooks and Eyes to Cards.*



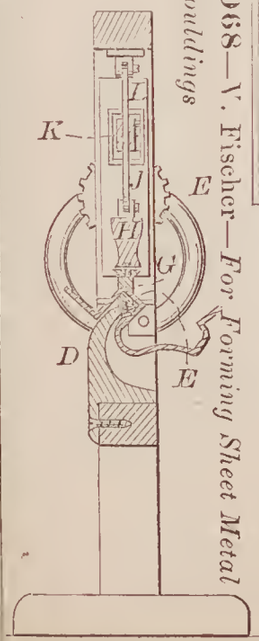
74073—O. Fry, Jr.—*Seeding Machine.*

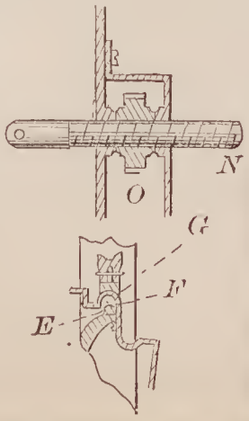


74070—
A. C. Fletcher—
Cotton Bale Tie.

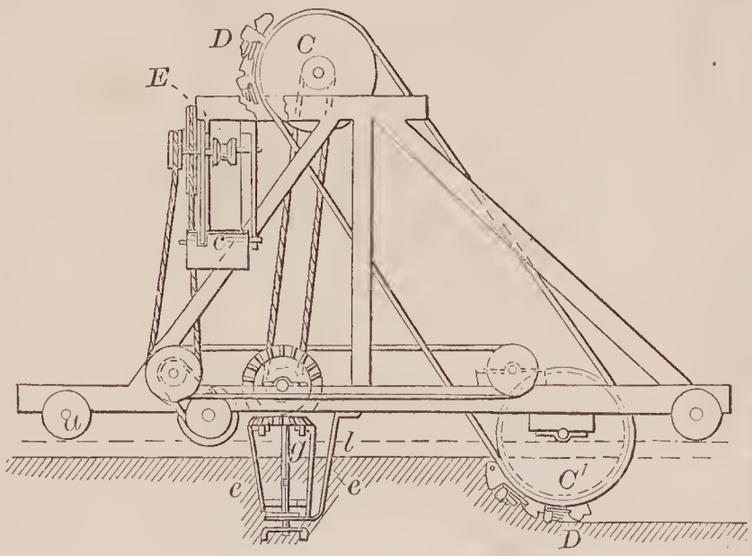


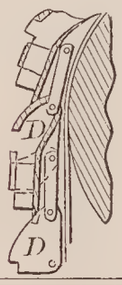
74068—V. Fischer—*For Forming Sheet Metal Mouldings*

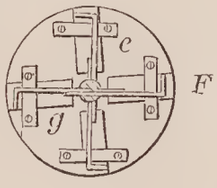




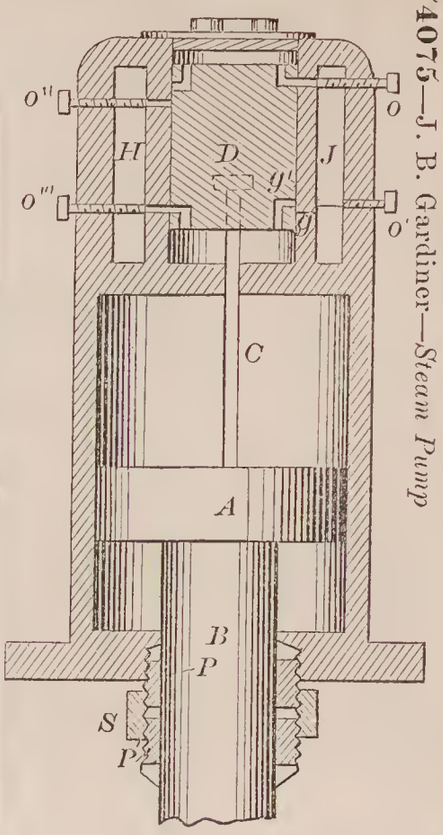
74074—A. A. Fusclier—*Ditching Machine.*



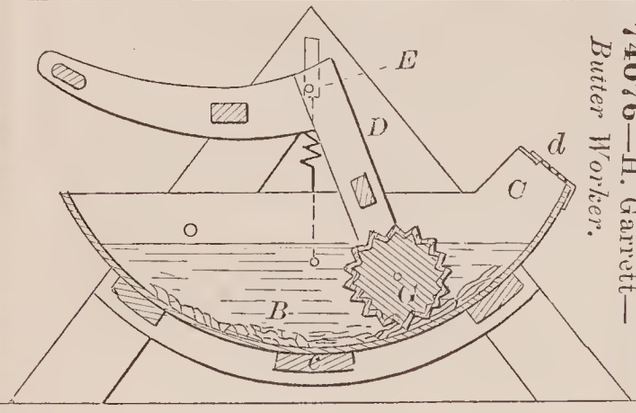




74075—J. B. Gardiner—*Steam Pump*

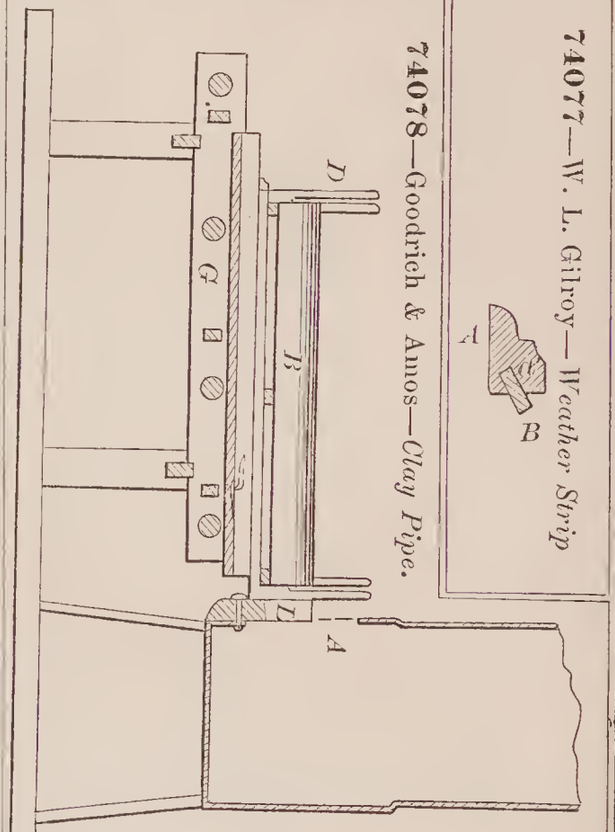


74076—H. Garrett—*Butter Worker.*

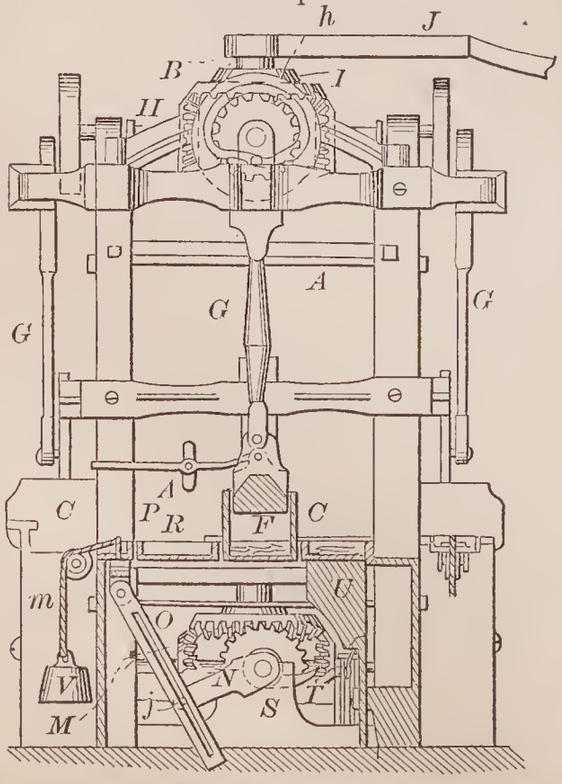


74077—W. L. Gilroy—*Weather Strip*

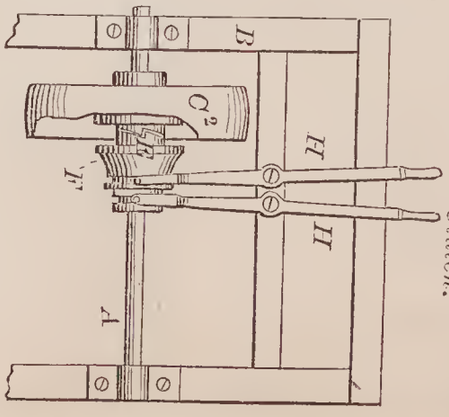
74078—Goodrich & Amos—*Clay Pipe.*



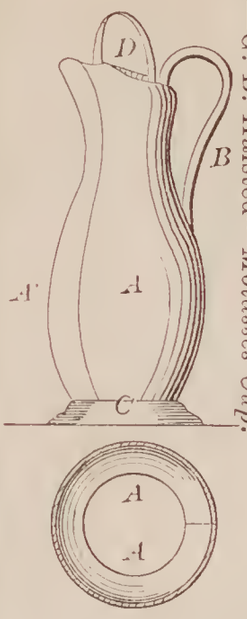
74079—Green & Philiips—*Brick Machine.*



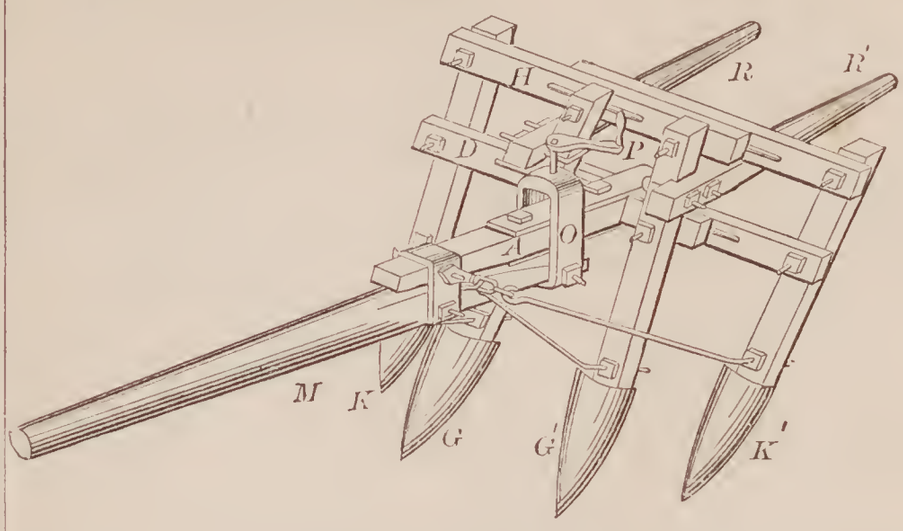
74080—A. W. Hall—*Friction Clutch.*



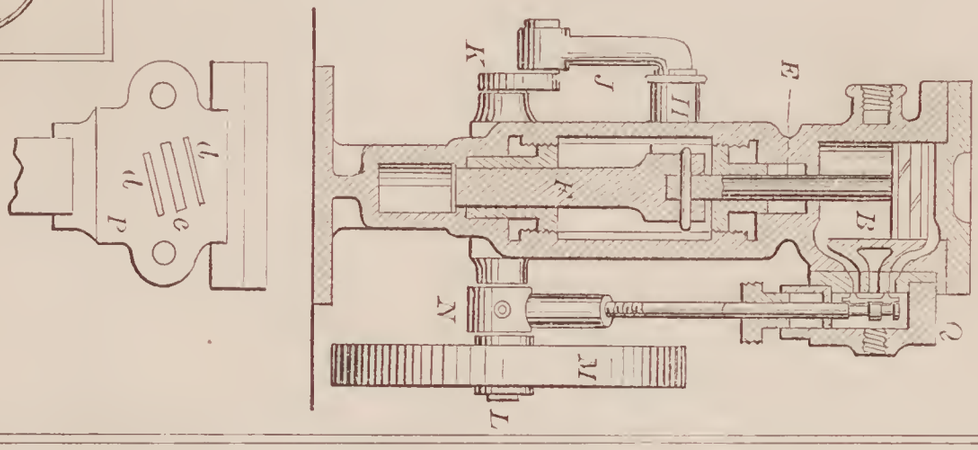
74081—G. B. Halsted—*Molasses Cup.*



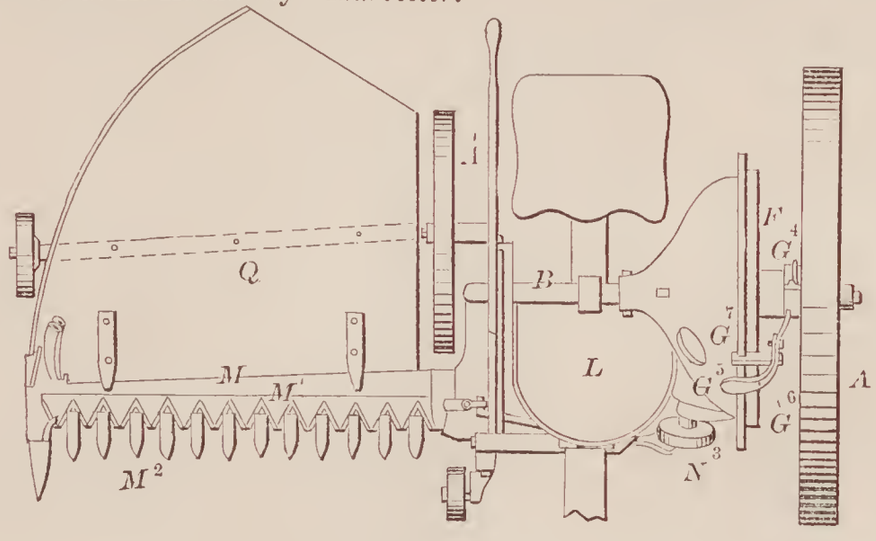
74082—J. R. Hand—*Cultivator.*

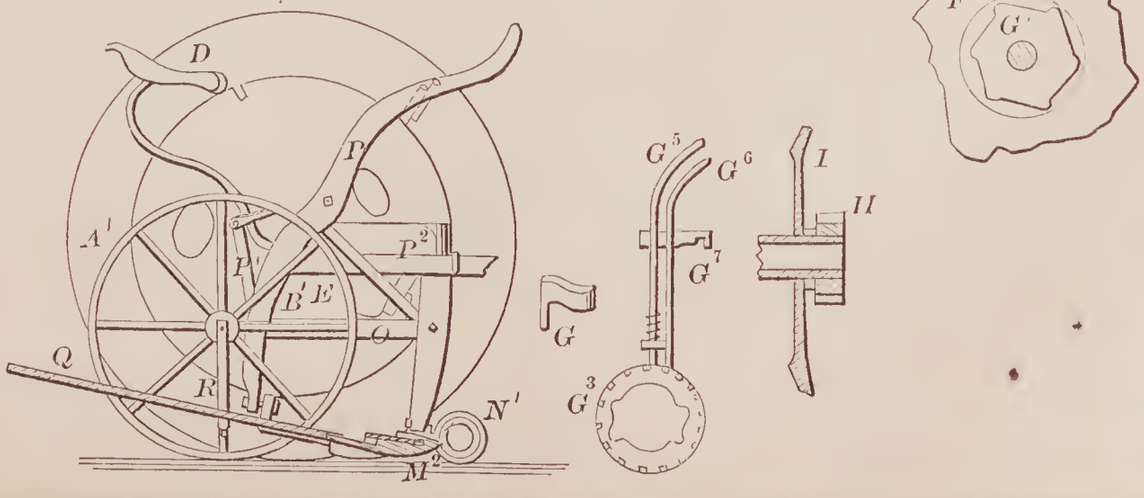


74084—W. Harsen—*Steam Pump.*



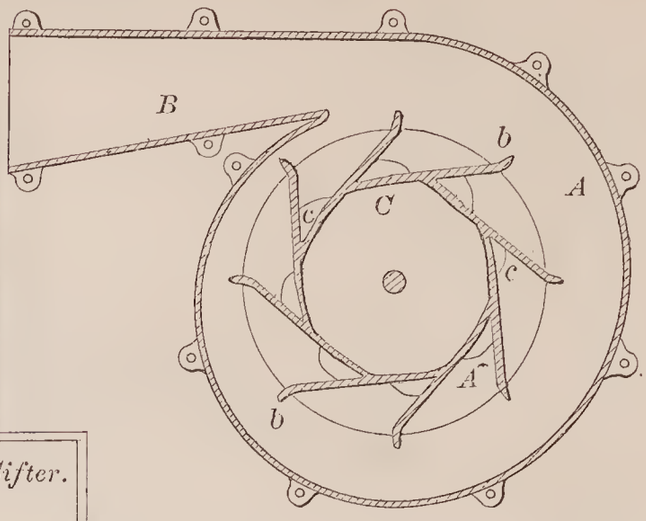
74085—B. G. H. Hathaway—*Harvester.*



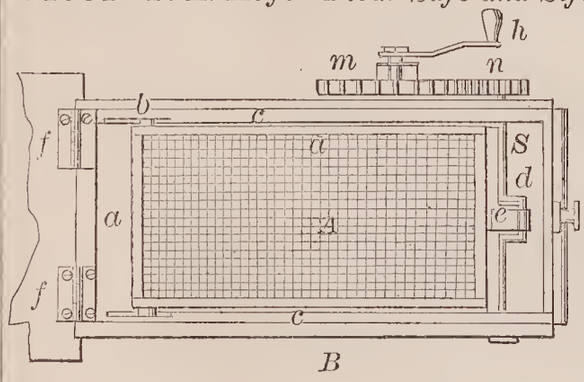


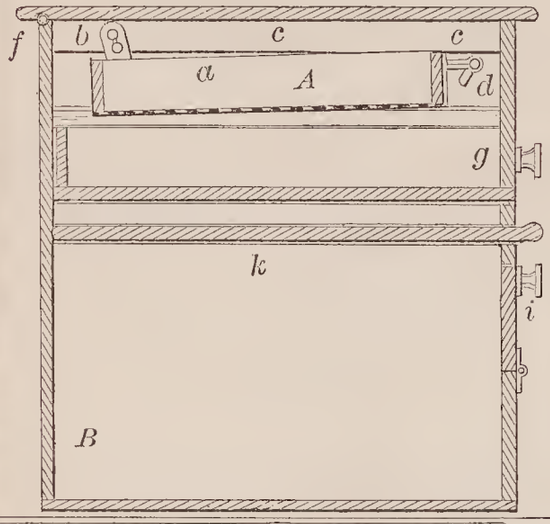
74086—A. S. Haven—*For Leading Cattle.*

74089—W. J. Hoffman—*Water Wheel.*

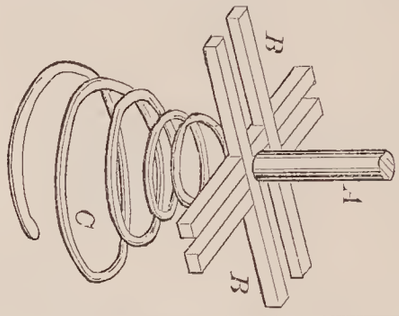


74091—F. A. Hoyt—*Flour Safe and Sifter.*

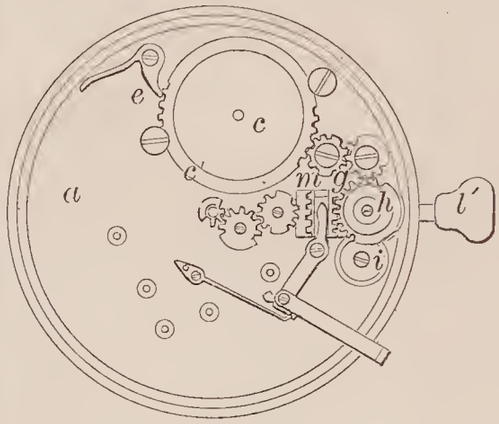


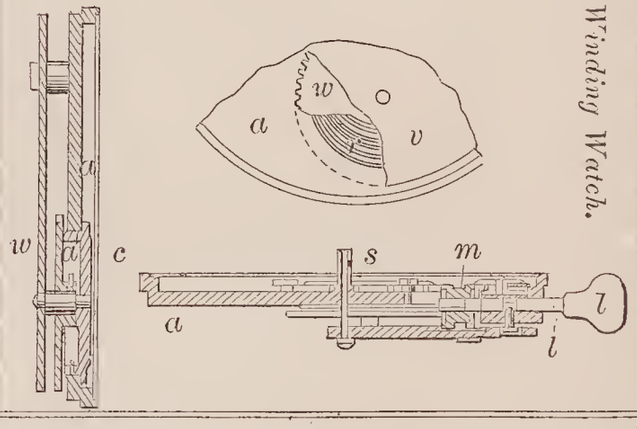


74088—P. Hill—*Churn.*

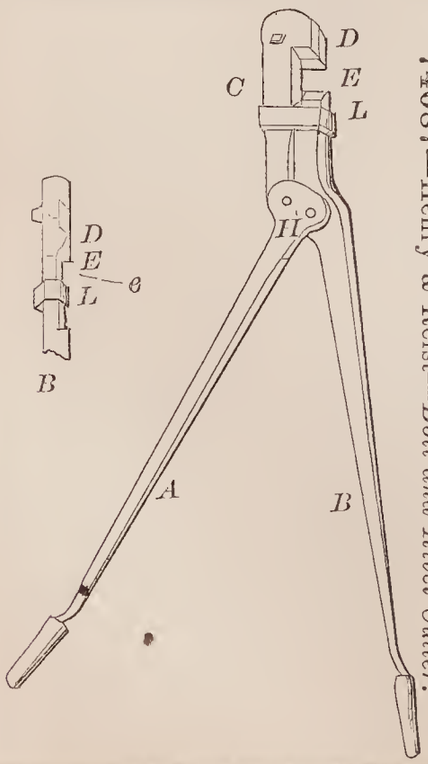


74090—E. Howard—*Stem Winding Watch.*

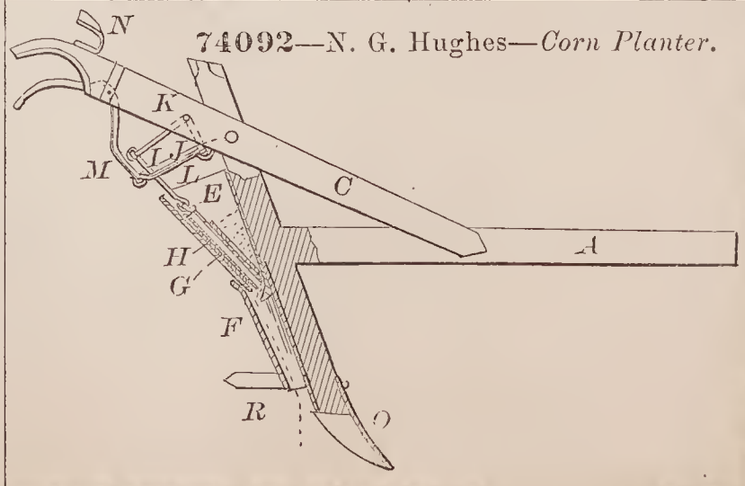




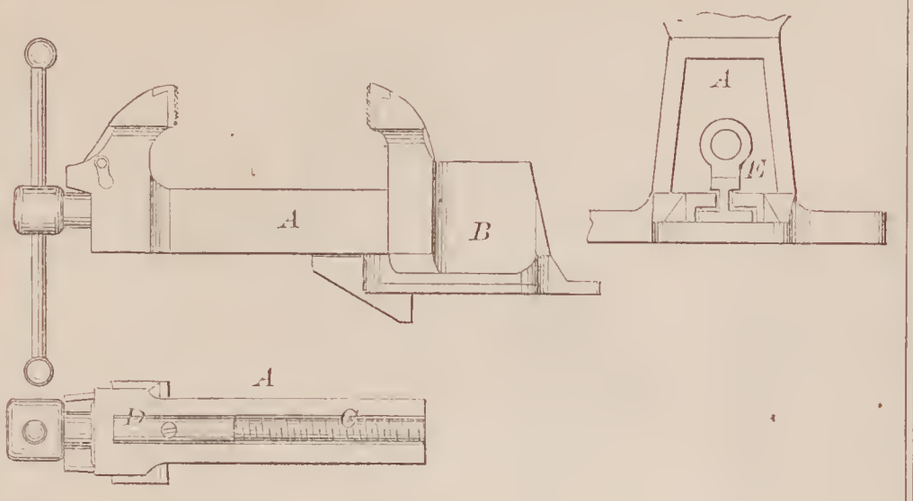
74087—Henry & Reist—*Bolt and Rivet Cutter.*



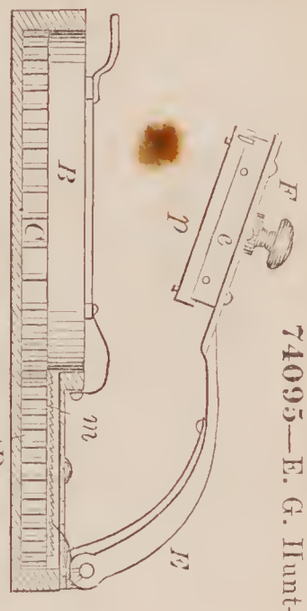
74092—N. G. Hughes—*Corn Planter.*



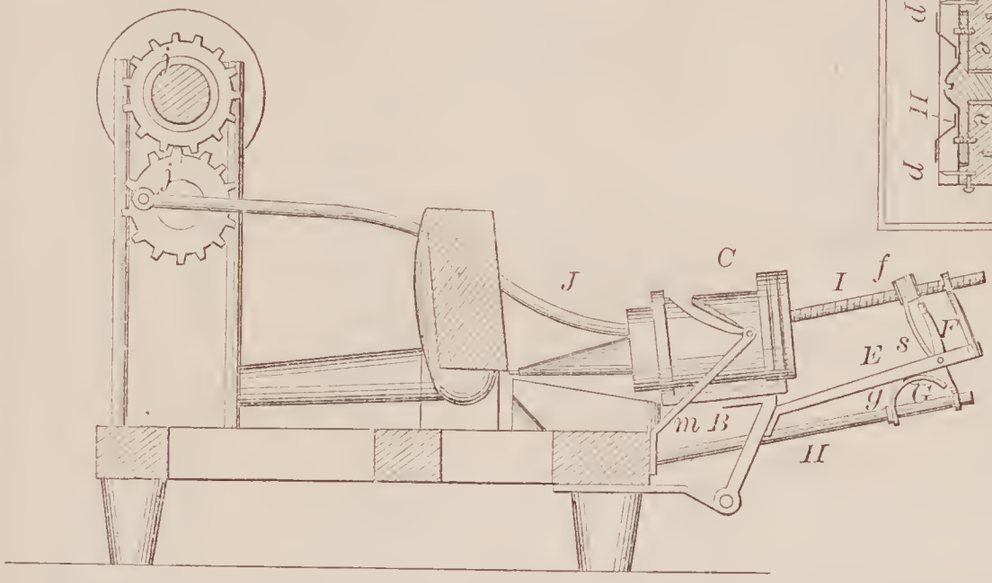
74093—T. H. Humphreys—*Vise.*



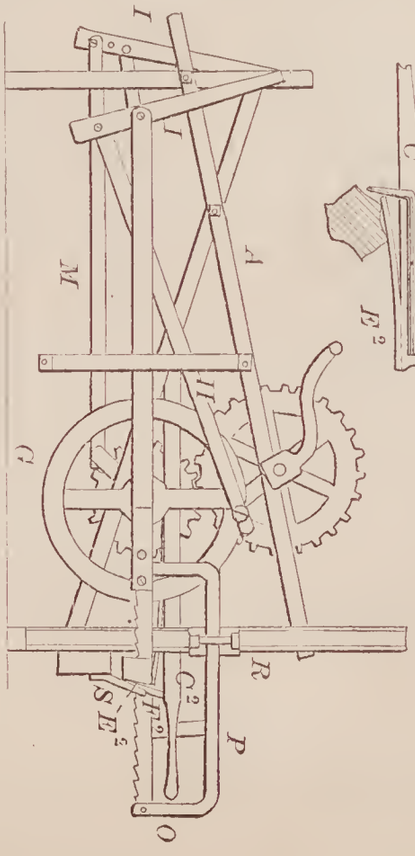
74095—E. G. Hunt—*For Cutting Cards.*



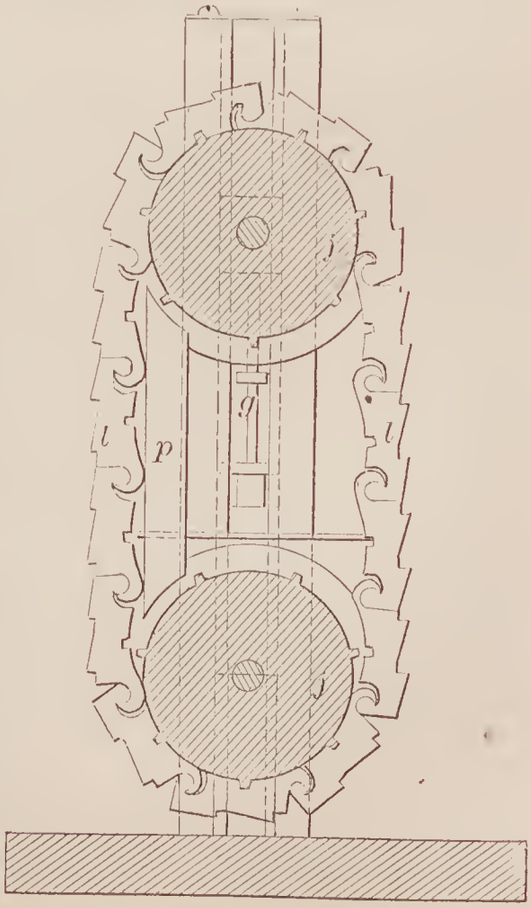
74094—C. D. Hunt—*Nail Plate Feeder.*



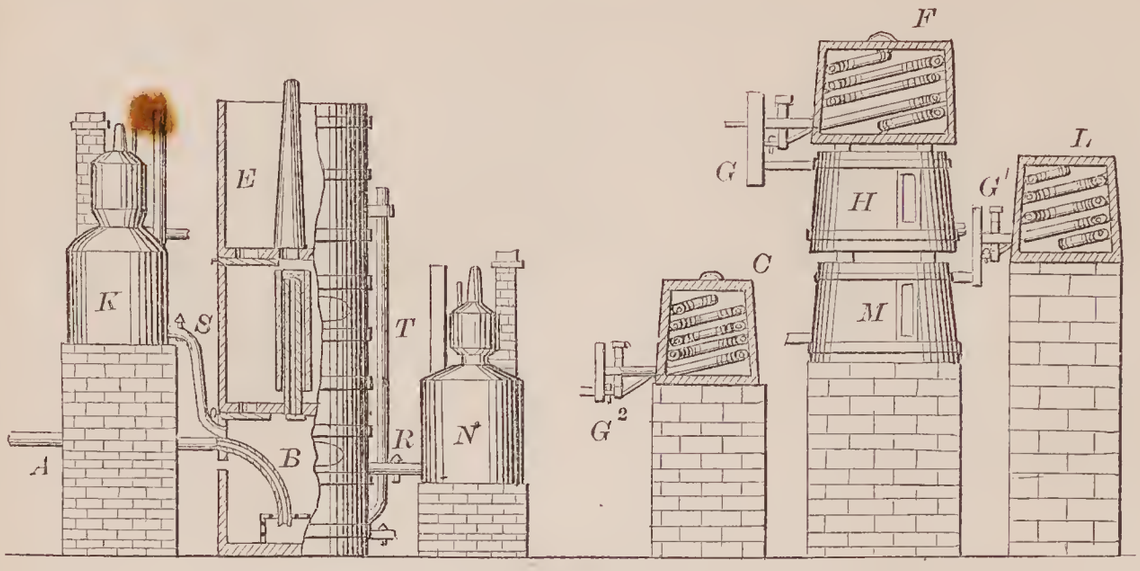
74096—I. B. Jones—*Sawing Machine.*

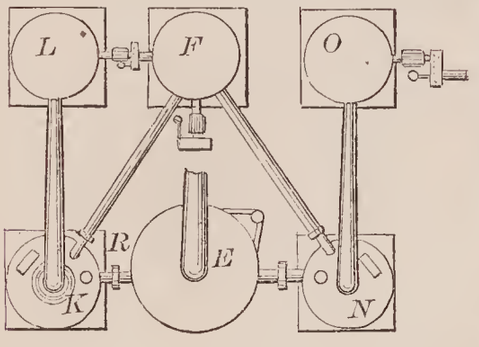


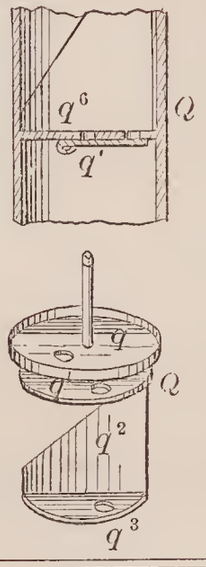
74097—De L. Kennedy—*Chain Saw*



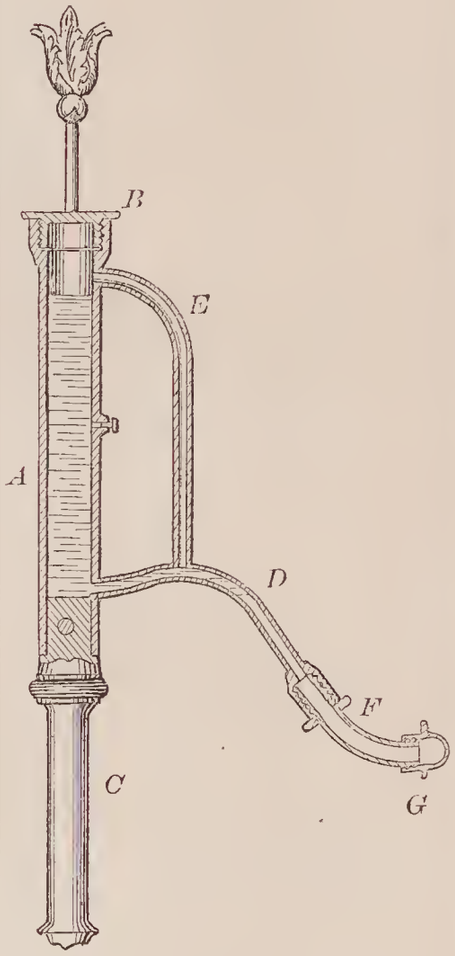
74098—H. H. Kirk—*Distillery.*



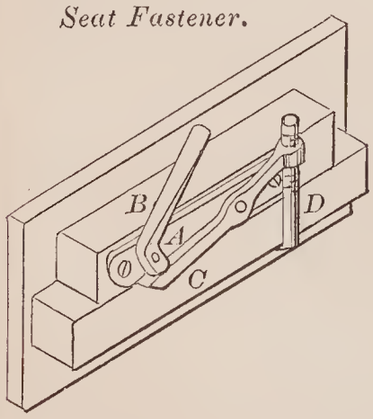




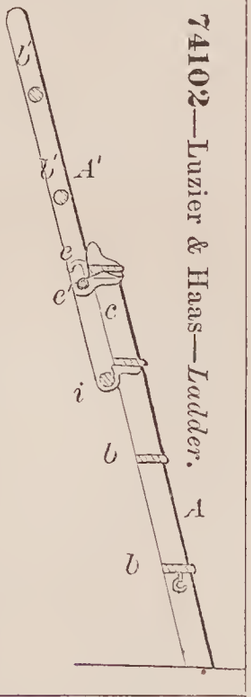
74099—W. A. Lawton—
Gas Torch.



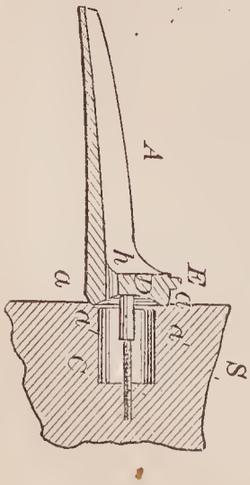
74100—E. C. Lewis—
Seat Fastener.



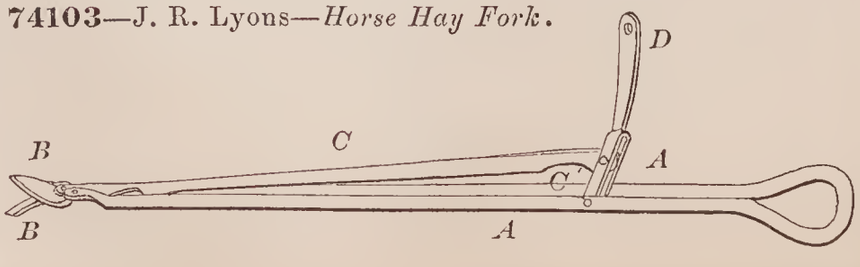
74102—Luzier & Haas—*Ladder.*



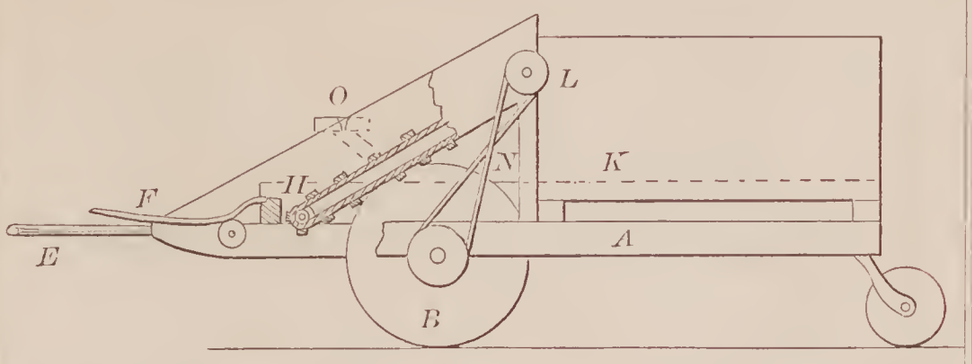
74101—R. F. Livermore—*Sap Spout.*



74103—J. R. Lyons—*Horse Hay Fork.*

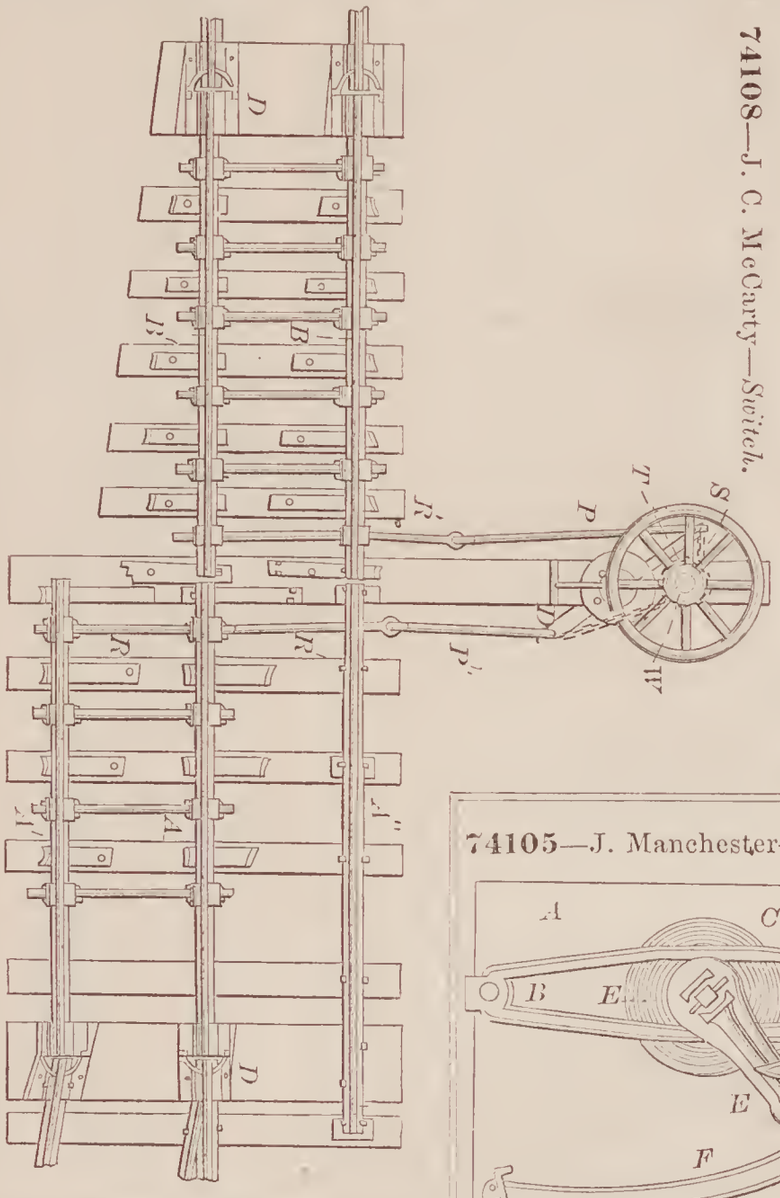


74104—J. Mains—*Corn Harvester.*

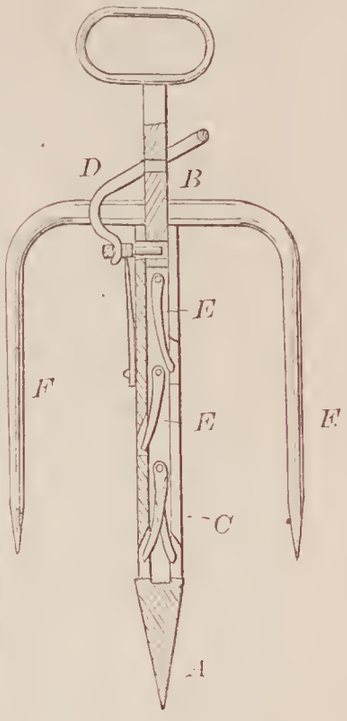


74109—J. K. McDonald—*Eye Glass.*

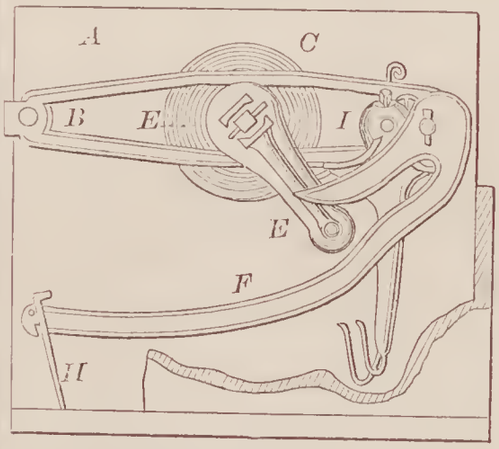
74108—J. C. McCarty—*Switch.*



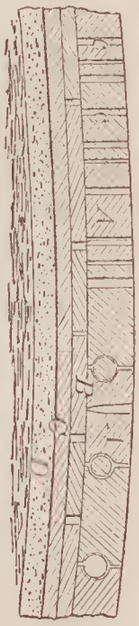
74106—L. S. Mason—*Horse Hay Fork.*



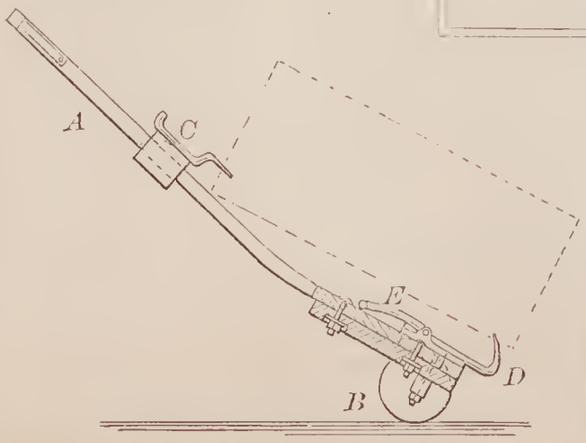
74105—J. Manchester—*Animal Trap.*



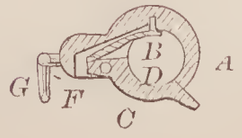
74110—H. G. McGonegal—*Pavement.*



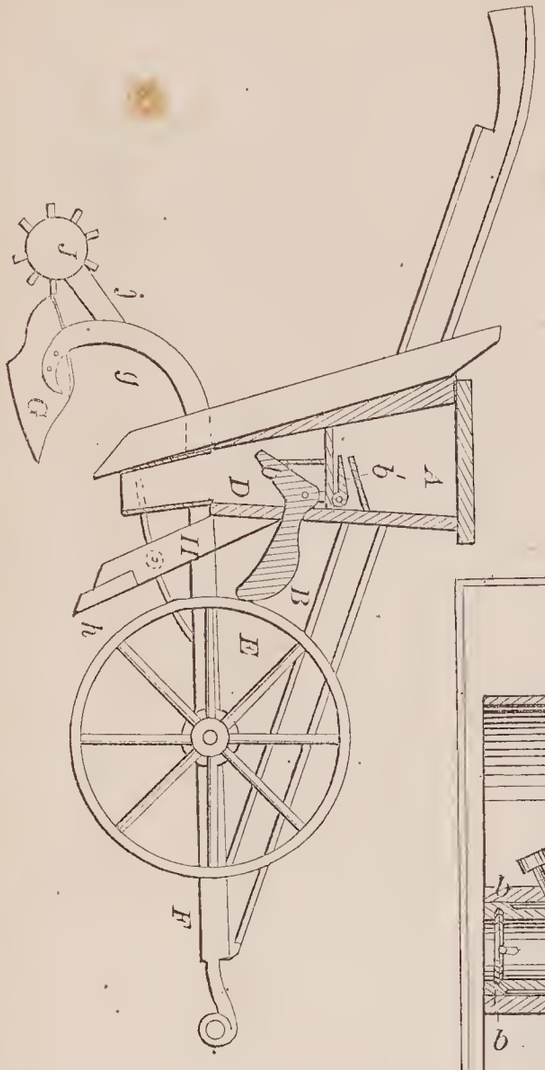
74107—W. May—*Truck.*



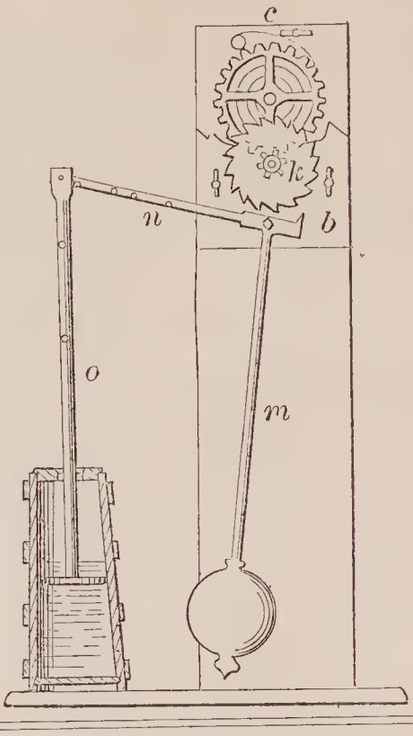
74111—J. McKibben—*Snap Hook.*



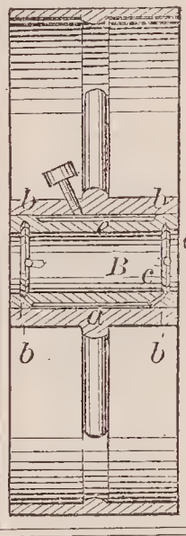
74112—W. McLucas—*Corn Planter.*



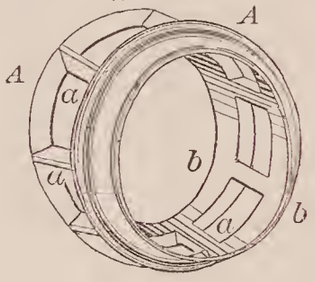
74114—J. H. Monce—*For Working Churns.*



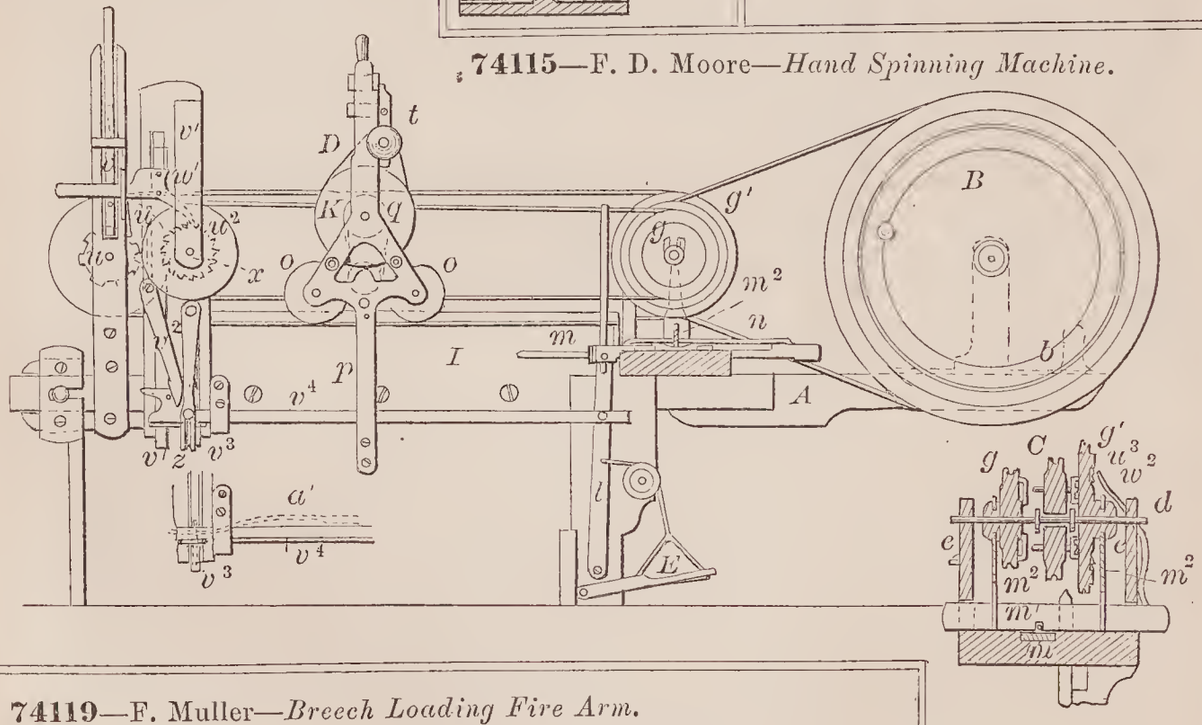
74116—Morris & McCreary—*Lubricator for Loose Pulleys.*



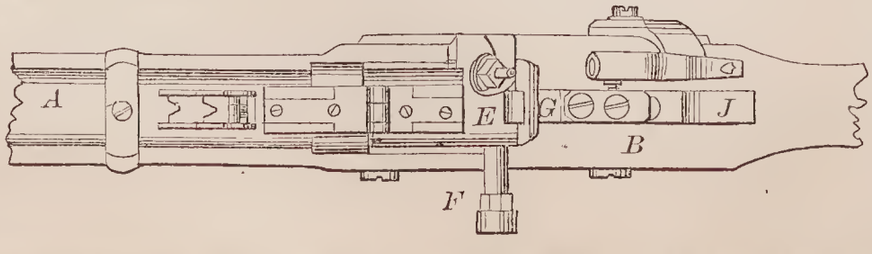
74117—W. F. Morton—*Carriage Wheel.*



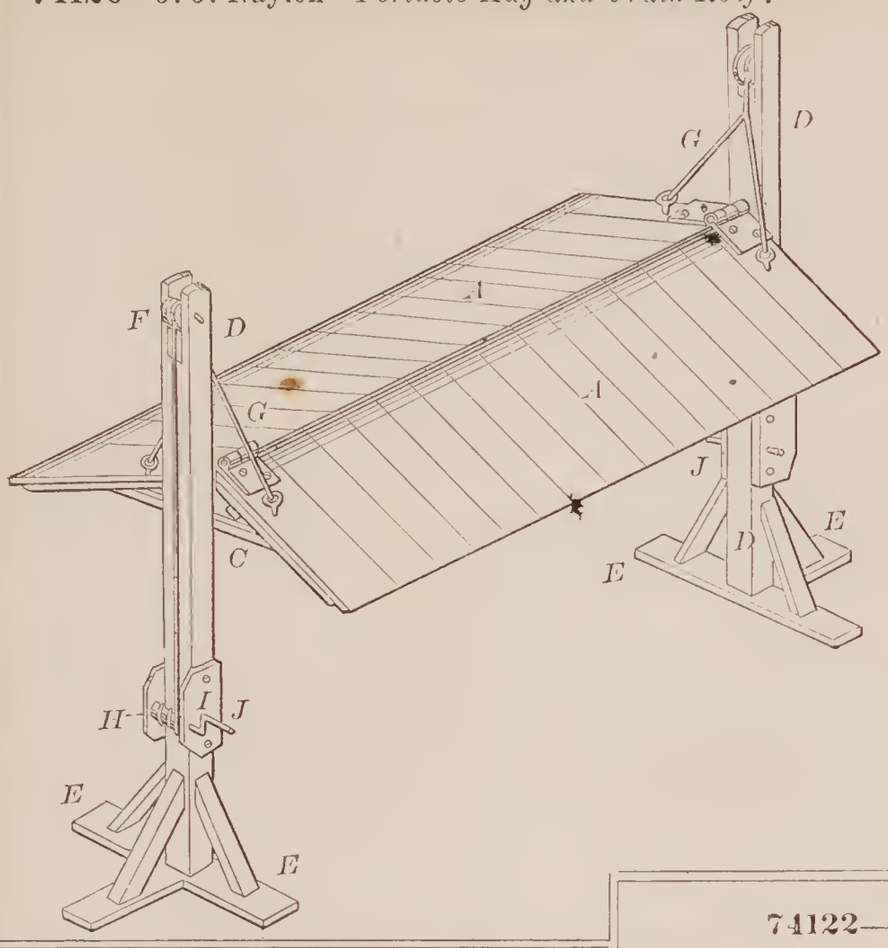
74115—F. D. Moore—*Hand Spinning Machine.*



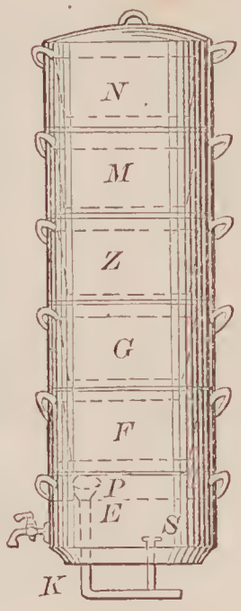
74119—F. Muller—*Breech Loading Fire Arm.*



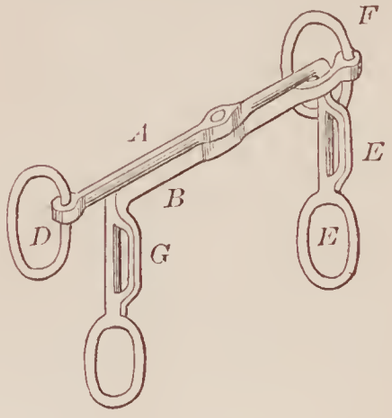
74120—J. J. Naylon—*Portable Hay and Grain Roof.*



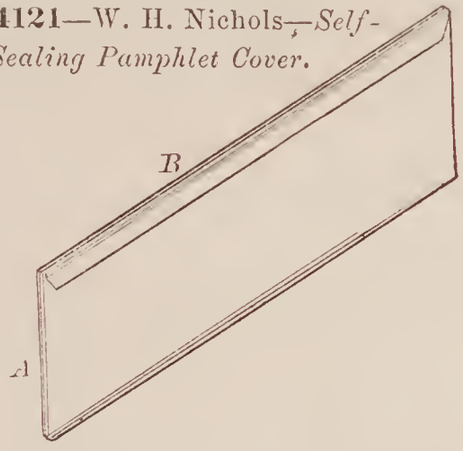
74123—J. W. Patterson—*Culinary Vessel.*



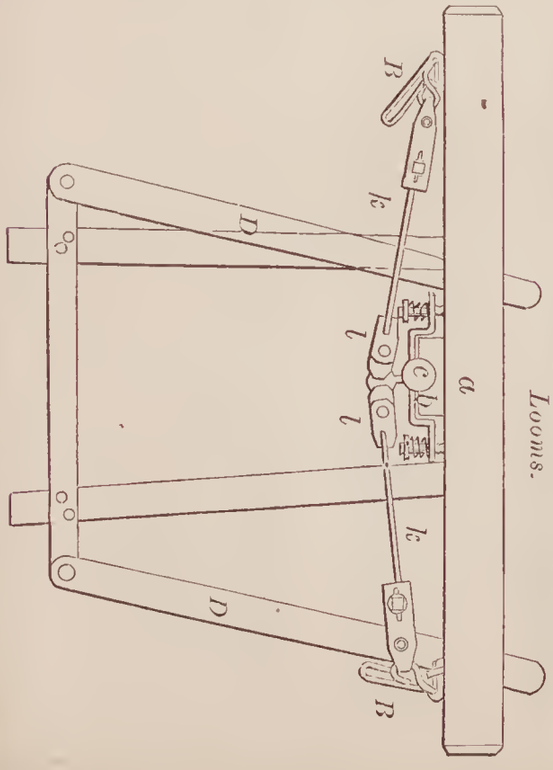
74122—J. K. Norton—*Bridle Bit.*



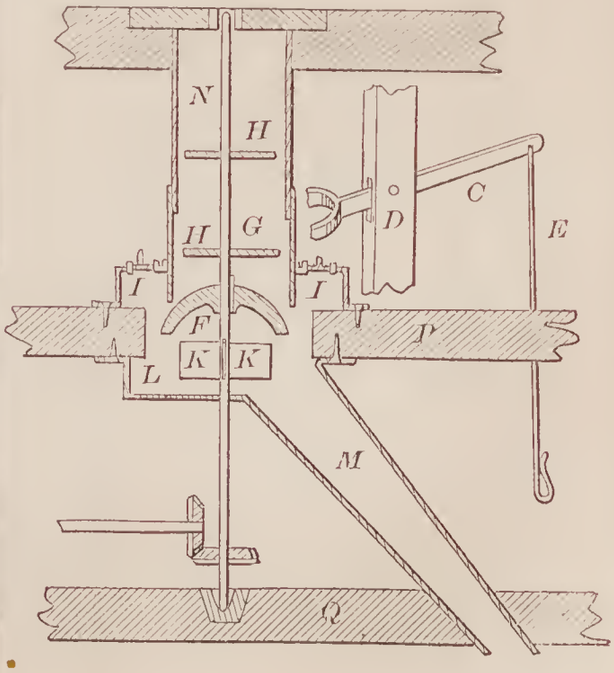
74121—W. H. Nichols—*Self-Sealing Pamphlet Cover.*



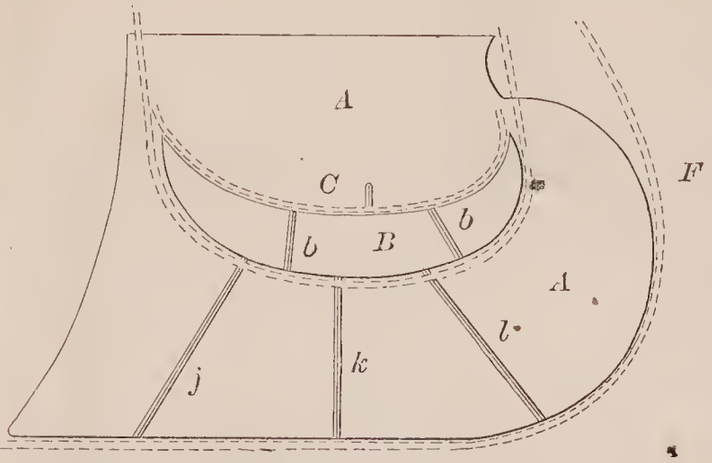
74124—E. & H. C. Phillips—*Picker Stuff Check for Looms.*



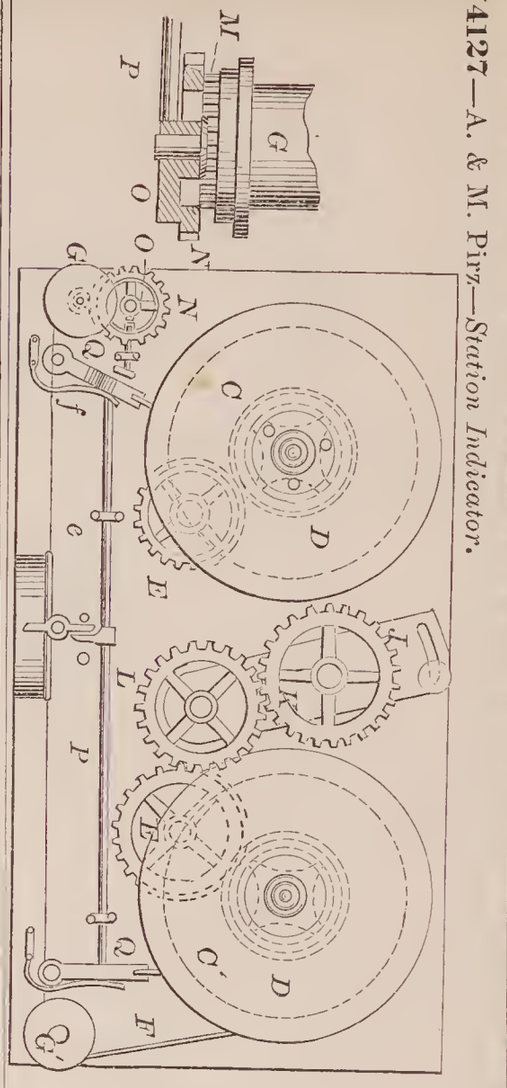
74125—W Pickens—*Bolt Feeder and Cooler.*



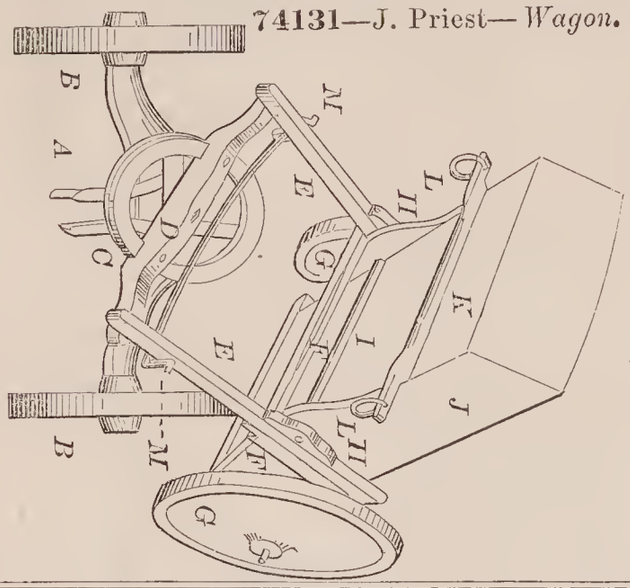
74126—D. Pierce—*Pattern for Drafting Sleigh Bodies.*



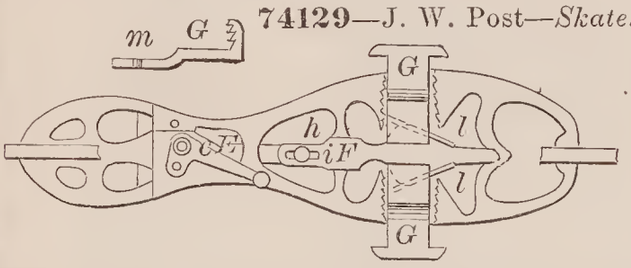
74127—A. & M. Pirz—*Station Indicator.*



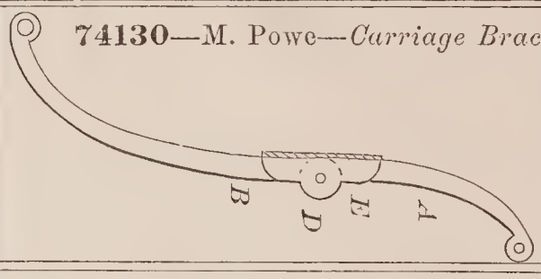
74131—J. Priest—*Wagon.*



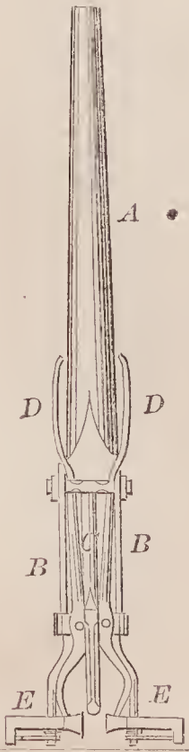
74129—J. W. Post—*Skate.*



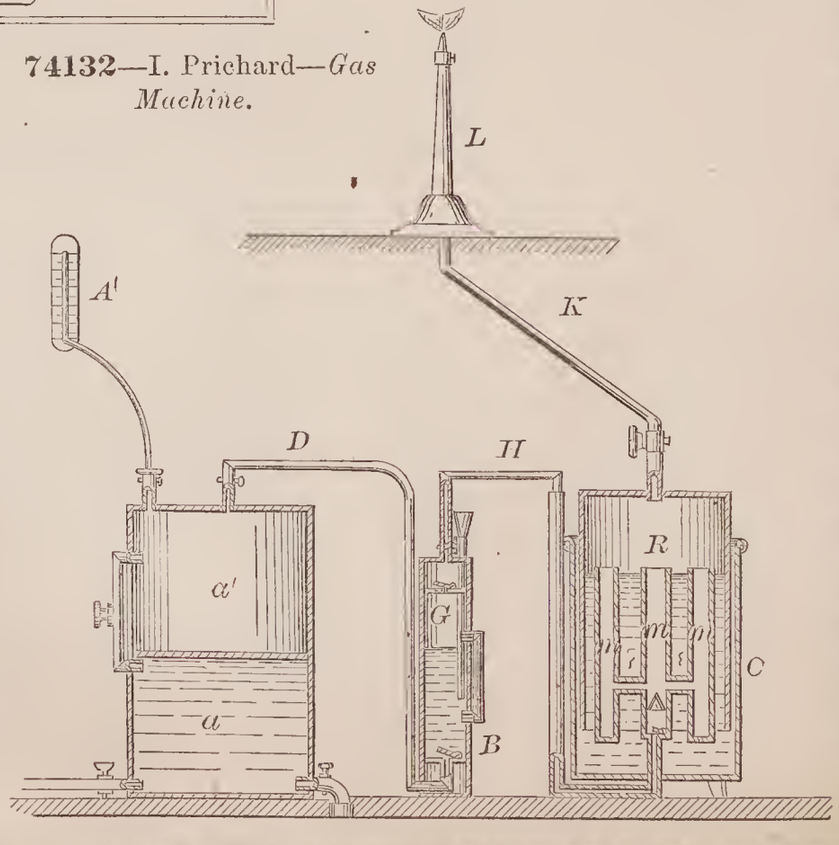
74130—M. Powe—*Carriage Brace*



74128—Portlock & Smith—*Floor Clamp.*

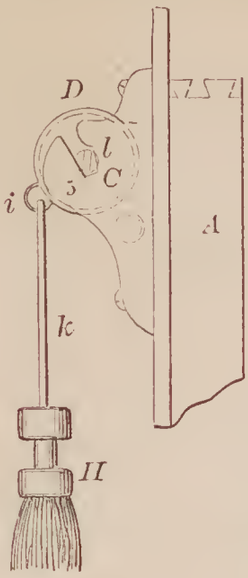


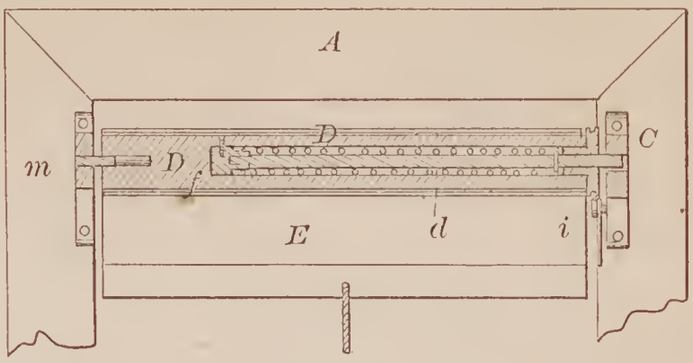
74132—I. Prichard—*Gas Machine.*



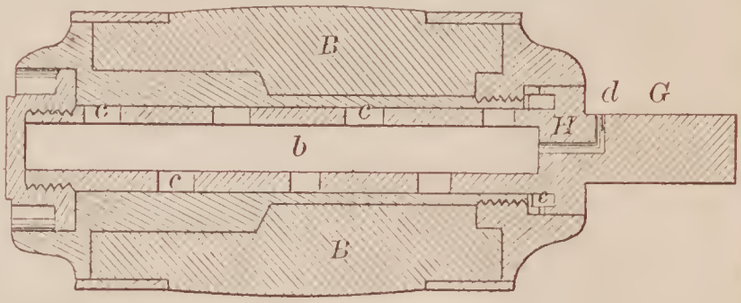
74133—H. F. Purmort—*Connecting Pump Rods.*

74135—S. S. Putnam—*Curtain Fixture.*

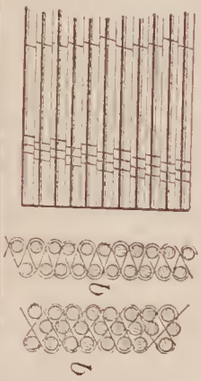




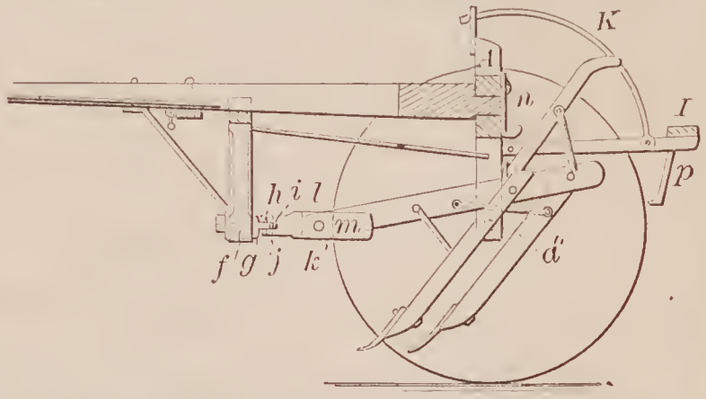
74134—S. S. Putnam—*Self-Lubricating Axle.*



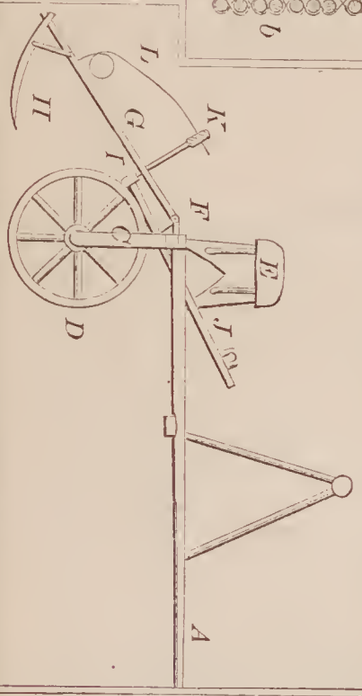
74137—E. F. Richman—*Woven Fabric.*



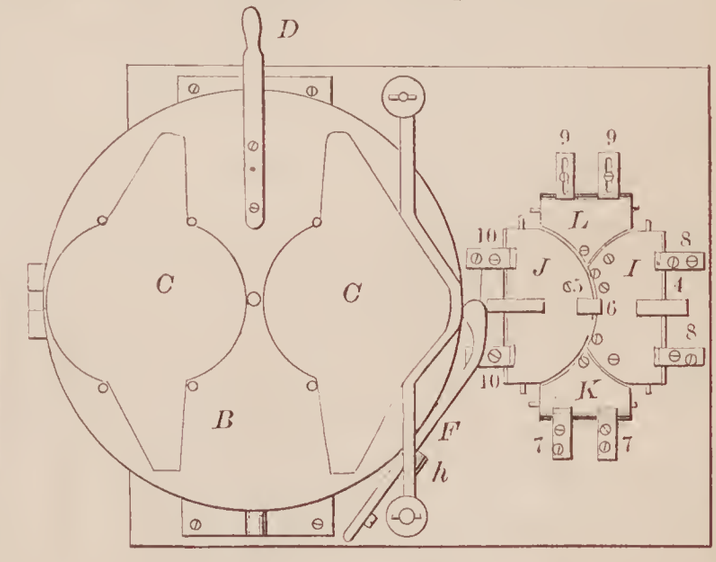
74138—J. C. Rickerd—*Cultivator.*

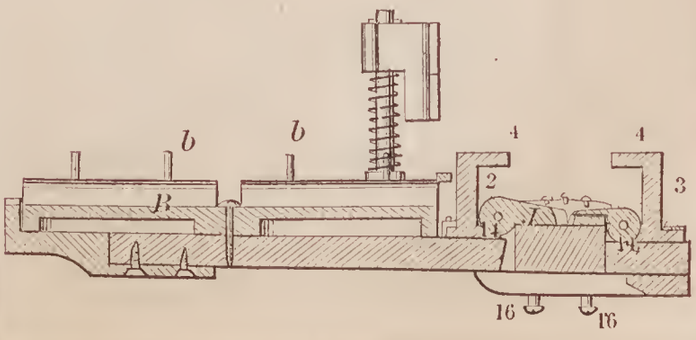


74136—O. E. Randall—*Horse Rake.*

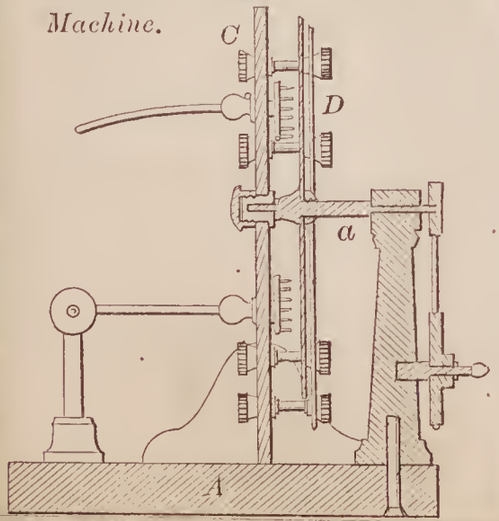


74140—A. A. Rheutan—*Envelope Machine.*

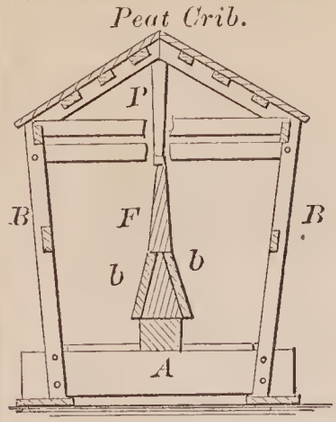




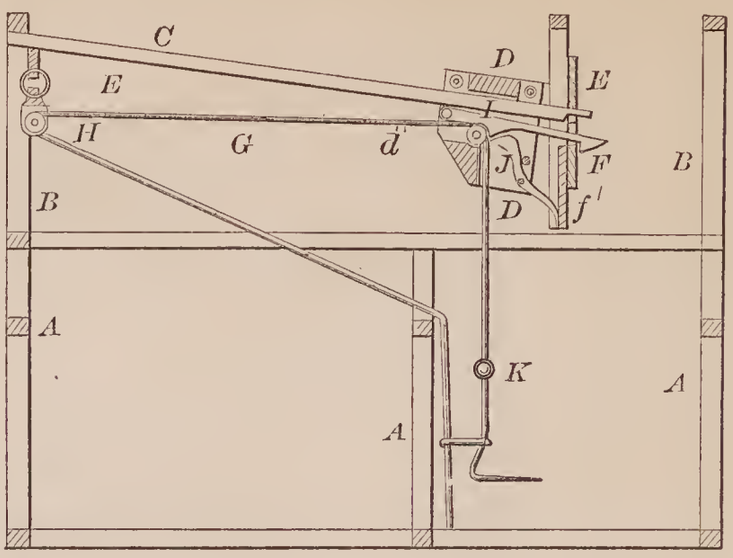
74139—E. S. Ritchie—*Electrical Machine.*



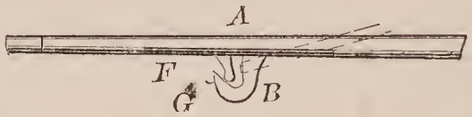
74141—M. S. Roberts—*Peat Crib.*



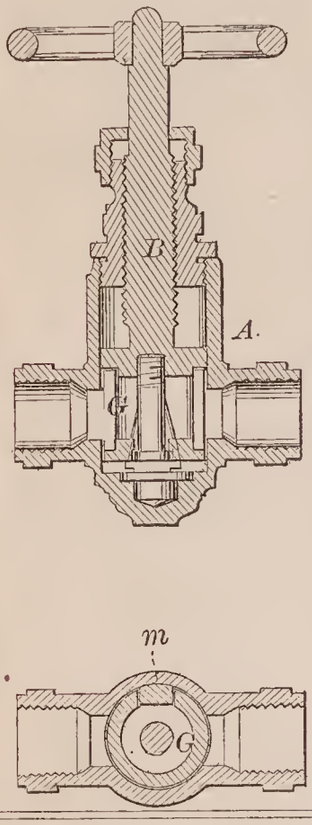
74142—G. M. Robinson—*For Operating Horse Hay Forks.*



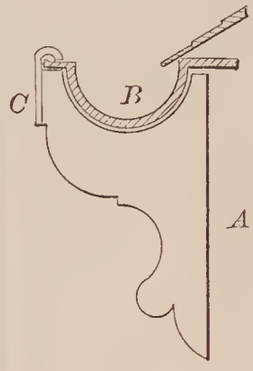
74143—N. W. Robinson—*Hold-Back Hook.*



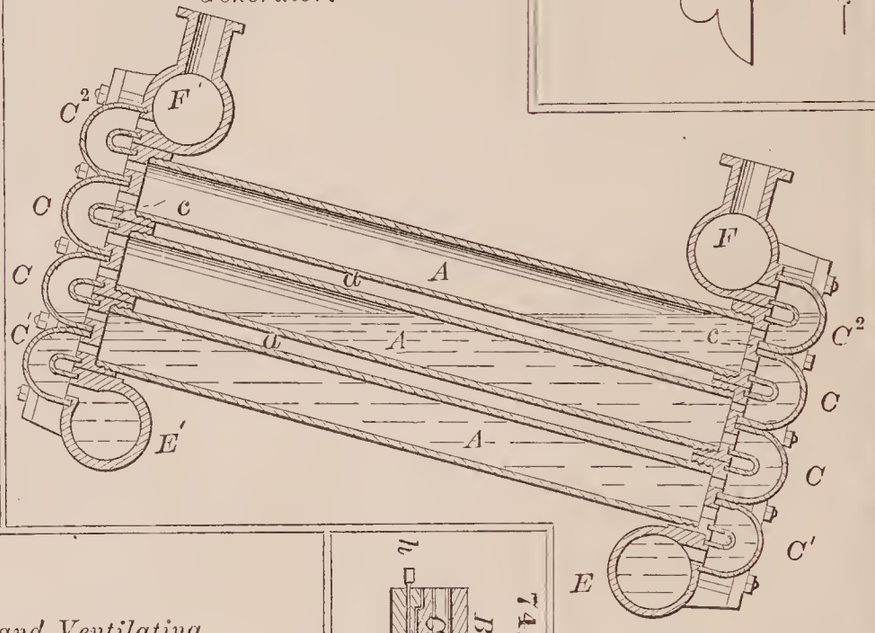
74144—E. A. Rock—*Globe Steam Valve.*



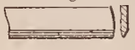
74145—J. E. Rohrer—*Bracket*



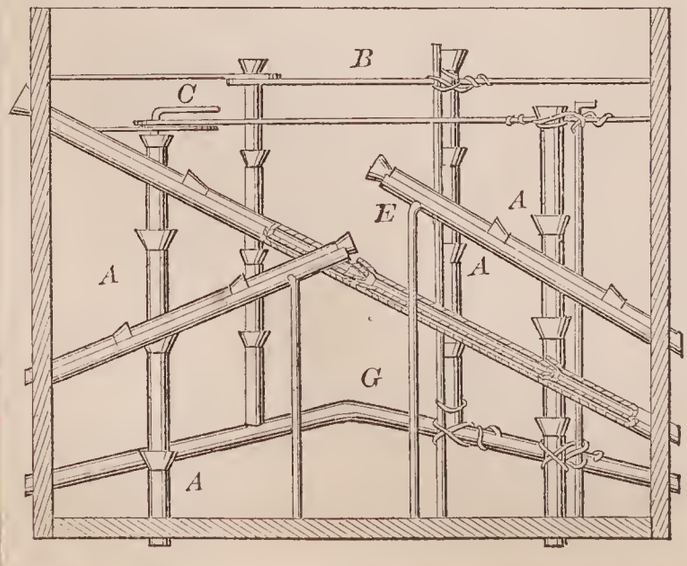
74146—J. B. Root—*Steam Generator.*



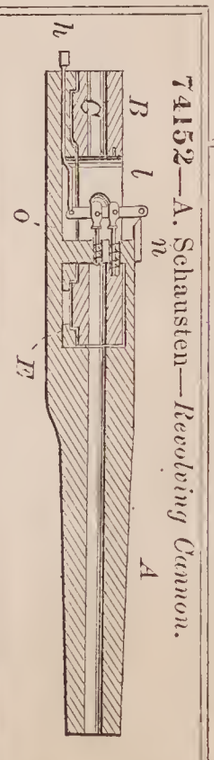
74148—C Rowland—*Leather Peg Strip.*



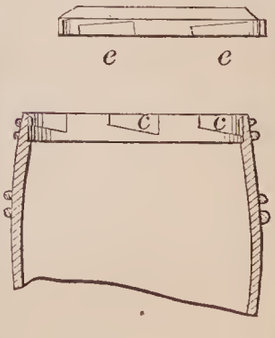
74149—J. Royal—*Drying and Ventilating Apparatus.*



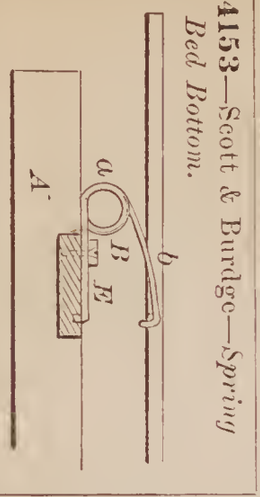
74152—A. Schausten—*Revolving Cannon.*



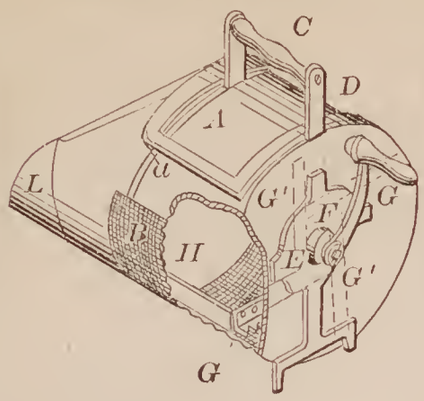
74150—H. D. Rumsey—*Barrel and Firkin.*



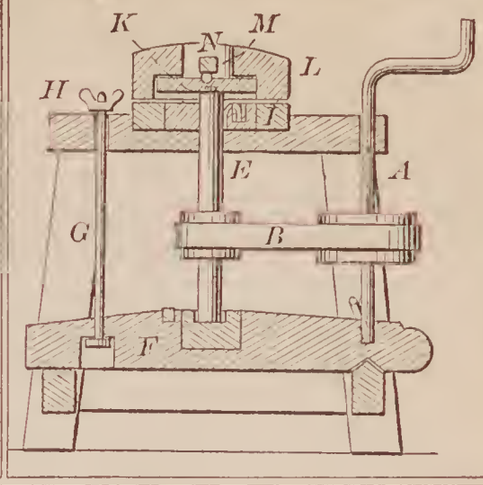
74153—Scott & Burdge—*Spring Bed Bottom.*



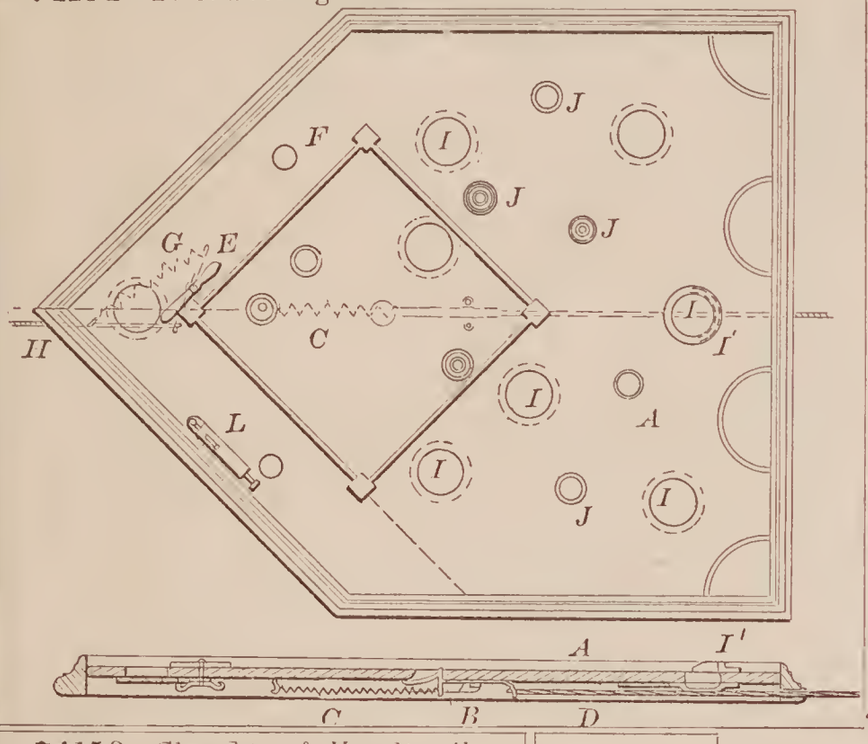
74157—G. W. & C. L. Sherman—*Flour Scoop and Sifter.*



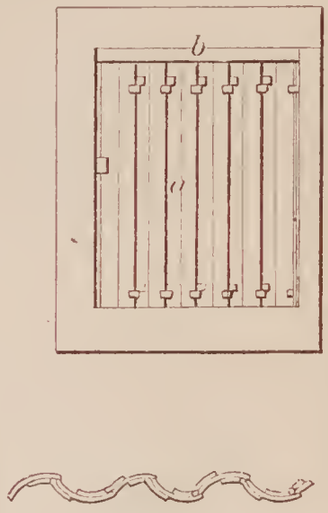
74161—J. Snyder—*Grinding Mill.*



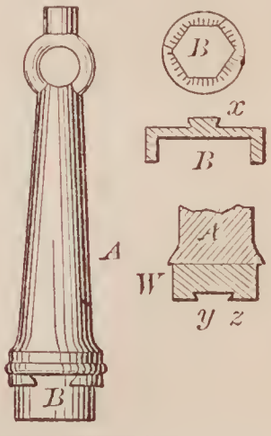
74154—F. C. Sebring—*Parlor Base Ball.*



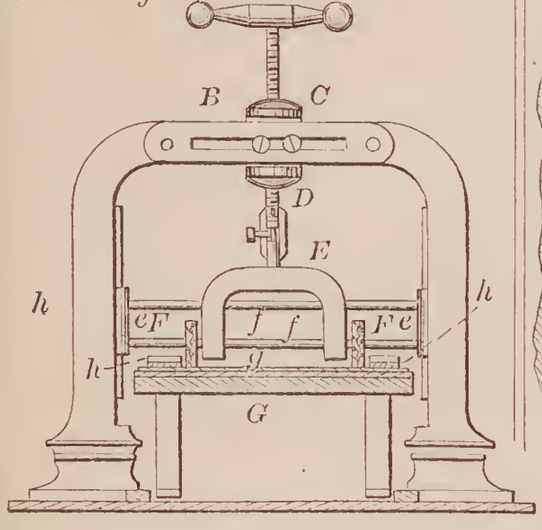
74155—S. J. Seely—*Metal Shutter.*



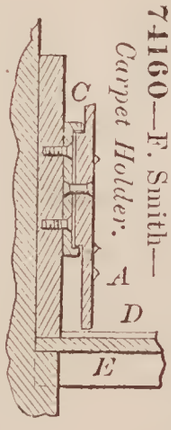
74156—J. M. Seymour—*Wrench.*



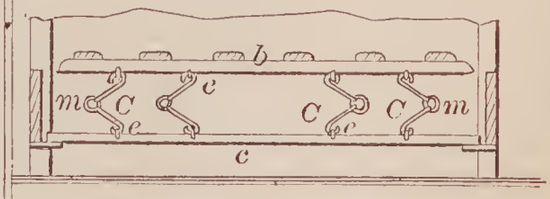
74159—Slaughter & Hundt—*For Embossing Window Shades.*



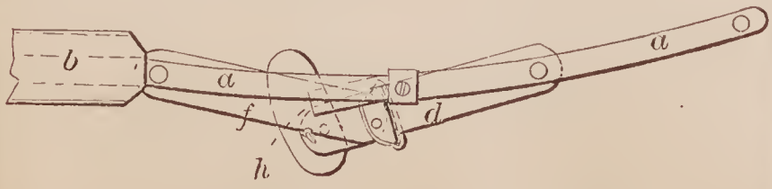
74160—F. Smith—*Carpet Holder.*

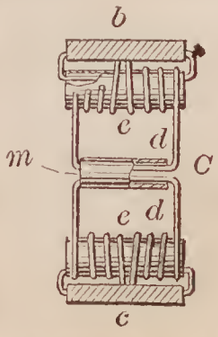


74162—S. L. Southard—*Bed Bottom*

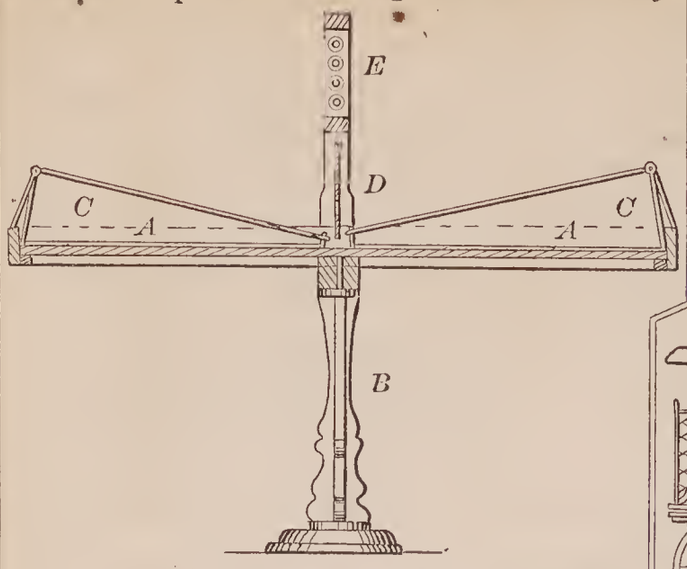


74158—J. A. Sherman—*Truss.*

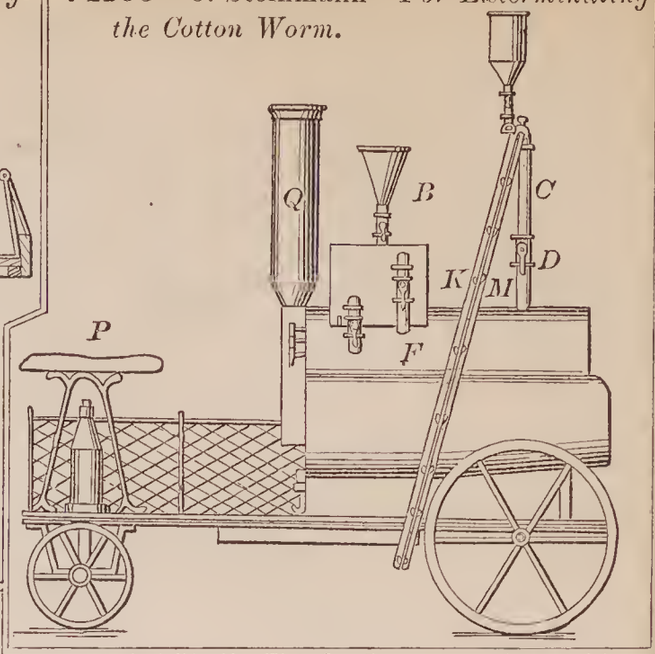




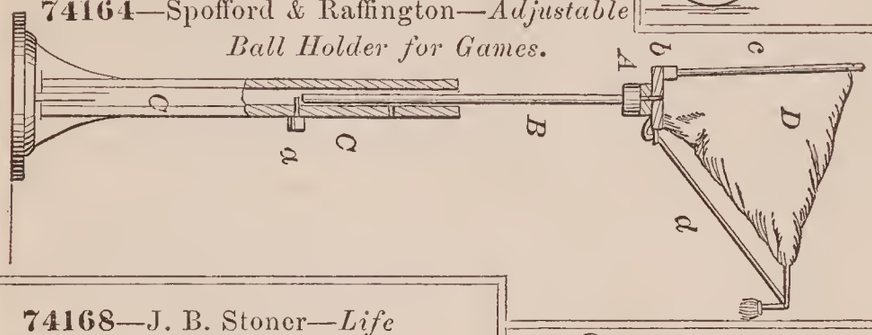
74163—Spofford & Raffington—*Pistol Gallery.*



74165—C. Steinmann—*For Exterminating the Cotton Worm.*



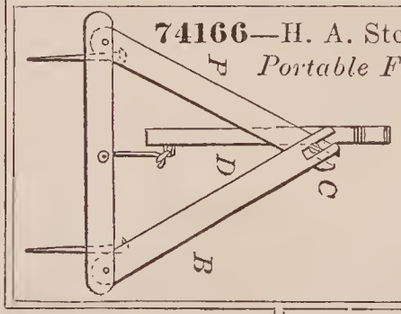
74164—Spofford & Raffington—*Adjustable Ball Holder for Games.*

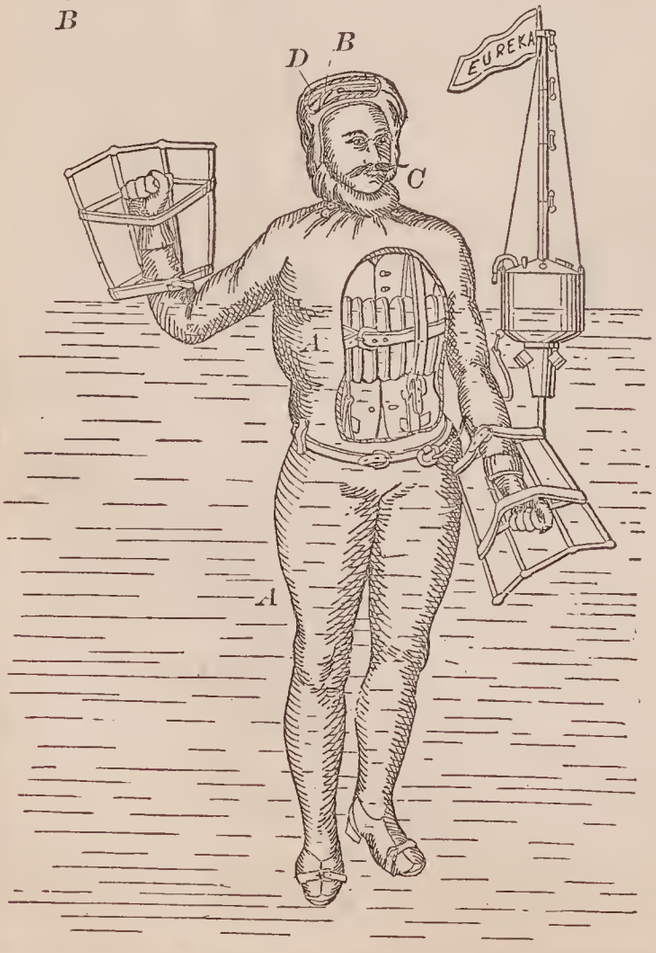


74167—P. Stone—*Box Opener.*

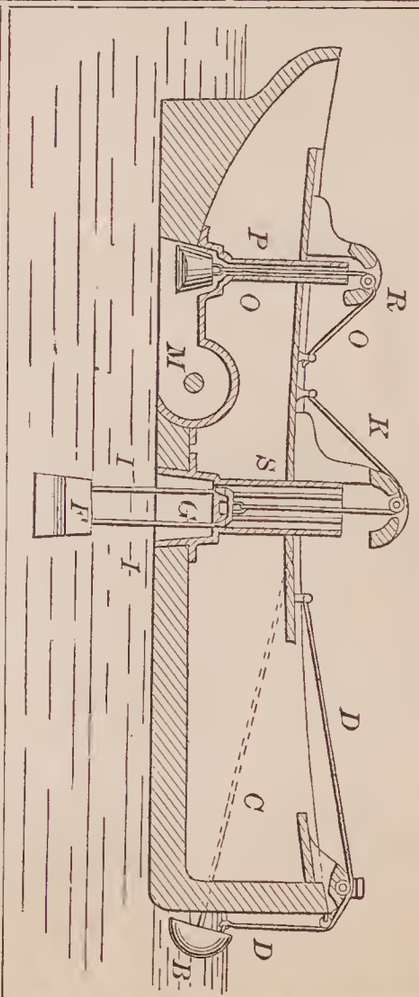
74168—J. B. Stoner—*Life Preserving Apparatus.*

74166—H. A. Stewart—*Portable Fence.*

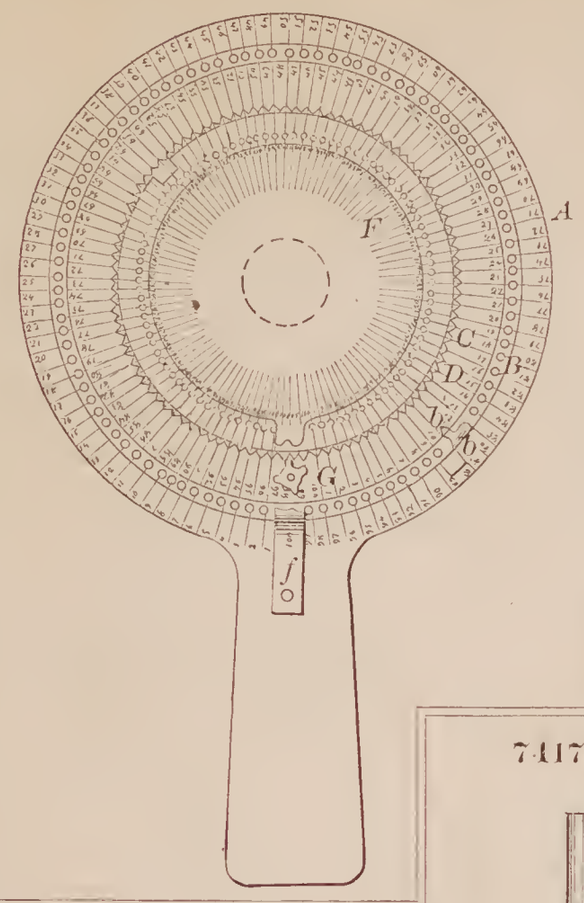




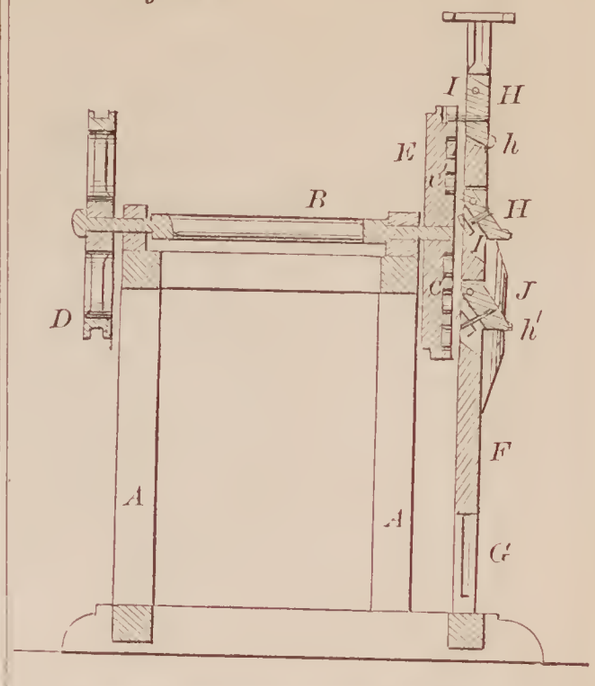
74169—J. B. Stoner—*Ballasting Vessels.*



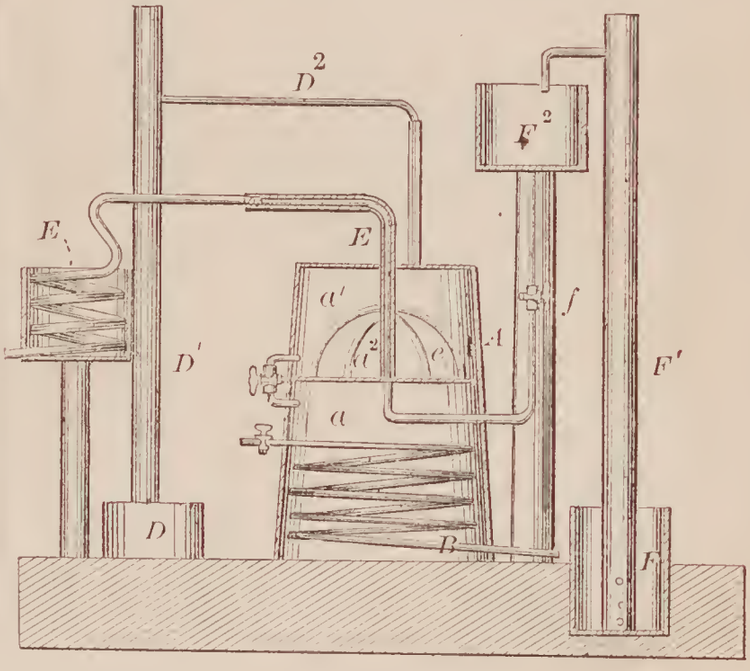
74170—T. T. Strode—*Calculating Machine.*



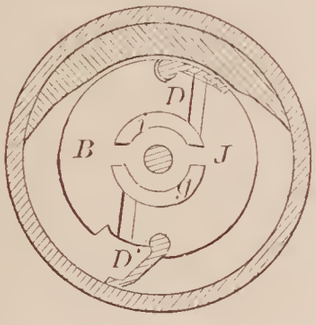
74173—S. E. Tuttle—*For Raising Heavy Weights.*



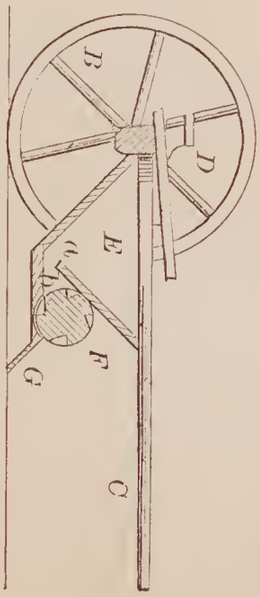
74174—R. L. Vance—*Vinegar Still.*



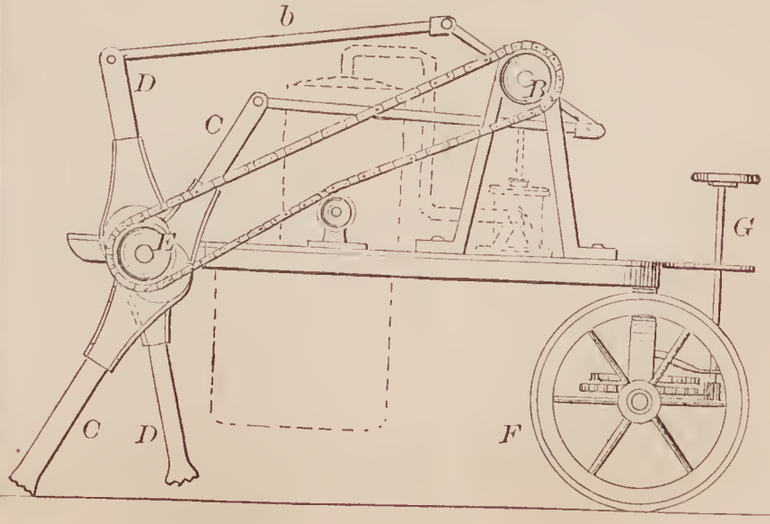
74172—C. B. Turner—*Rotary Steam Engine.*



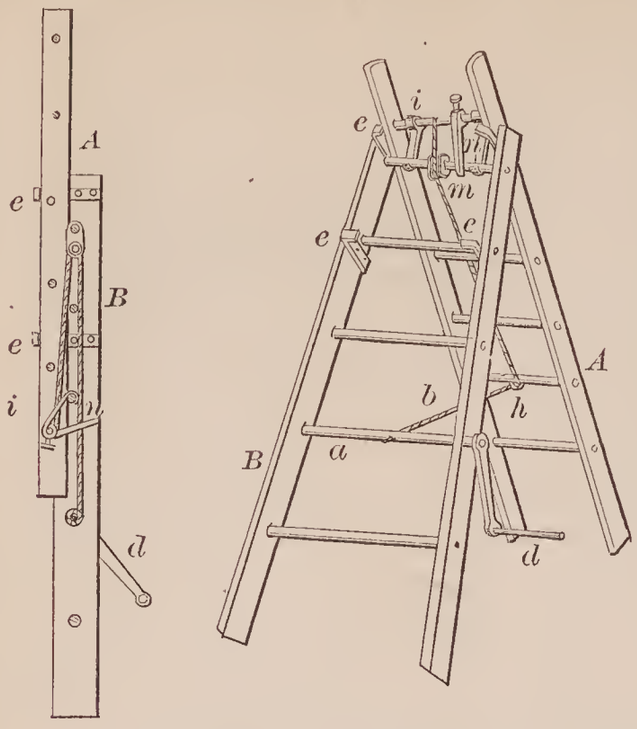
74171—S. Thomson—*Broadcast Seeding Machine.*



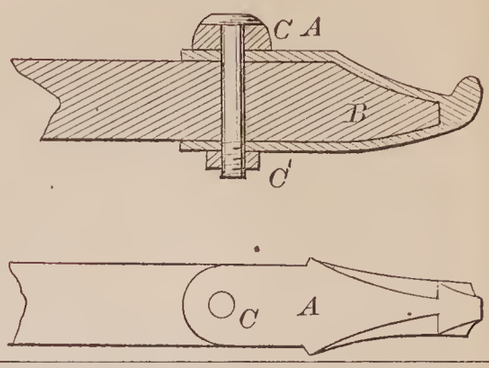
74176—R. C. Vernol—*Walking Vehicle.*



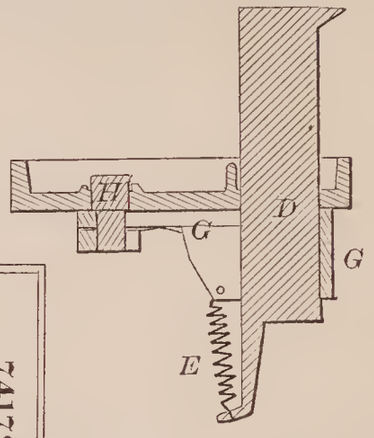
74177—G. S. Walker—*Step Ladder.*



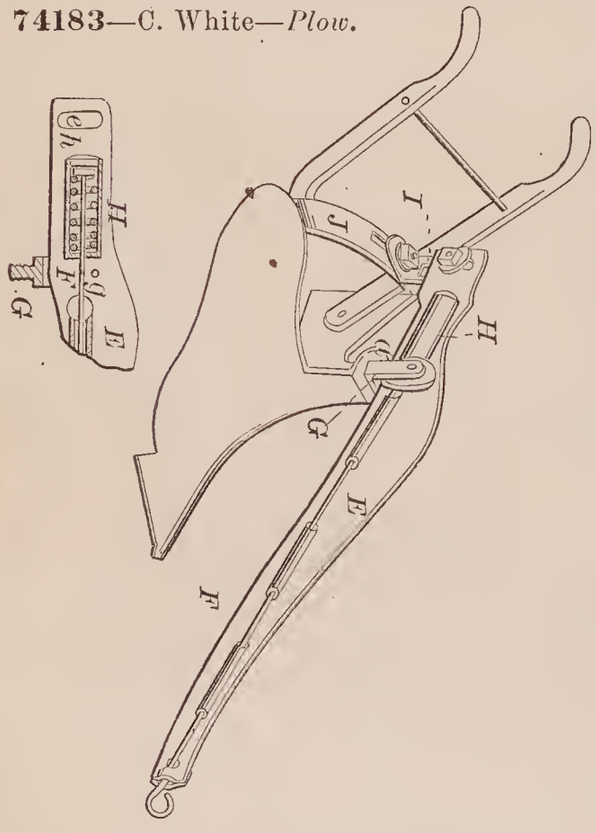
74178—Warburton & Bendir—*Spring Bar for Carriages.*



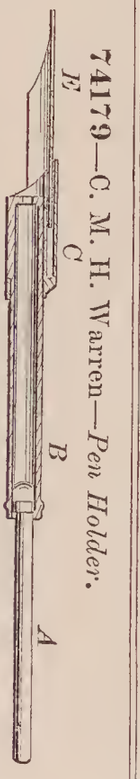
74182—C. H. Weston—*Bench Hook.*



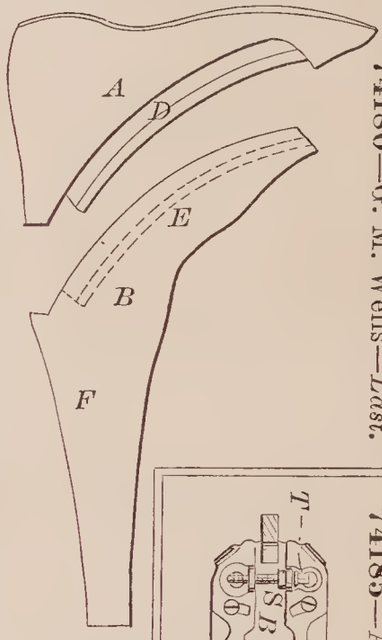
74183—C. White—*Plow.*



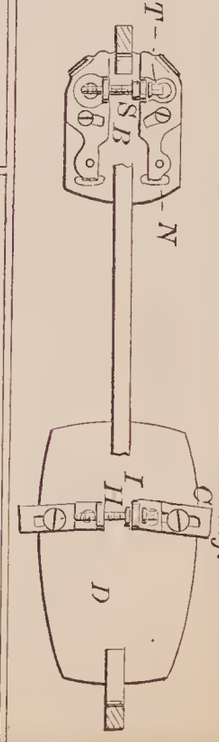
74179—C. M. H. Warren—*Pen Holder.*



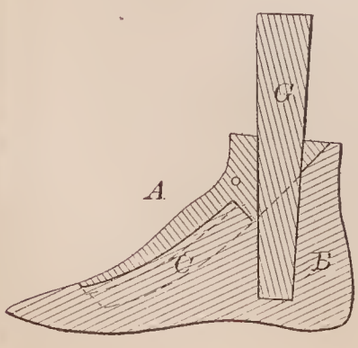
74180—G. M. Wells—*Last.*



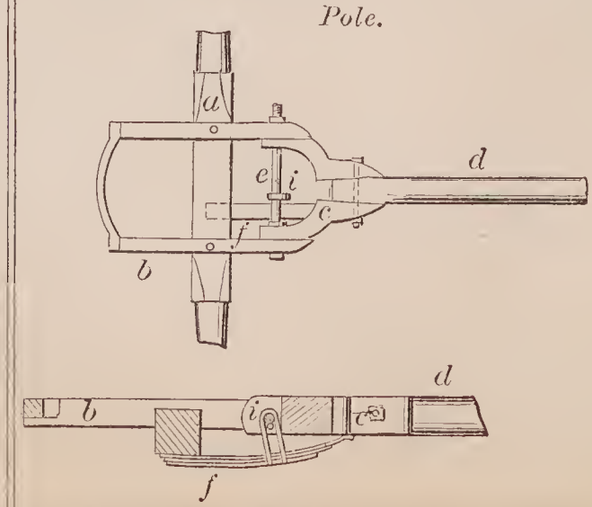
74185—A. Woodham—*Skate Fastening.*



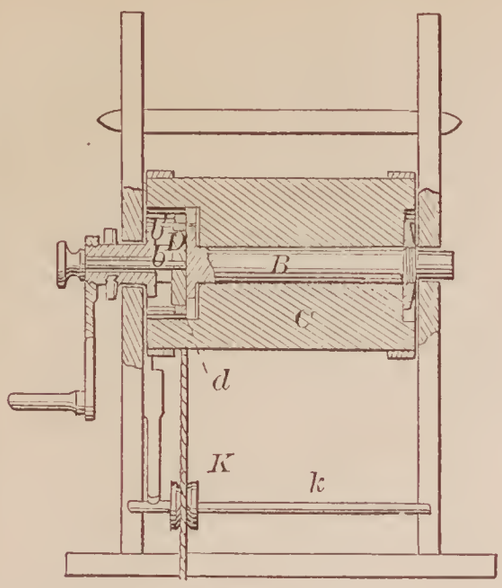
74181—G. M. Wells—*Last.*



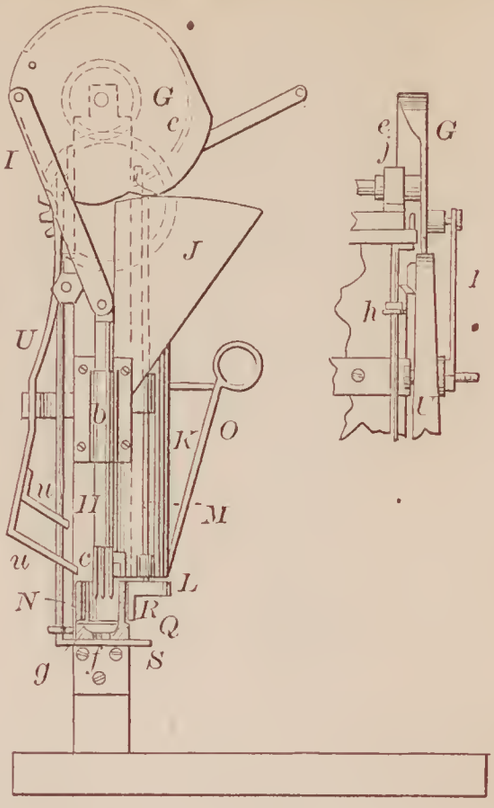
74184—S. B. Whitney—*Carriage Draft Pole.*



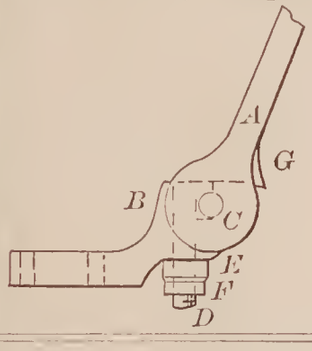
74186—C. F. Woodruff—*Water Elevator.*



74187—R. Wright—*Cherry Stoner.*

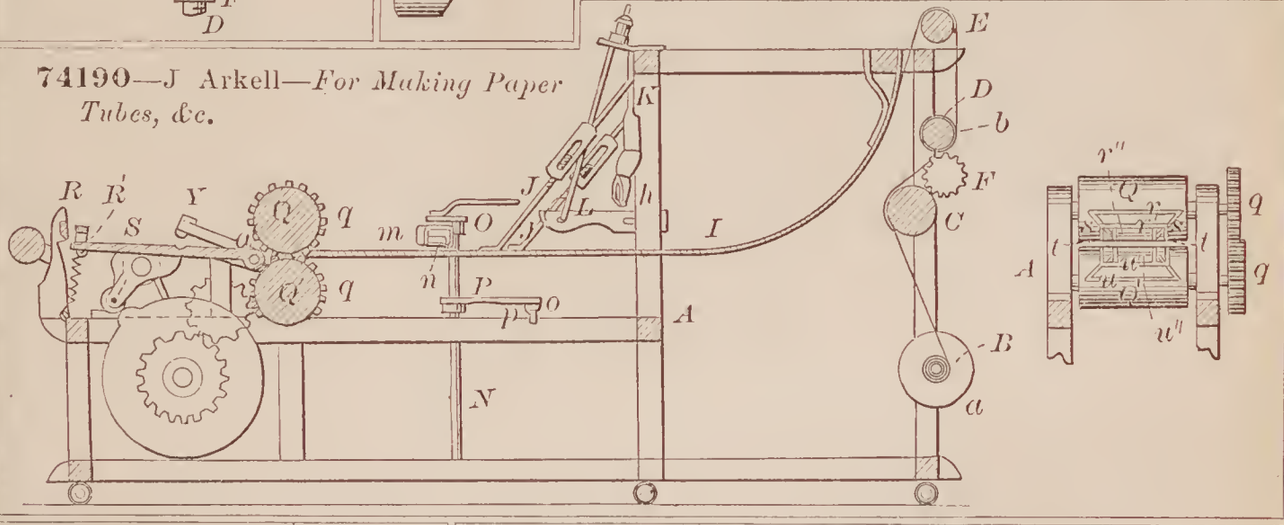


74189—E A. Harvey—*Carriage Shaft Coupling.*

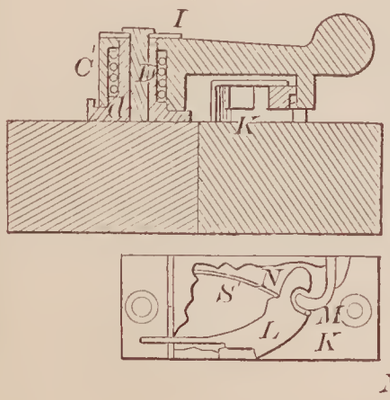


74191—J. J. Barnes—*Harvester Finger Bar.*

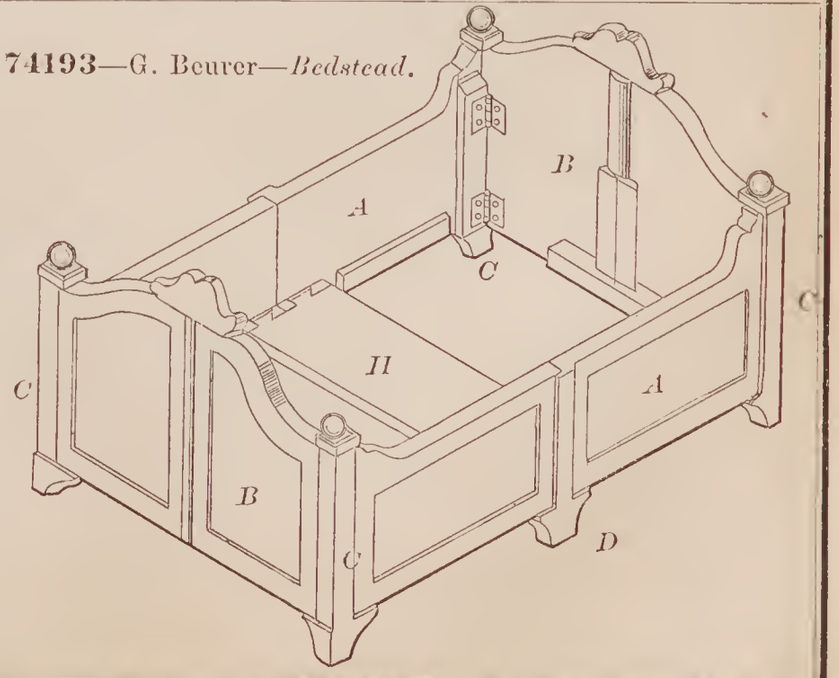
74190—J Arkell—*For Making Paper Tubes, &c.*



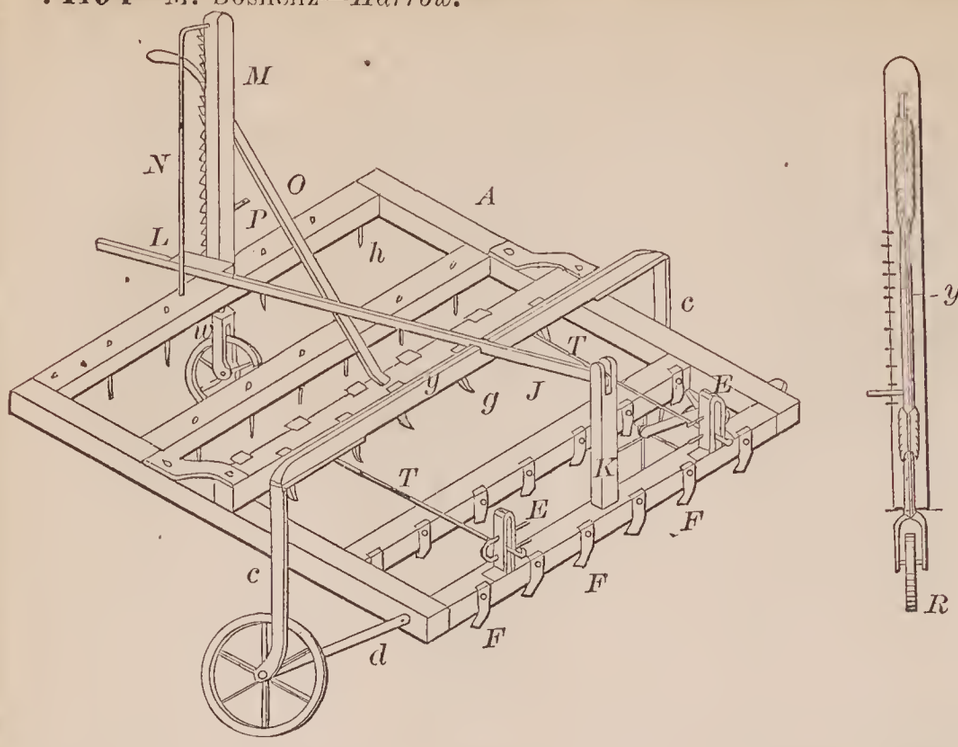
74192—R. Bates—*Window Sash Fastener.*



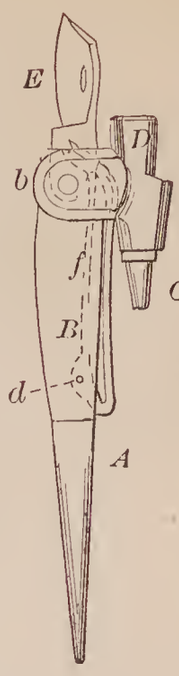
74193—G. Beurer—*Bedstead.*



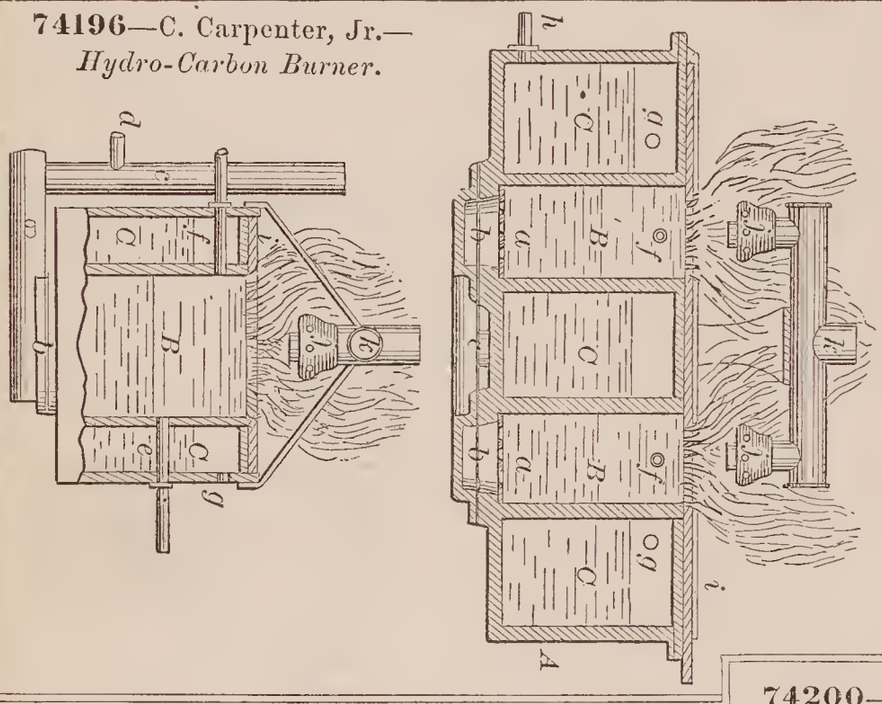
74194—M. Böshenz—*Harrow.*



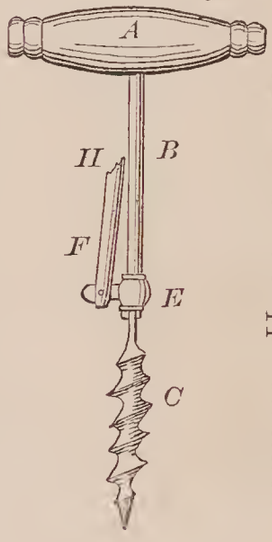
74197—J. T. Carson—*Belt Punch.*



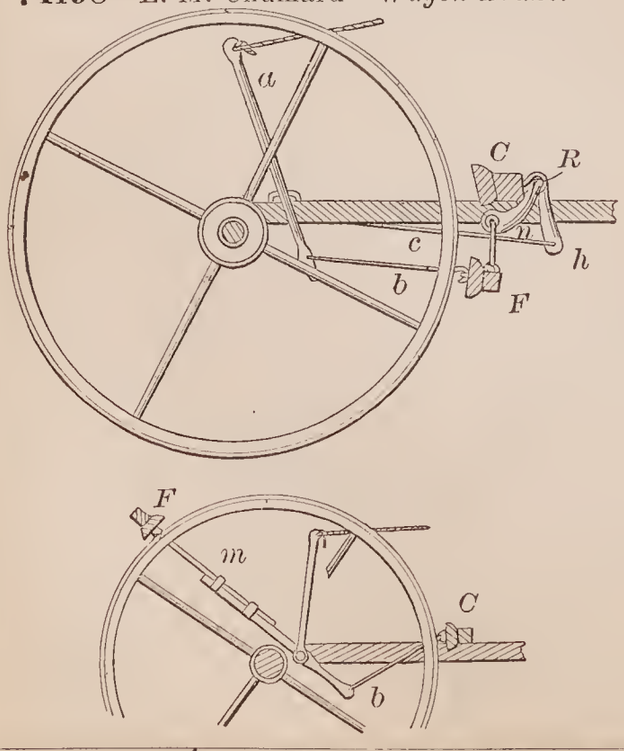
74196—C. Carpenter, Jr.—*Hydro-Carbon Burner.*



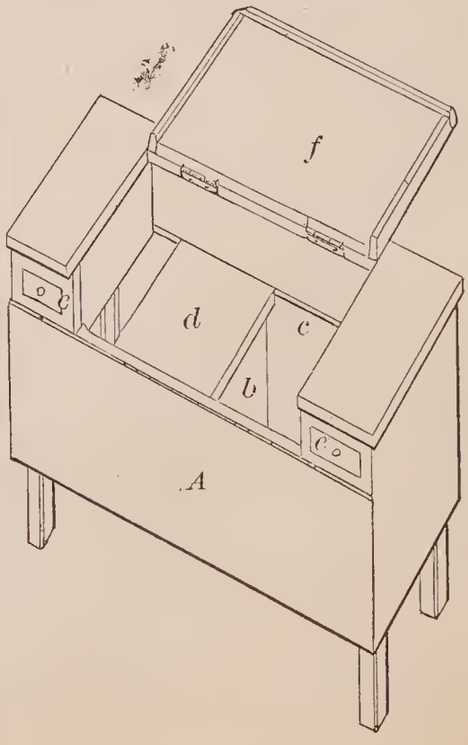
74199—S. E. Clapp—*Corkscrew.*



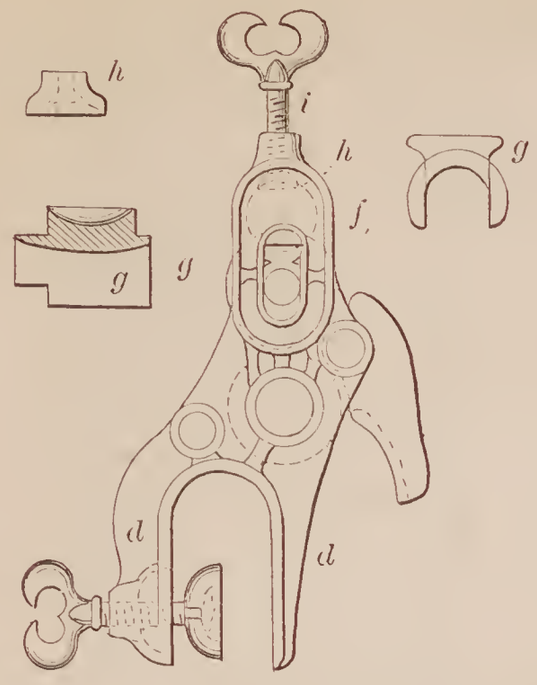
74198—E. M. Chumard—*Wagon Brake.*



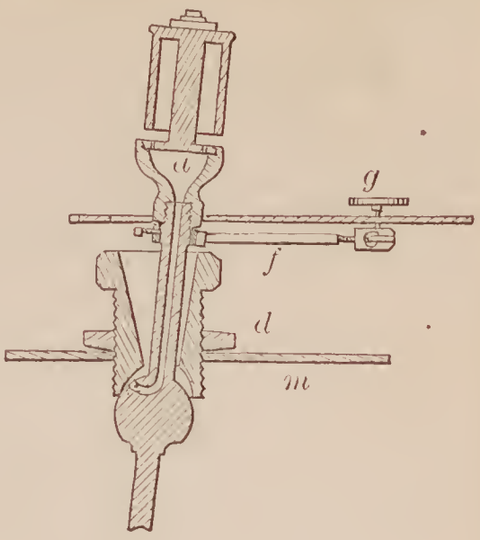
74200—T. J Corr—*Meal Chest.*

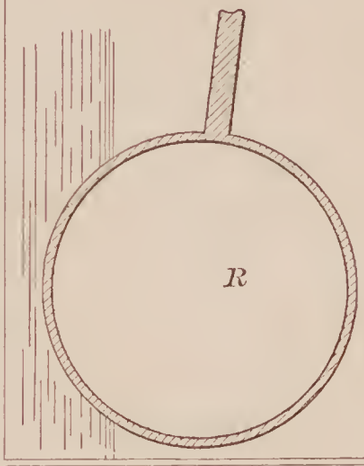


74201—E. H. Covel—*Clothes Wringer.*

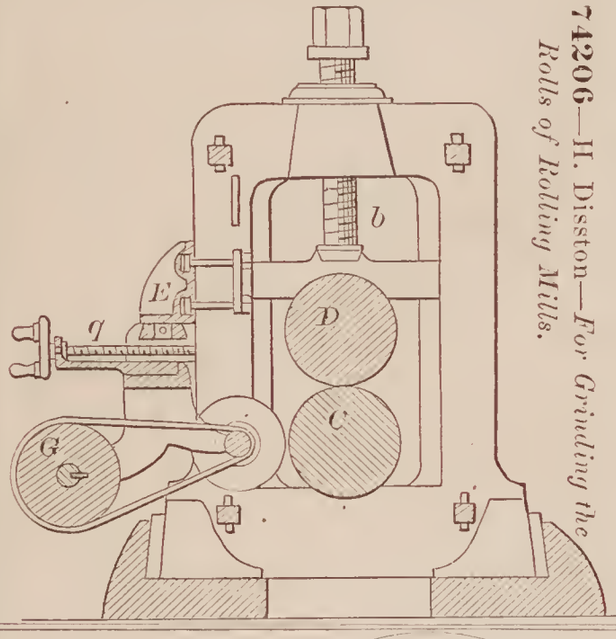


74204—C. Delafield—*Water Gauge.*

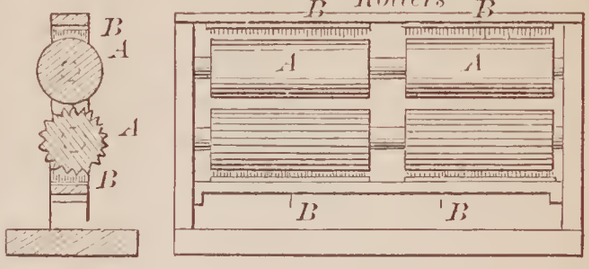




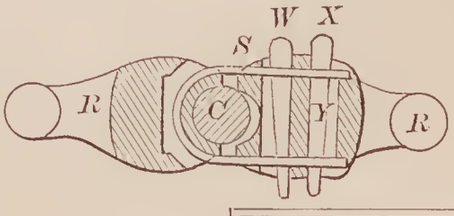
74206—H. Disston—*For Grinding the Rolls of Rolling Mills.*

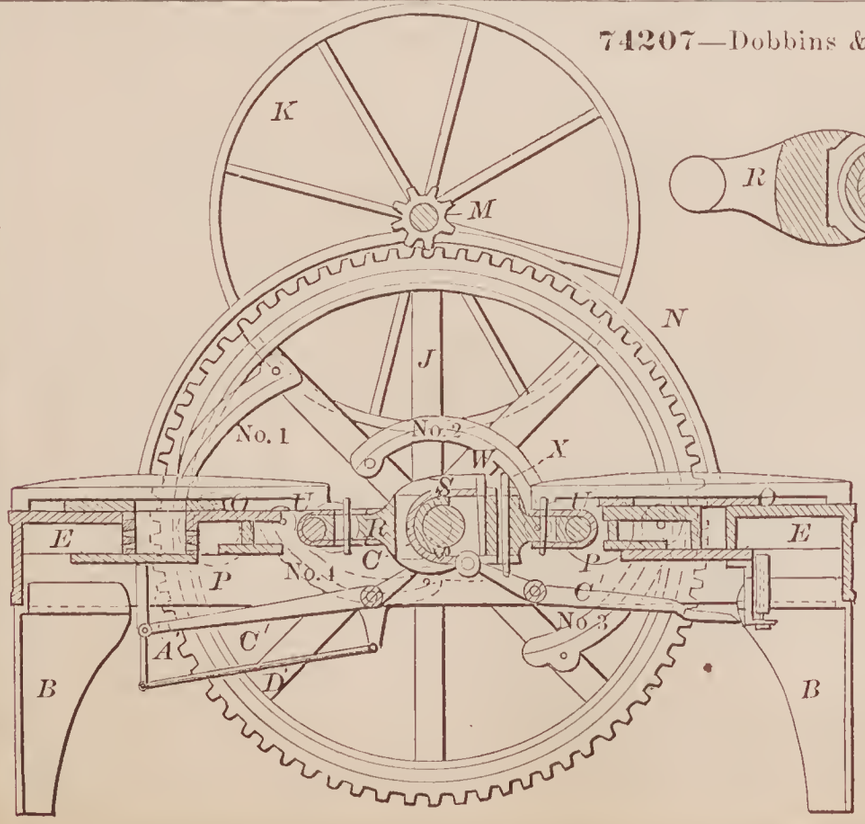


74202—D. Crowley—*Cleaner for Drawing Rollers*

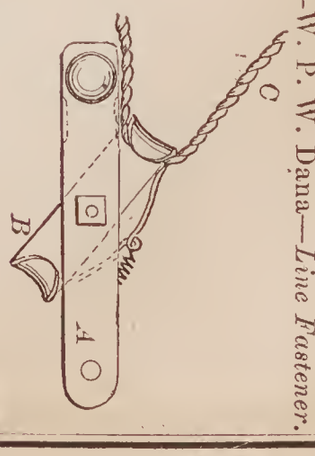


74207—Dobbins & Richards—*Brick Machine.*

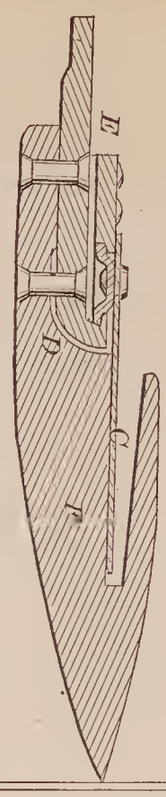




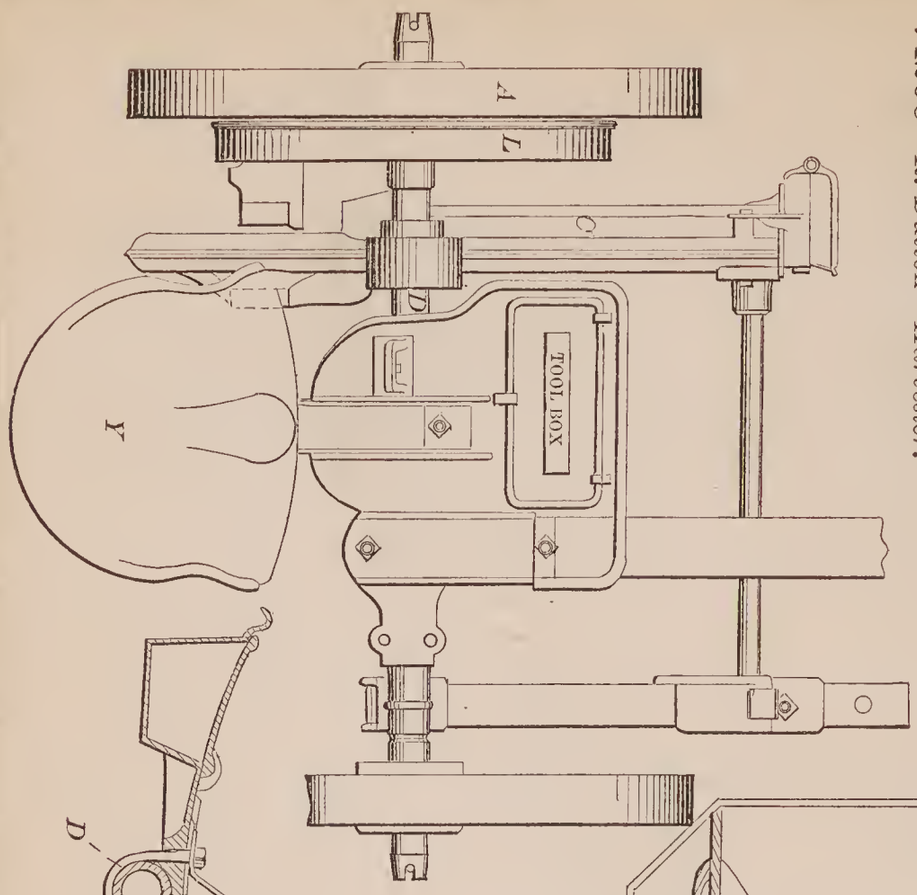
74203—W. P. W. Dana—*Line Fastener.*

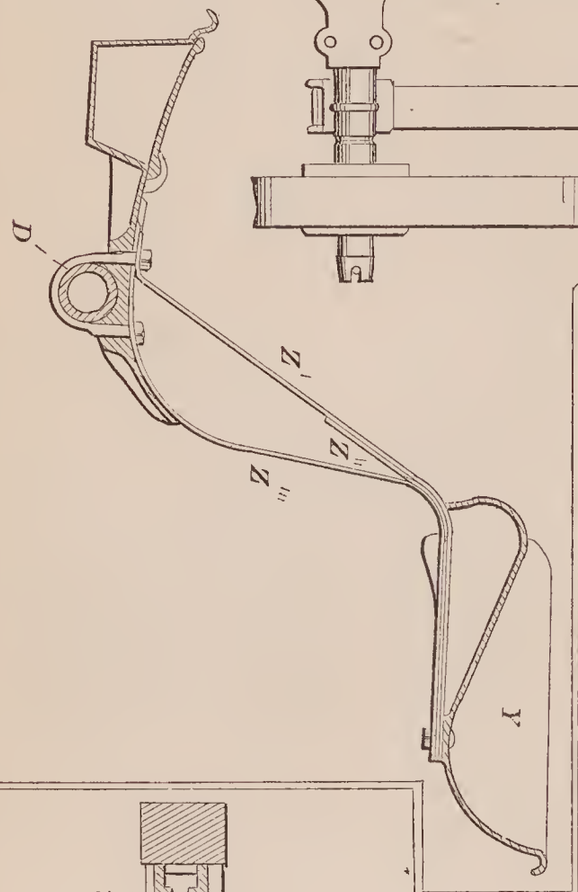


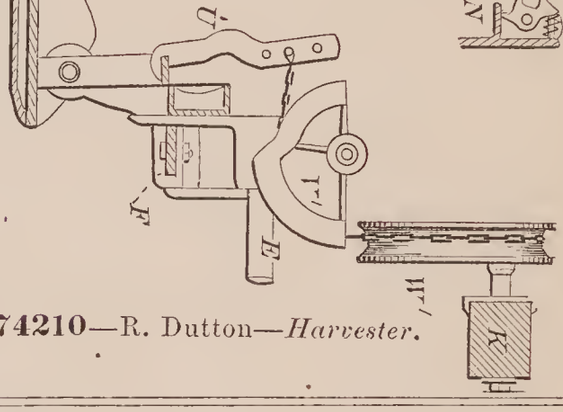
74211—R. Dutton—*Harvester Cutting Apparatus.*



74208—R. Dutton—*Harvester.*

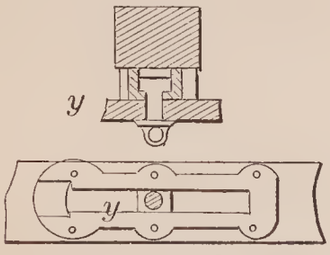


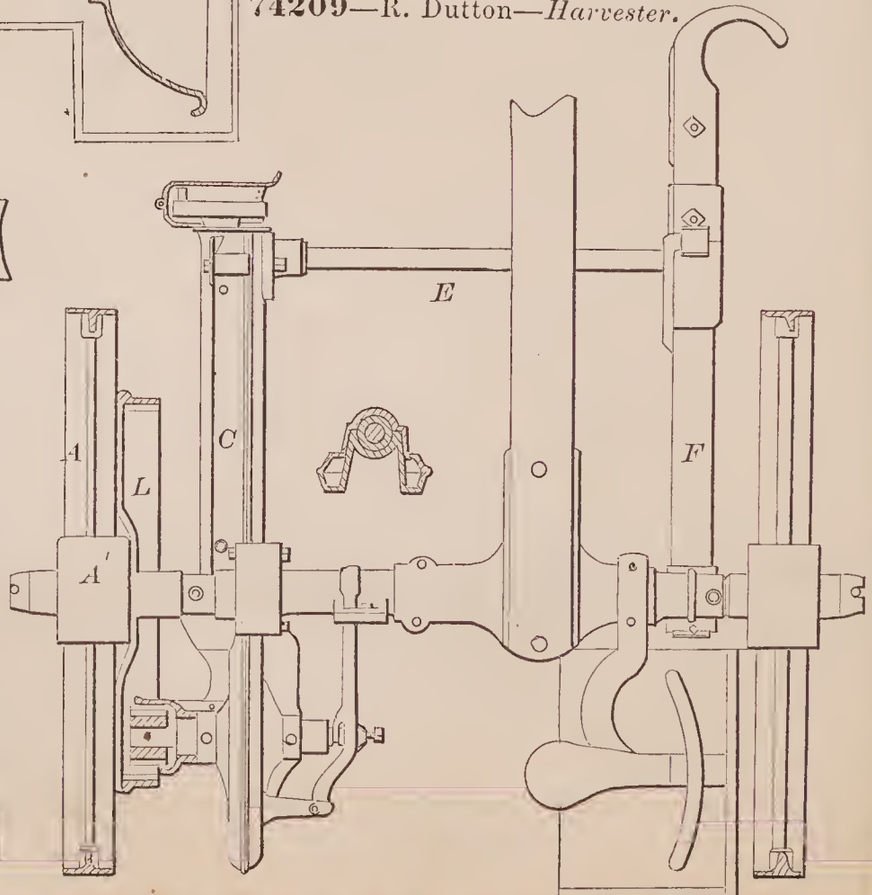




74210—R. Dutton—*Harvester.*

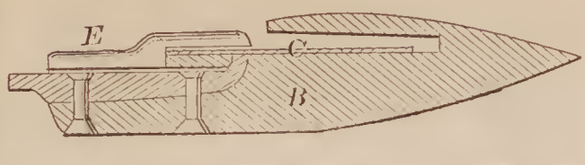
74209—R. Dutton—*Harvester.*



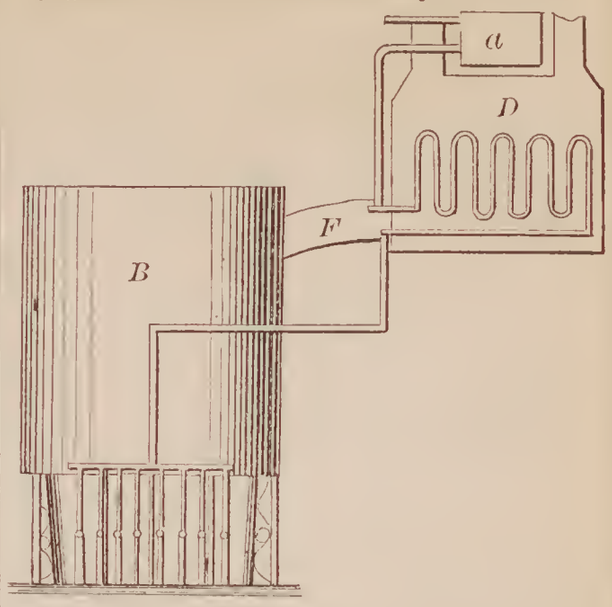


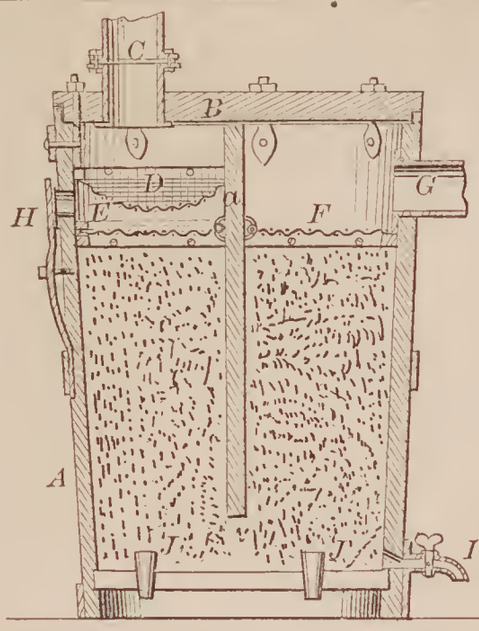
74212—R. Dutton—*Harvester Cutting Apparatus.*

74213—R. Dutton—*Harvester Cutting Apparatus.*



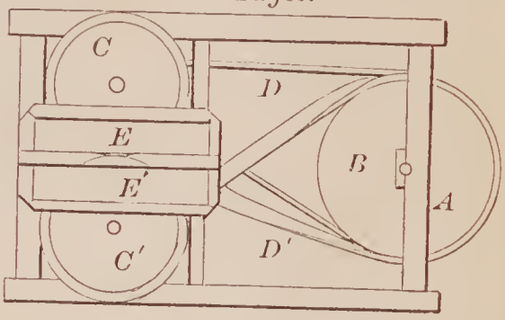
74217—A. Hamar—*Smelting Iron Ore.*



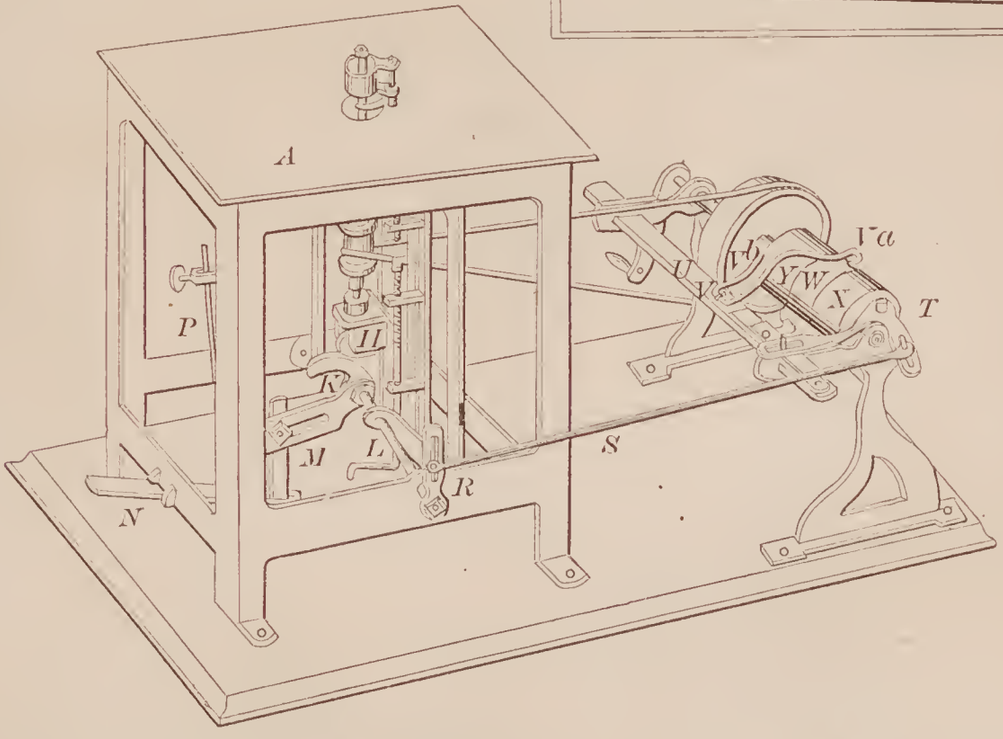


74215—Ganner & Bader—*Cistern Filter.*

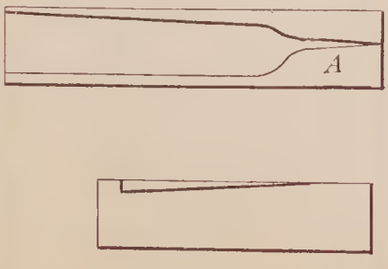
74216—S. Hagaman—*For Beveling Slate Edges.*



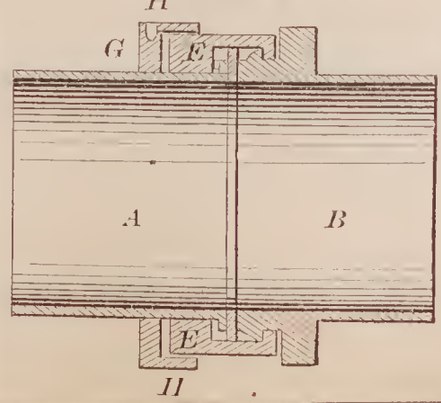
74218—D. A. Harris—*Wood Planing Machine.*

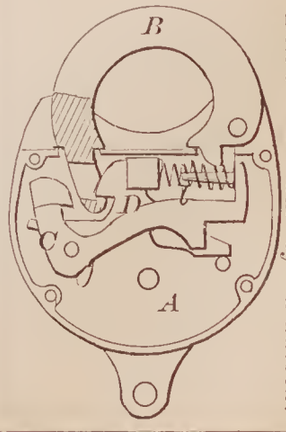


74214—W. Fosket—*For Grinding Cutlery.*



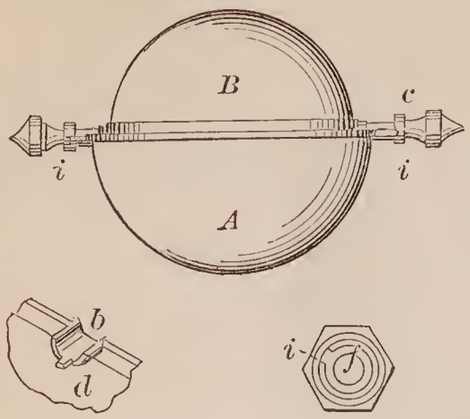
74219—C. F. Hartwig—*Hose Coupling.*



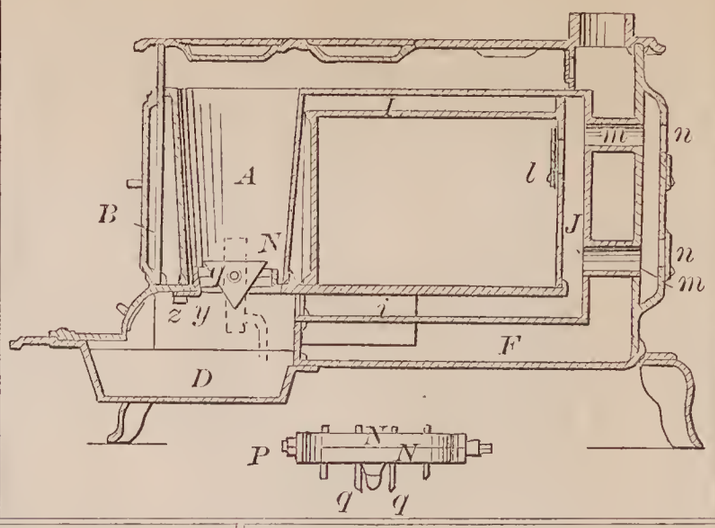


74220—W. Harvey—*Padlock.*

74221—W. E. Hawkins—*Butter Dish.*

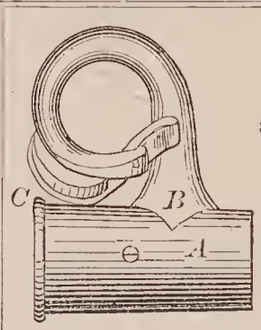


74228—J. L. Kastendike—*Cooking Stove.*

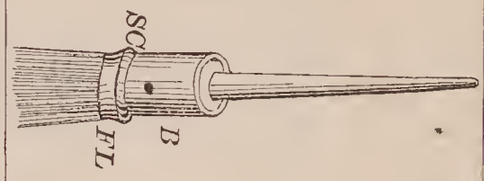


74226—H. Hull—*Hay Loader.*

74222—W. H. Hawley—*Whiffletree Hook.*



74224—G. Hergesheimer—*Brush Bridle.*



74227—S. E. Jewett—*Operating Window Shutters.*

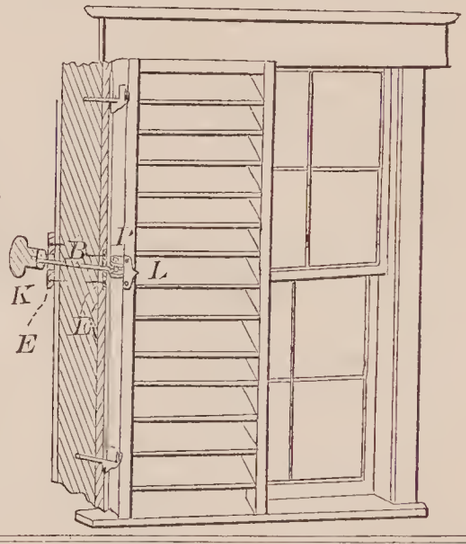
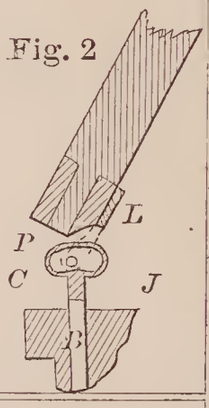
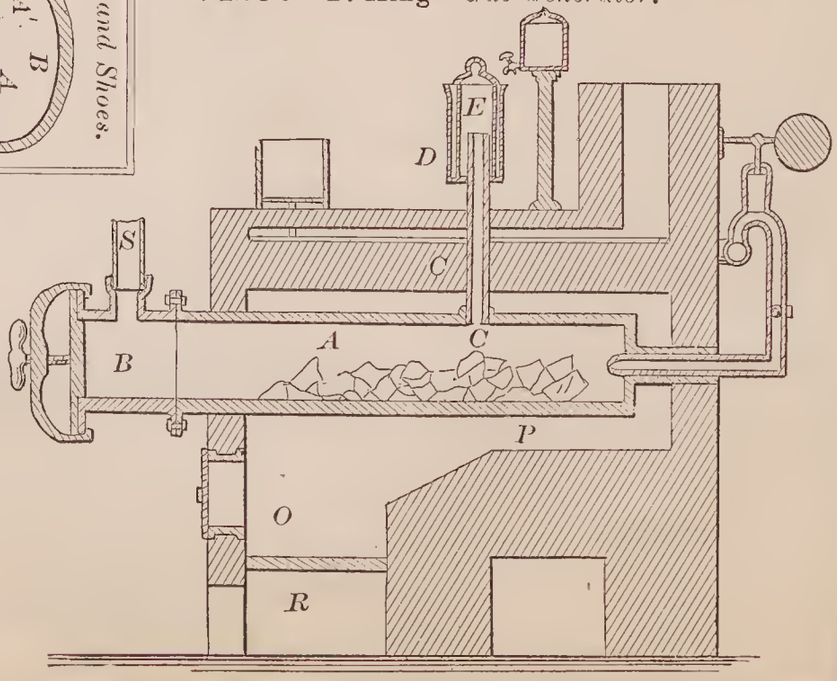


Fig. 2

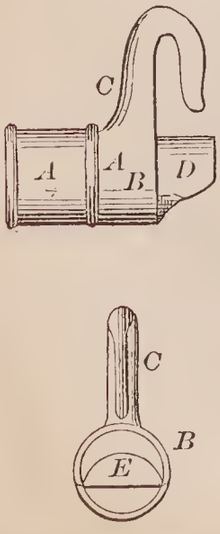


74229—W. & J. Keats—*Boots and Shoes.*

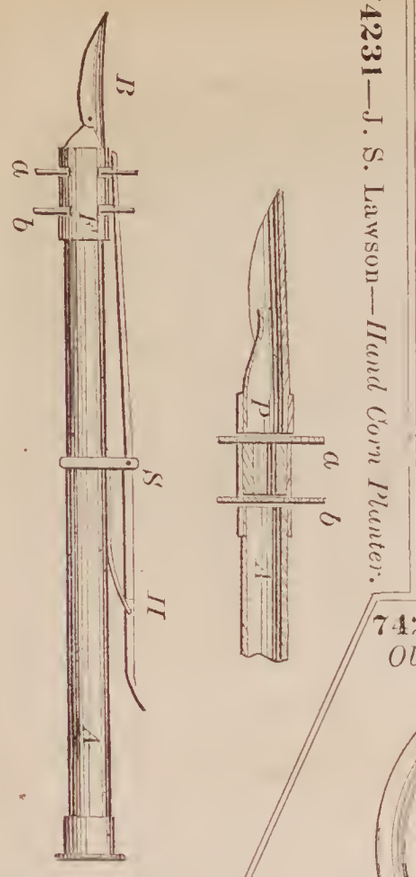
74230—F. King—*Gas Generator.*



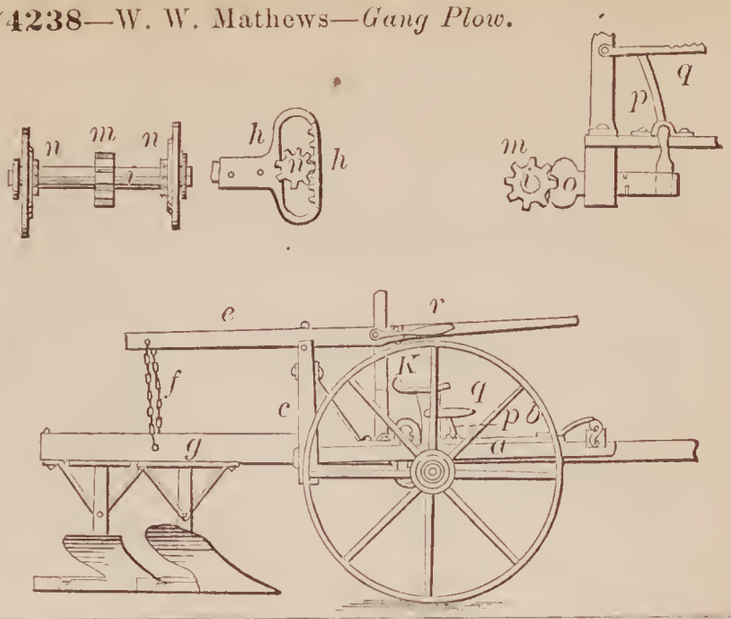
74223—W. H. Hawley—*Whiffletree Hook.*



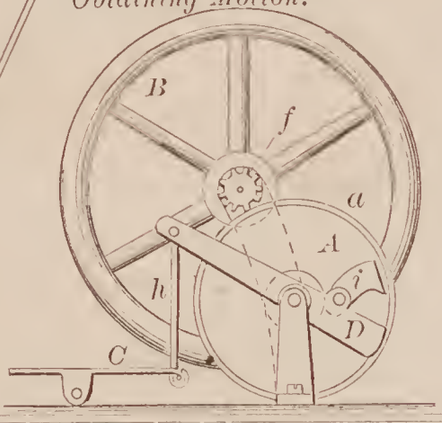
74231—J. S. Lawson—*Hand Corn Planter.*



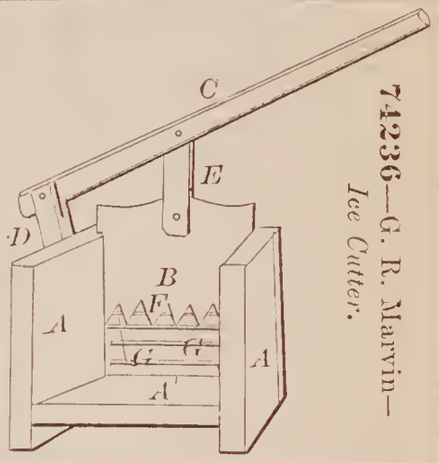
74238—W. W. Mathews—*Gang Plow.*



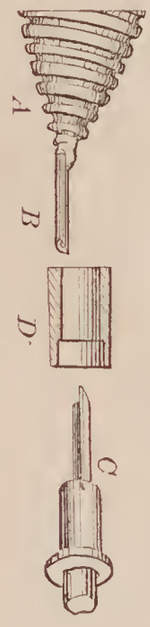
74234—S. Marden—*For Obtaining Motion.*



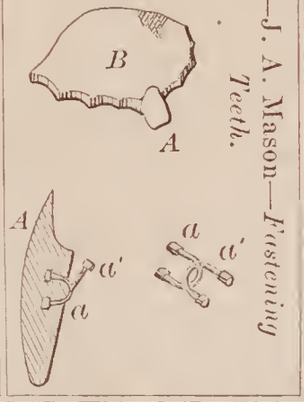
74236—G. R. Marvin—*Ice Cutter.*

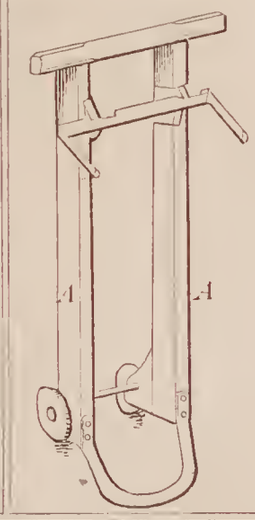


74233—D. Manuel—*For Making Wire Springs.*

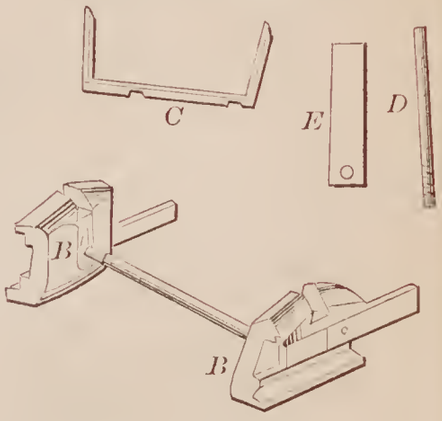


74237—J. A. Mason—*Fastening Teeth.*

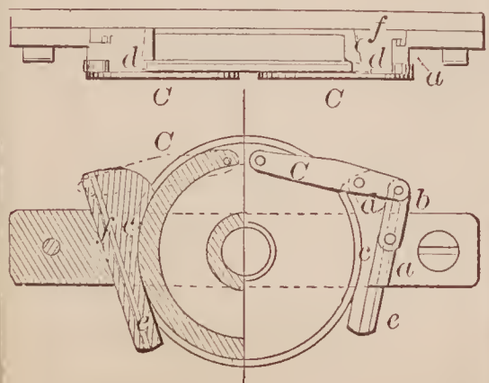




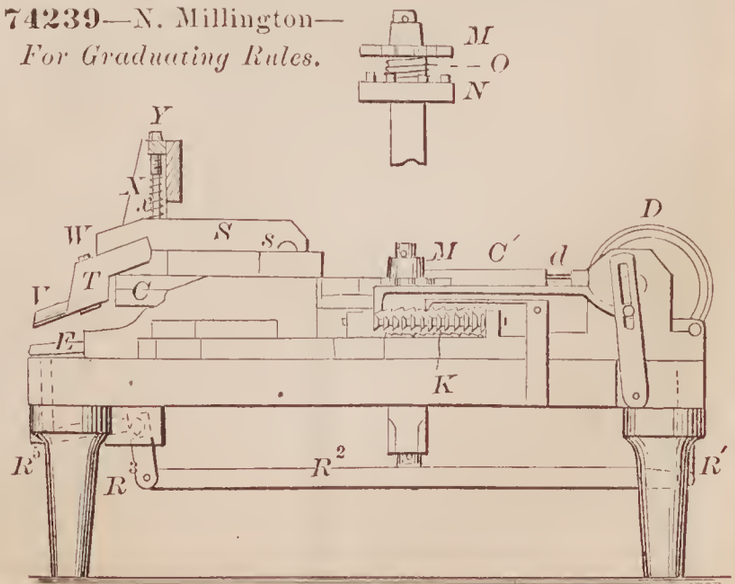
74232—J. S. Lehman—*Bag Holding Apparatus.*



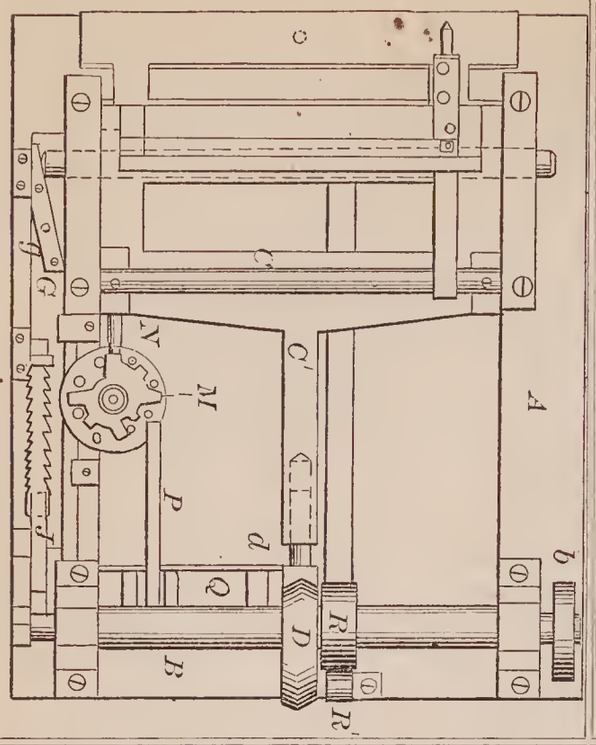
74235—S. Marden—*Car Brake.*



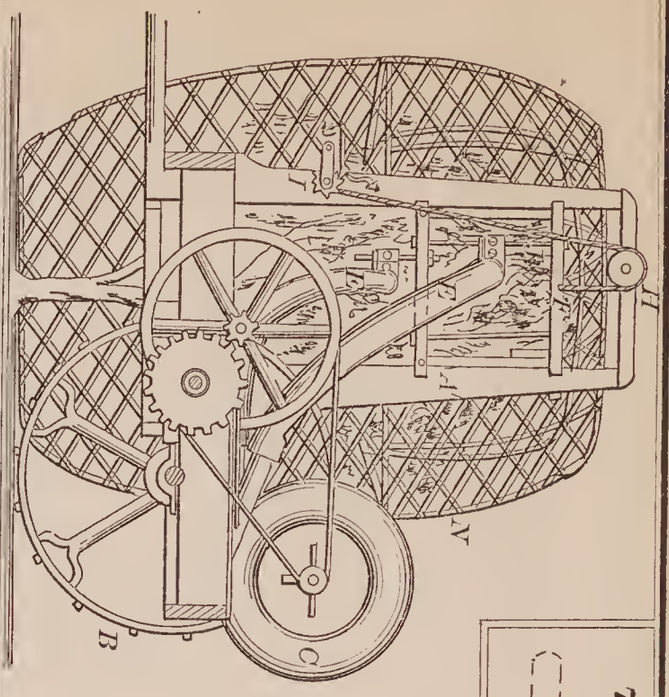
74239—N. Millington—*For Graduating Rules.*



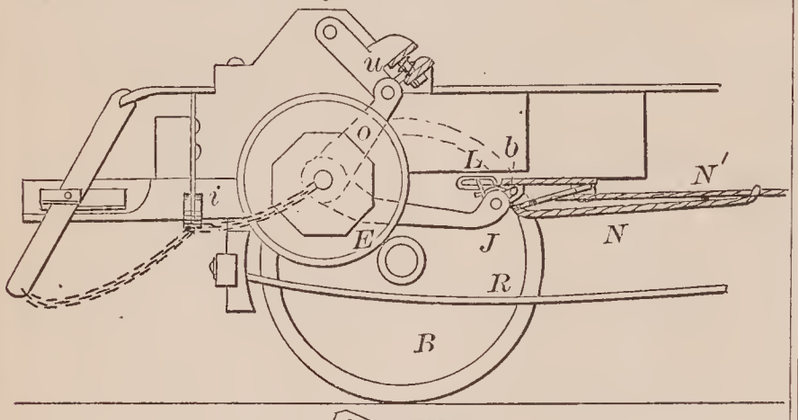
74239—*Continued.*

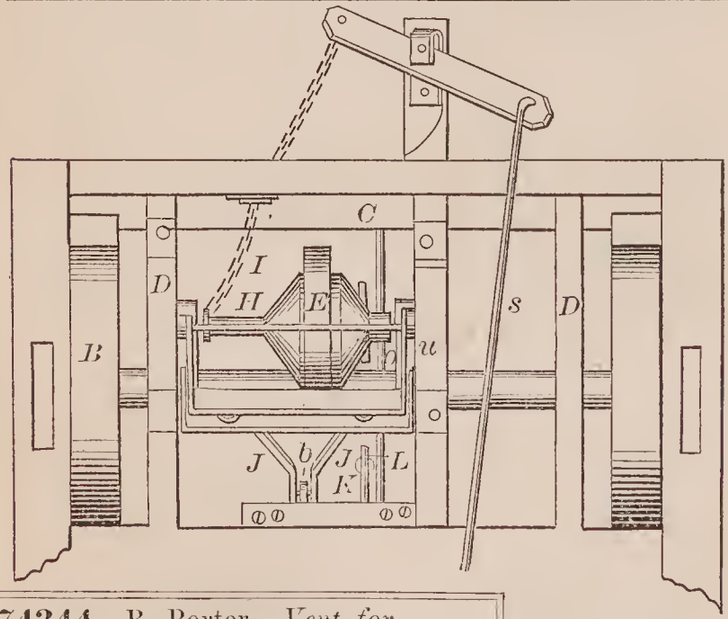


74242—Payne & Vandecar—*Cotton Picker.*



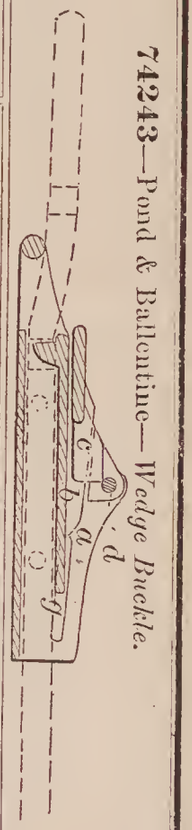
74240—Moore & Gary—*Car Brake.*



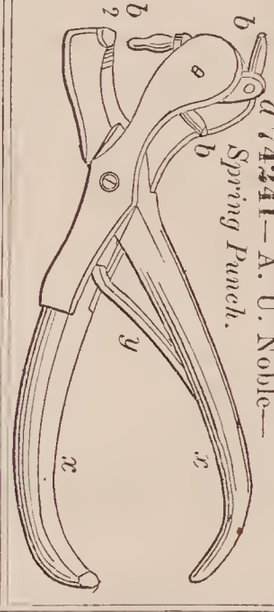


74246—C. Quartley—*Cigar.*

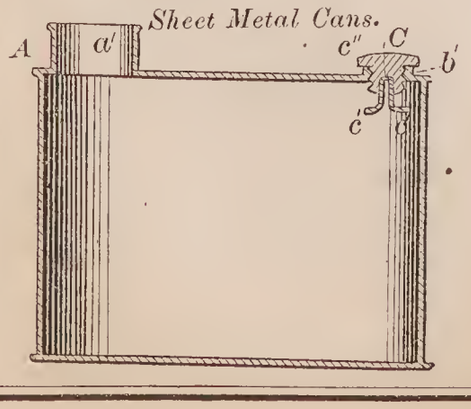
74243—Pond & Ballentine—*Wedge Buckle.*



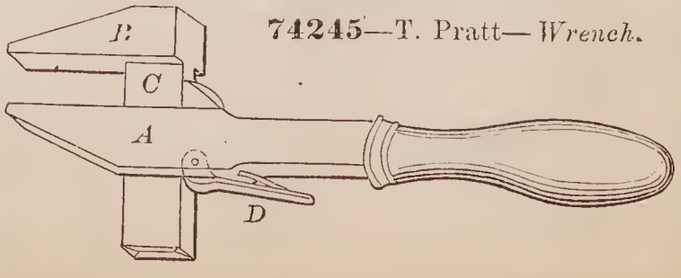
74241—A. U. Noble—*Spring Punch.*



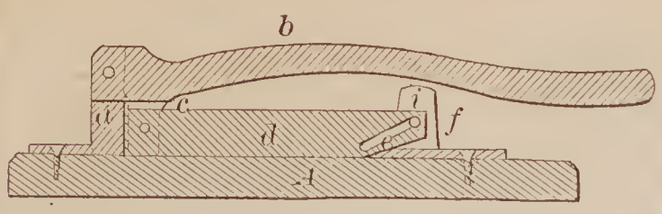
74244—R. Porter—*Vent for Sheet Metal Cans.*



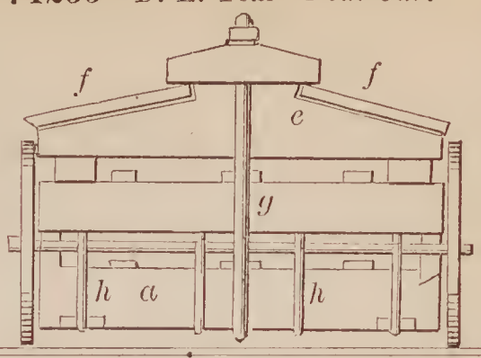
74245—T. Pratt—*Wrench.*



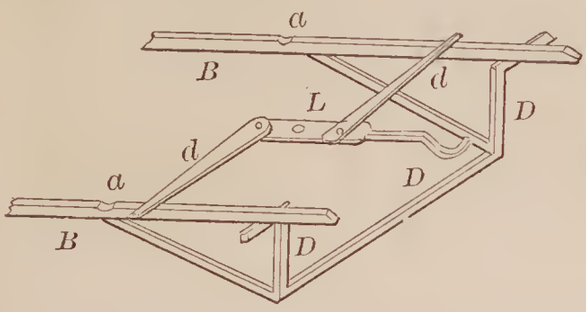
74248—D. T. Robinson—*For Cutting Tobacco.*



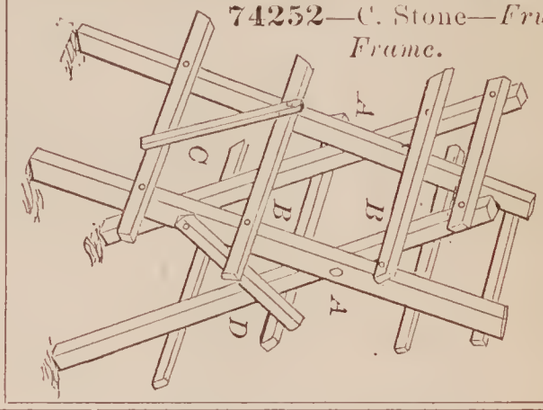
74255—D. E. Teal—*Peat Car.*



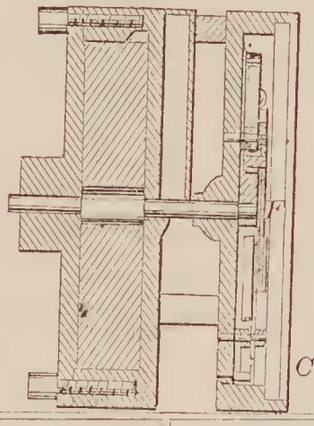
74251—G. R. & C. H. Sneath—*Tilting Wagon.*



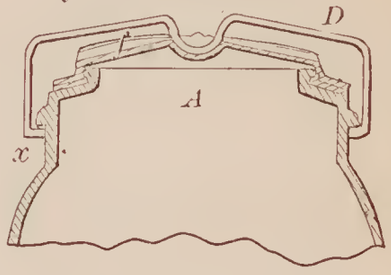
74252—C. Stone—*Fruit Frame.*



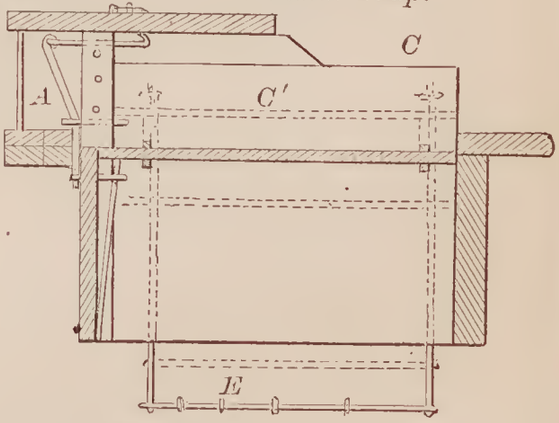
74254—J. Taggart—*Water Meter.*



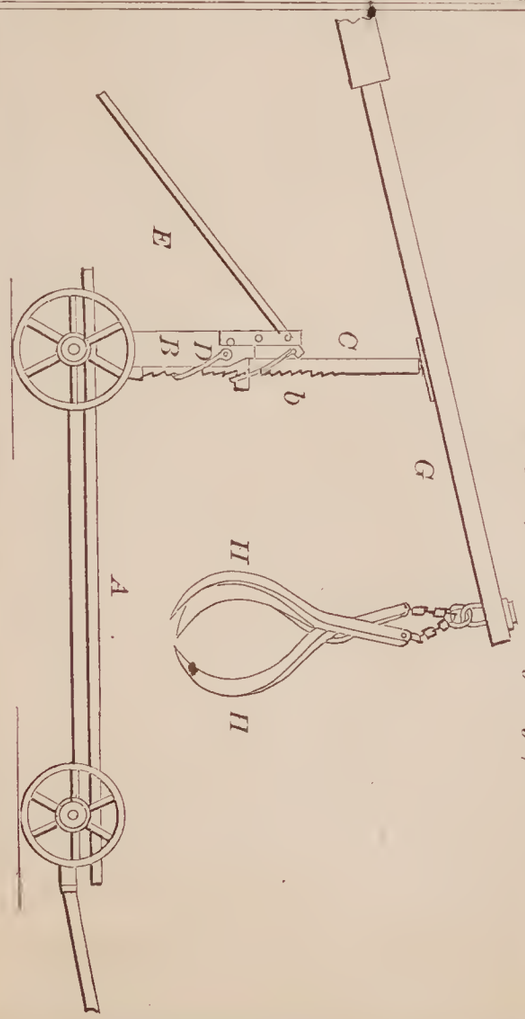
74249—S. B Rowley—*Cap for Preserve Jars.*



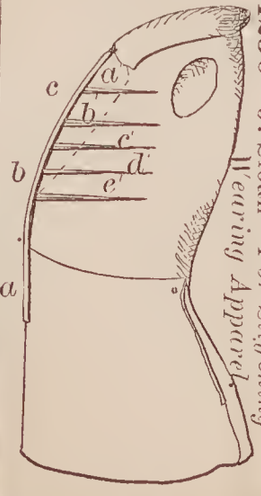
74256—A. C. Thomas—*Animal Trap.*



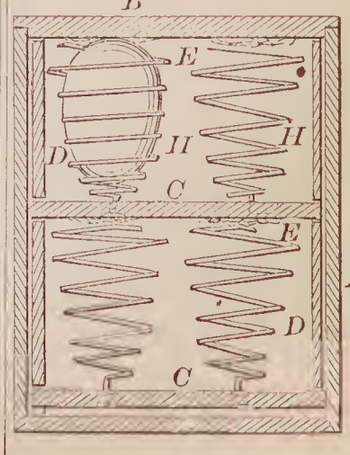
74253—J. Sutherland—*Wagon for Loading Logs, &c.*



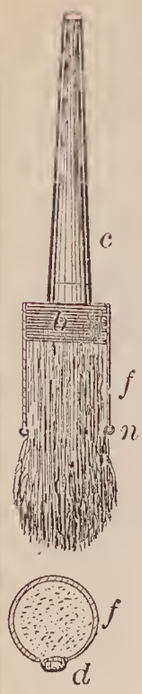
74250—J. Sloan—*For Stiffening Wearing Apparel.*



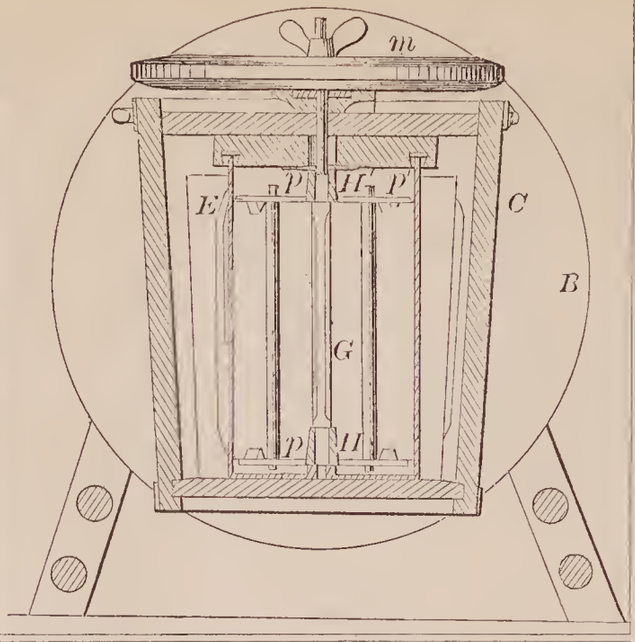
74257—A. Thomas—*Packing Eggs, &c.*



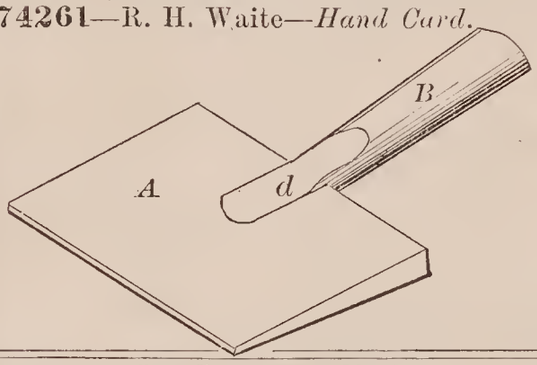
74258—J. S. Tilton—*Sleeve for Brushes.*



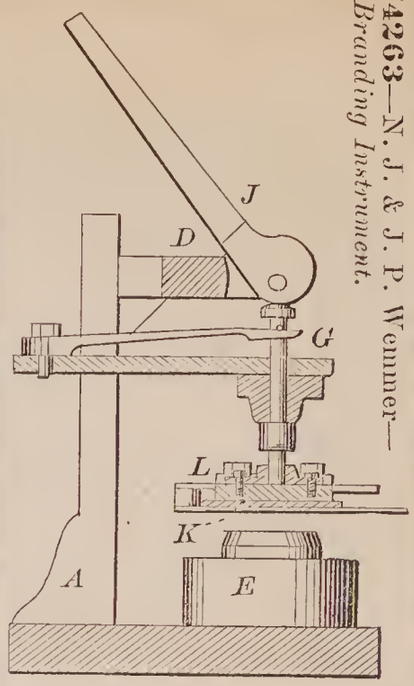
74259—J. Tingley—*Ice Cream Freezer.*

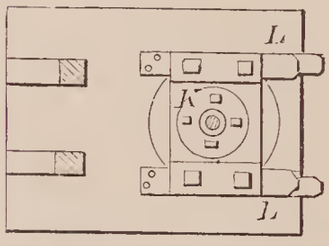


74261—R. H. Waite—*Hand Card.*

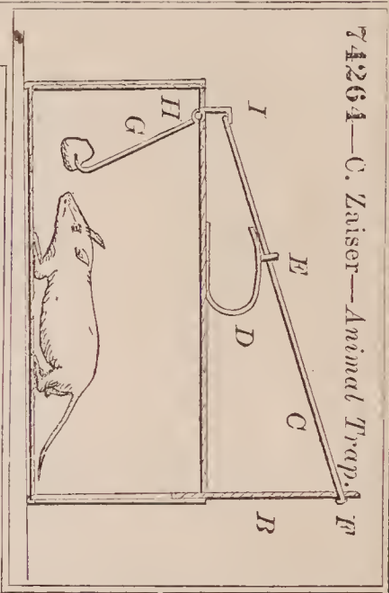


74263—N. J. & J. P. Wemmer—*Branding Instrument.*

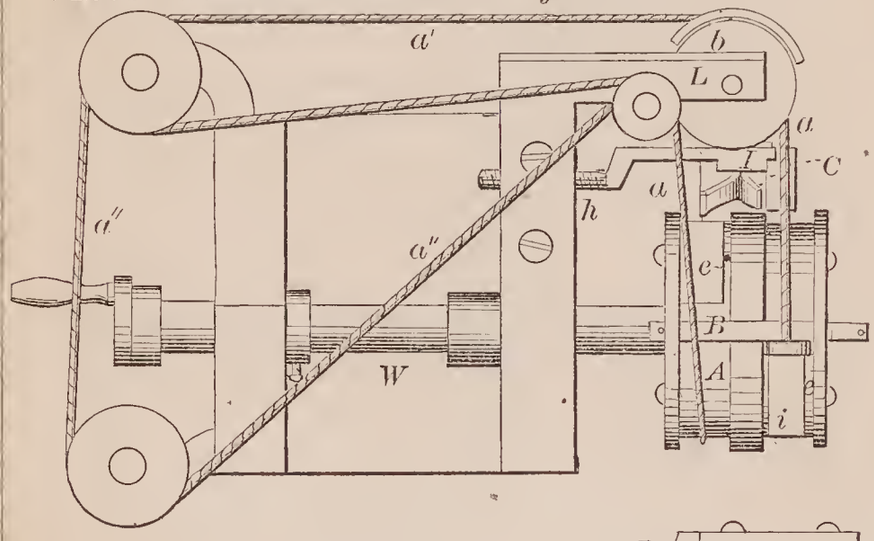


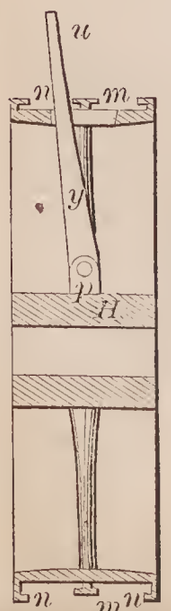


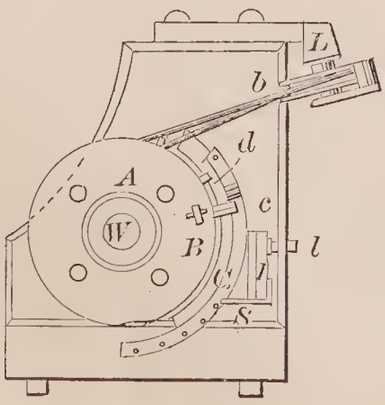
74264—C. Zaiser—*Animal Trap.*

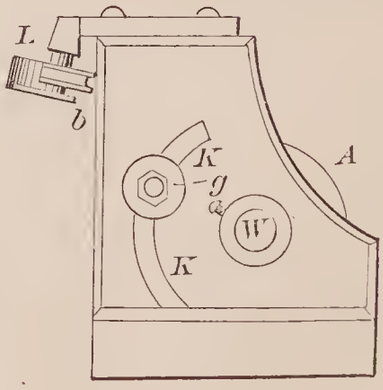


74265—W. H. Abel—*For Converting Motion.*



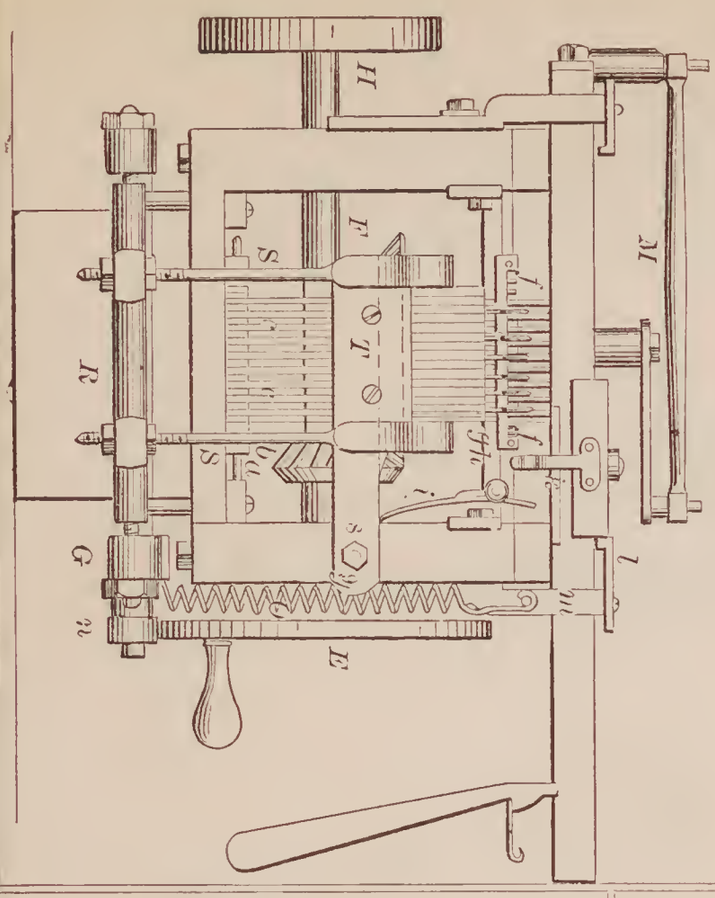




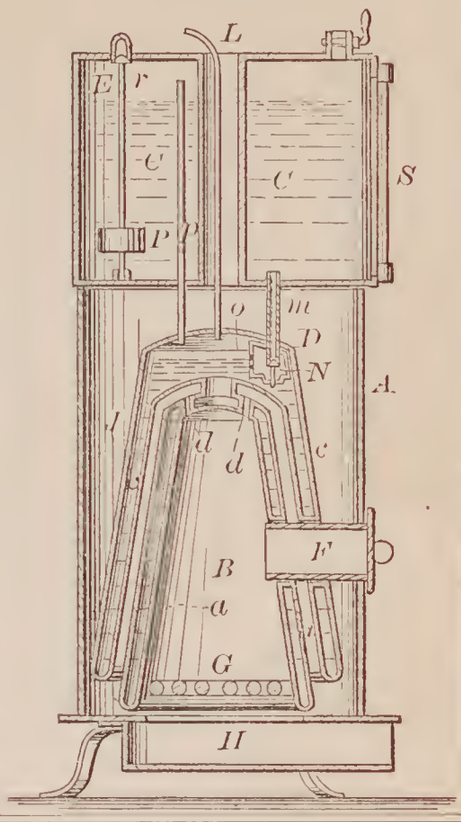


74262—O. H. Weed—*Bedstead Slat.*

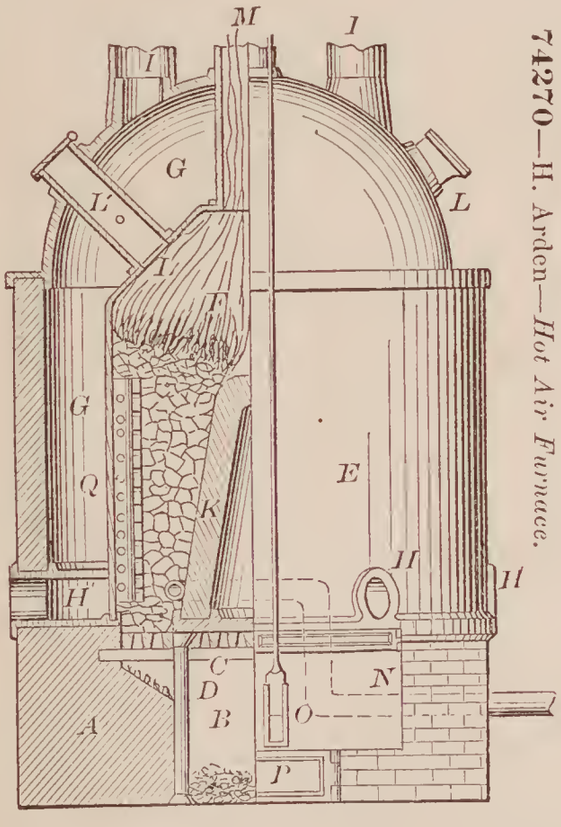
74266—W. H. Abel—*Knitting Machine.*



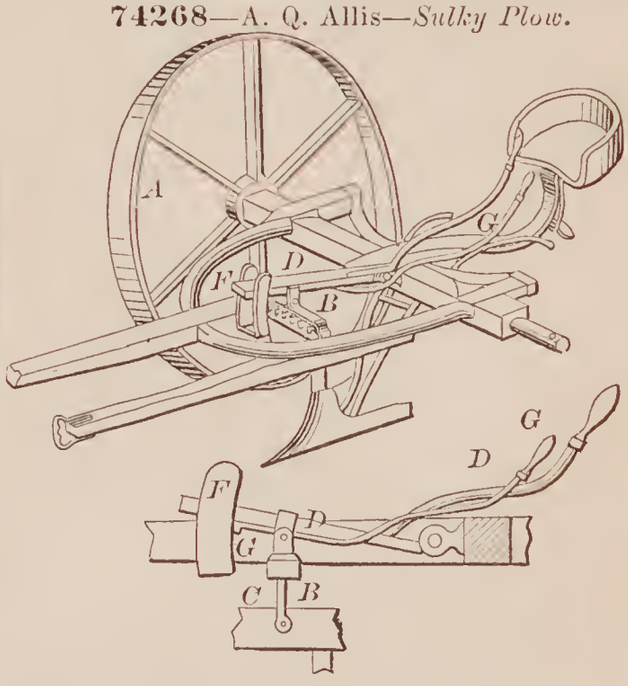
74269—V. D. Anderson—*Steam Generator.*



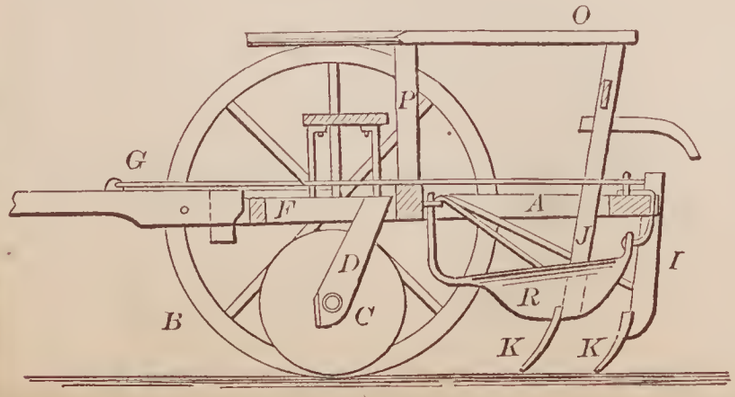
74270—H. Arden—*Hot Air Furnace.*



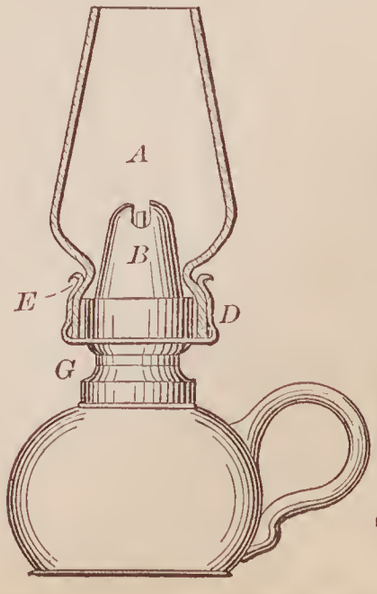
74268—A. Q. Allis—*Sulky Plow.*



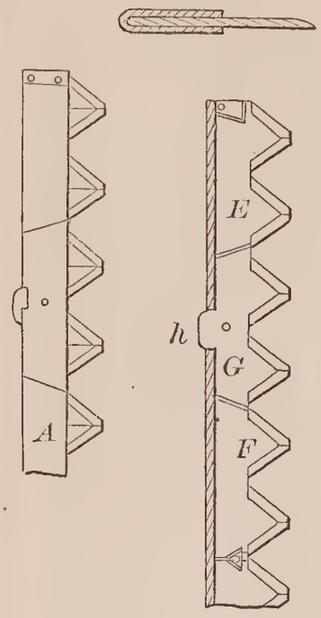
74267—J. A. Alley—*Plow and Roller.*



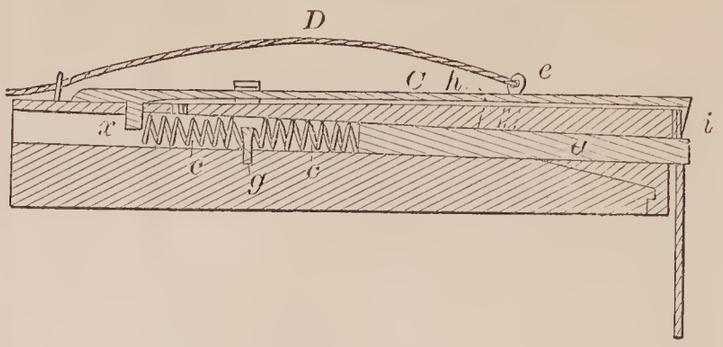
74271—Arnold & Blackman—*Lamp.*



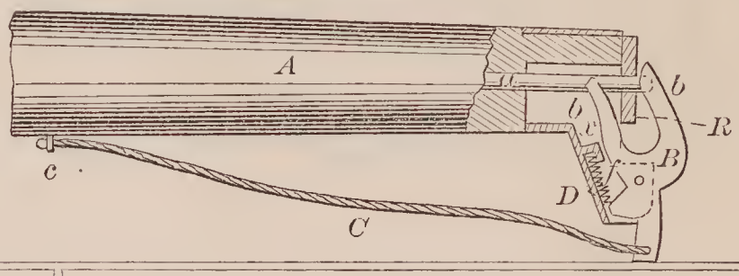
74272—J. Atkins—*Harvester Cutter.*



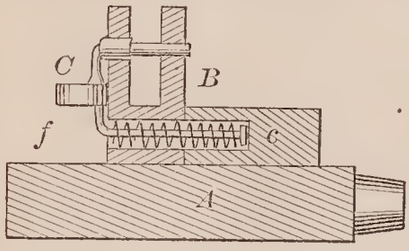
74273—D. Austin—*Whiffletree.*



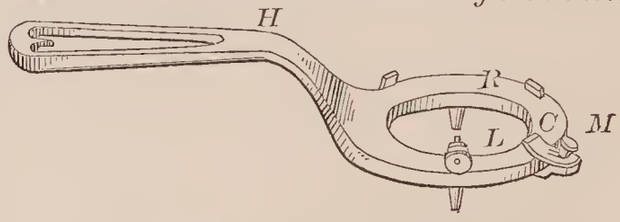
74274—D. Austin—*Whiffletree Tug.*



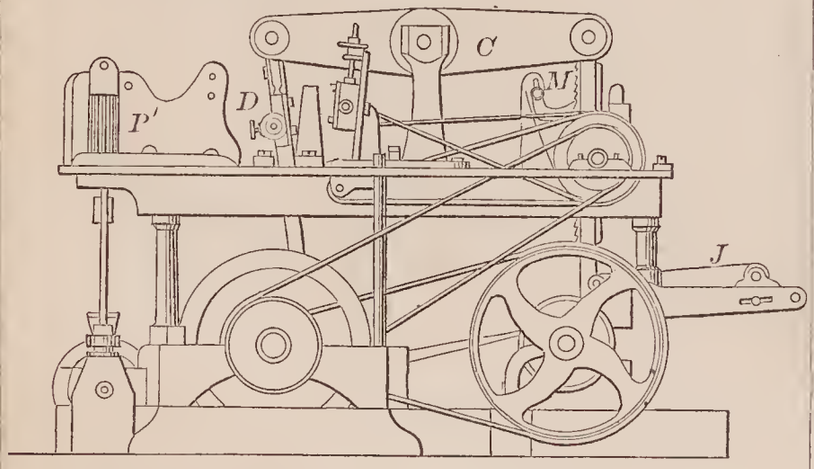
74275—D. Austin—*Shaft Coupling.*

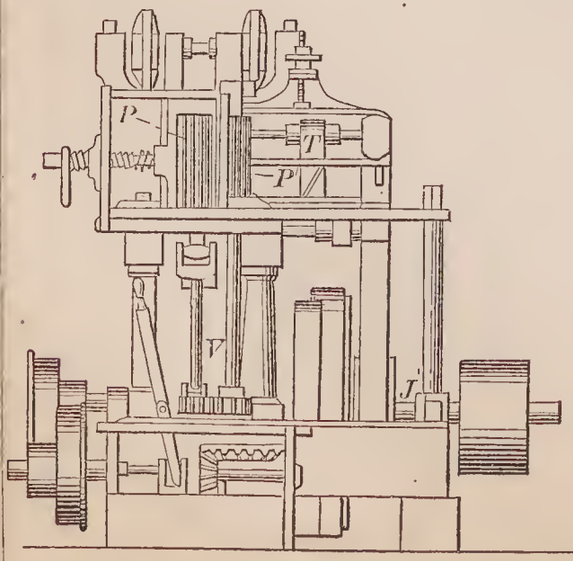


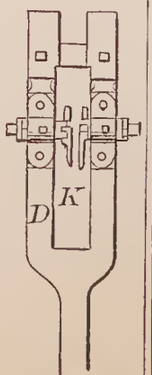
74276—Bacon & Clark—*Blacking Box Holder.*



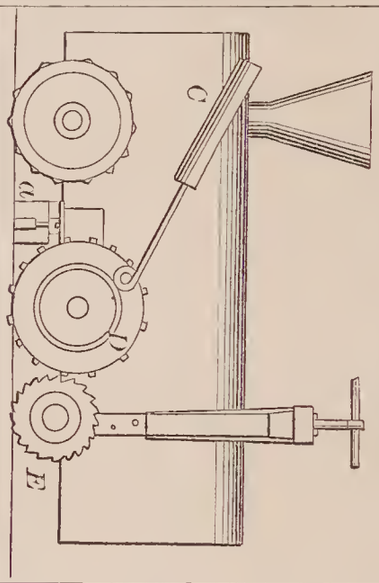
74277—J. Baillie—*Saw Mill.*



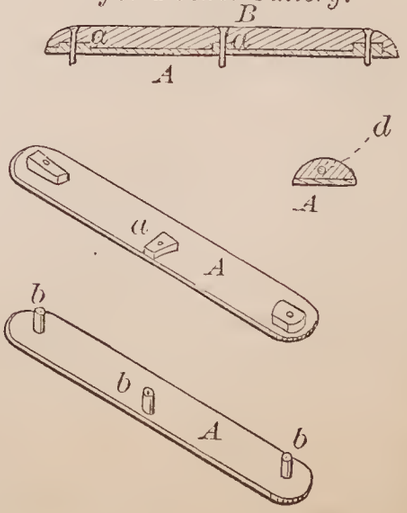




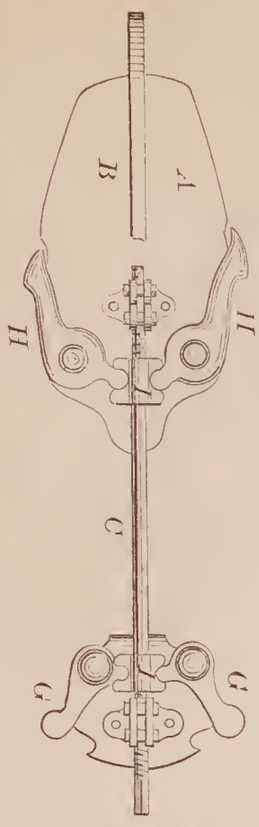
74278—J. Baker—*For Cutting Ice.*



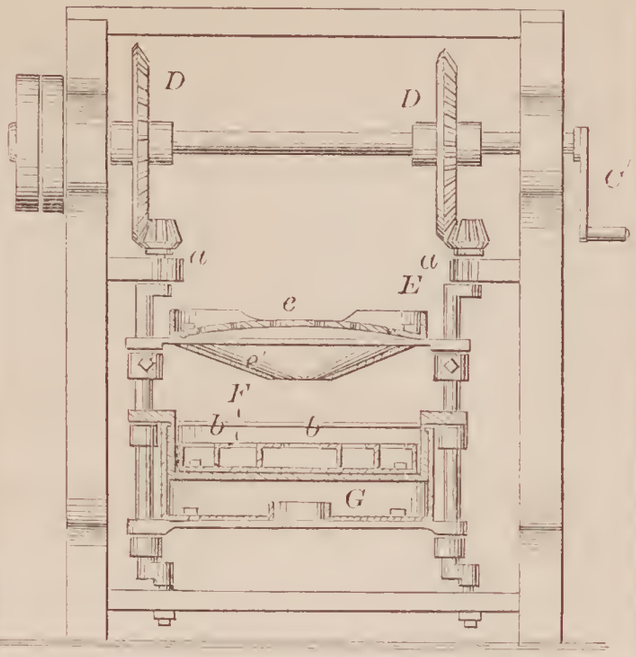
74279—S. Barnes—*Handle for Pocket Cutlery.*



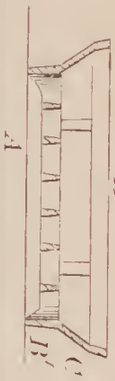
74280—P. G. Beckley—*Skate.*



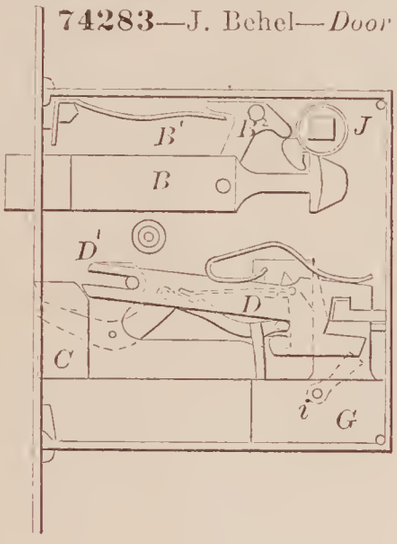
74281—S. L. Beckwith—*For Washing Gold Ore.*

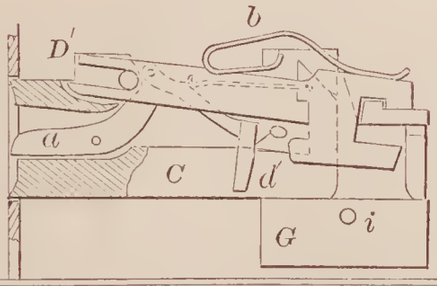


74282—C. H. Beeman, 2d—*Potato Baker.*

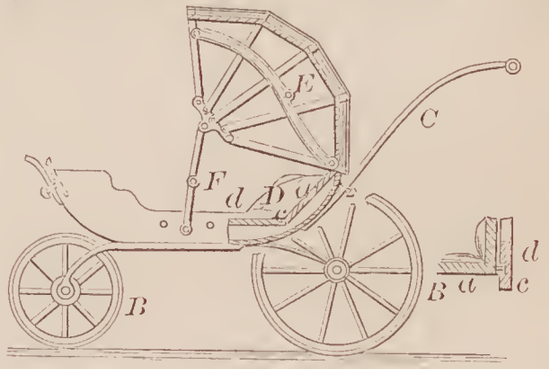


74283—J. Behel—*Door Lock.*

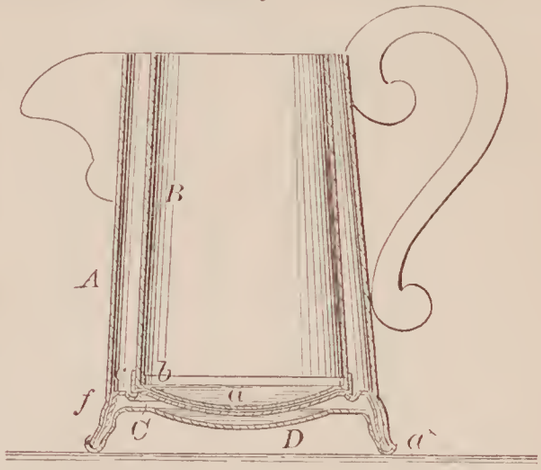




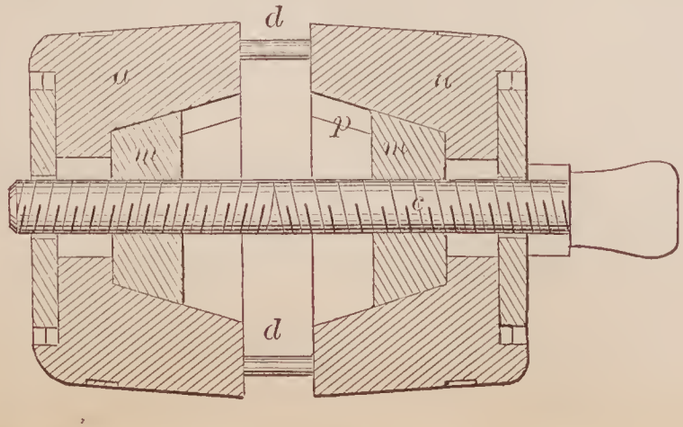
74284—Bein & Ulrich—*Children's Carriage.*



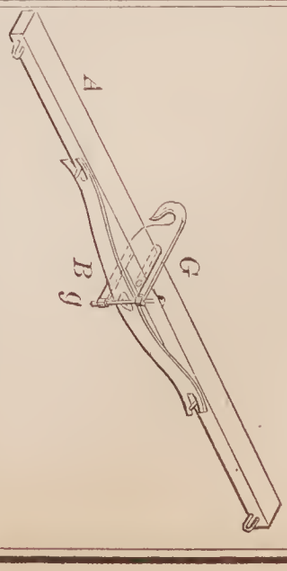
74285—W. Bellamy—*Ice Pitcher.*



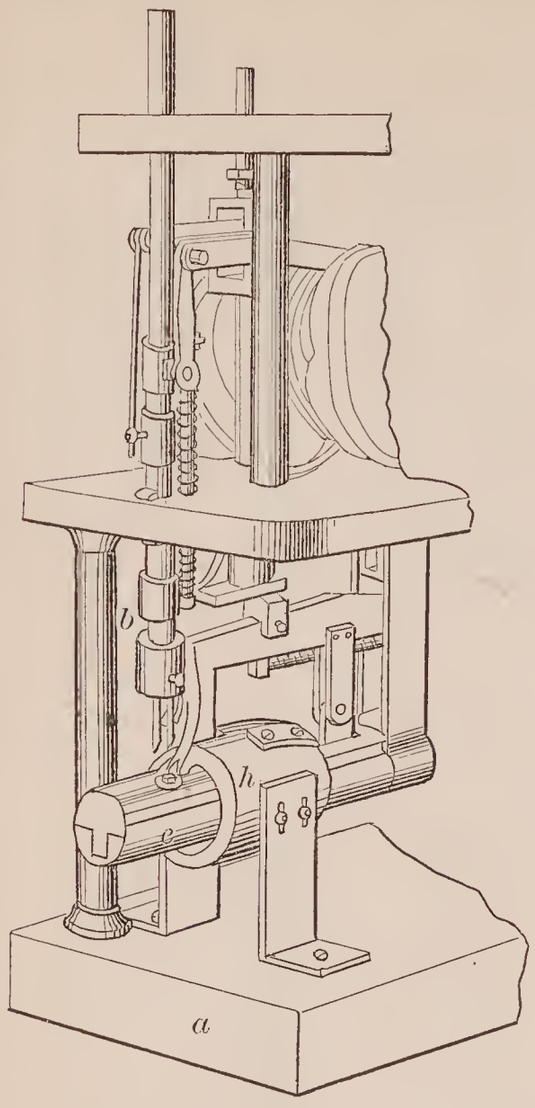
74286—E. W. L. Bellander—*Forming Block for Muffs.*



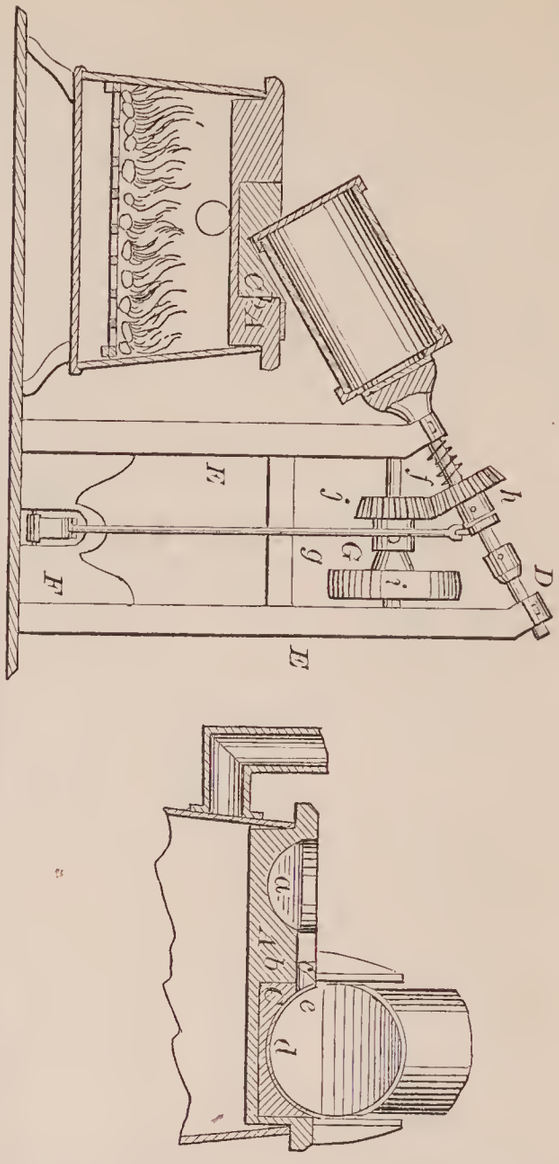
74287—L. G. Binkly—*Whiffletree.*



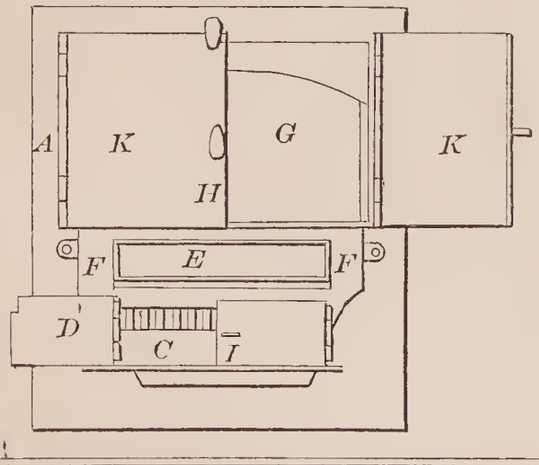
74289—L. R. Blake—*Sewing Machine.*



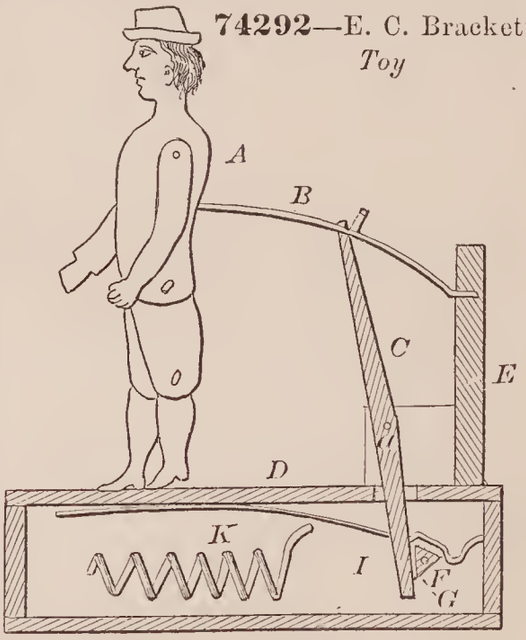
74290—J. G. Borden—*For Soldering Tin Cans.*



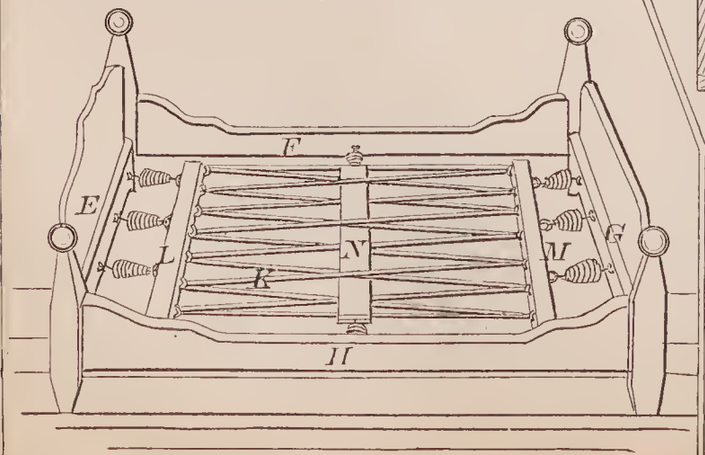
74291—D. K. Boswell—*Range.*



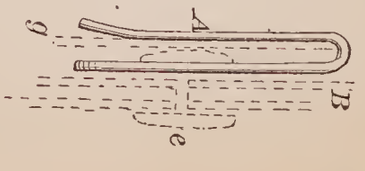
74292—E. C. Brackett—*Toy*



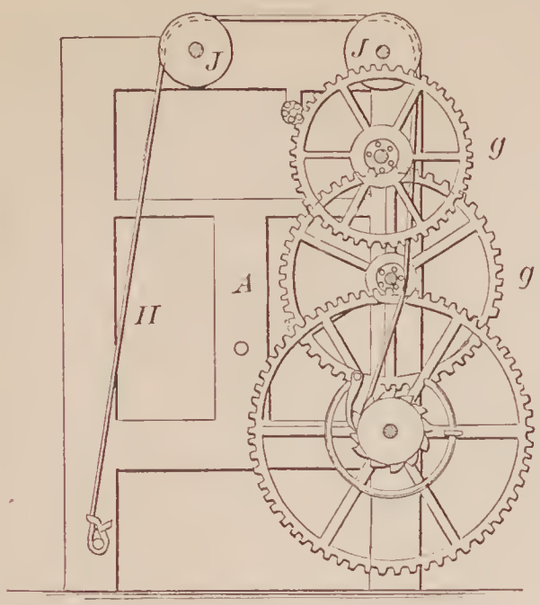
74293—F. S. Bradley—*Bed Bottom.*



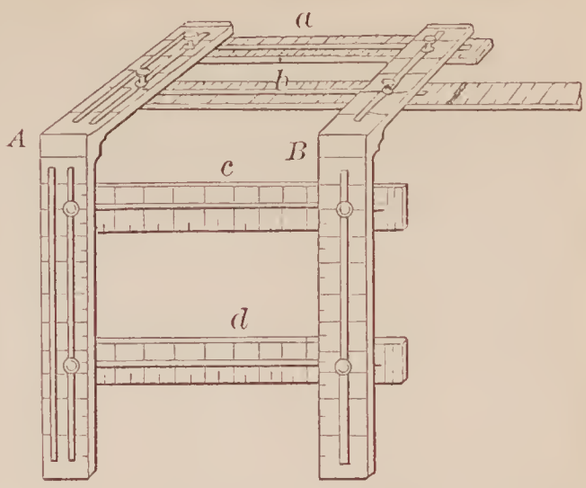
74294—F. H. Brown—*Necktie Holder.*



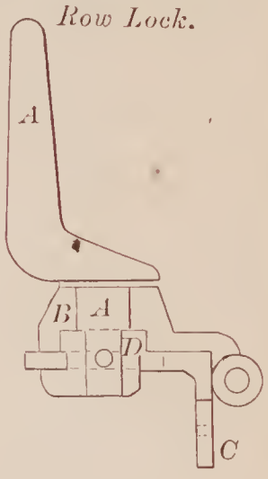
74295—I. W. Brown—*Motive Power.*



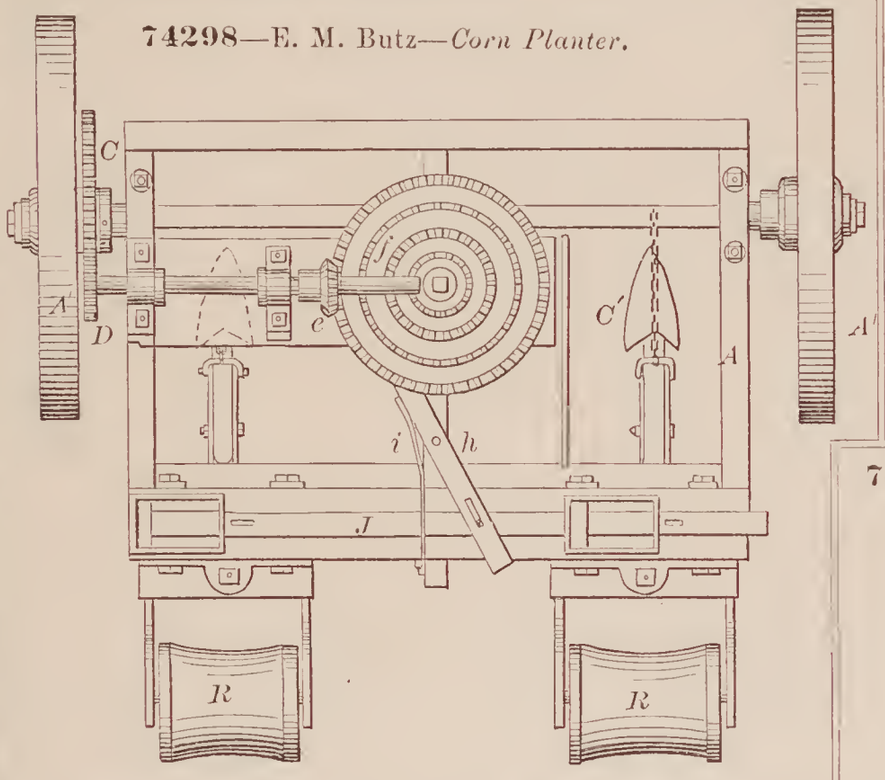
74297—N. W. Burnett—*Pattern Square.*



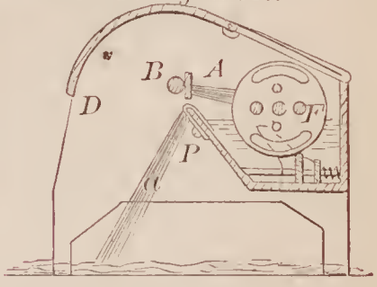
74296—G. W. Browne—*Row Lock.*



74298—E. M. Butz—*Corn Planter.*

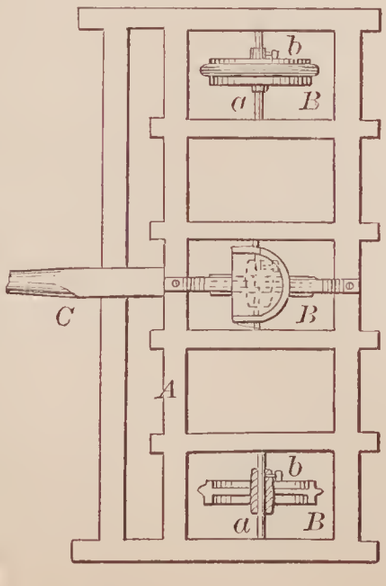


74300—T. A. Campbell—*For Oiling Wool.*

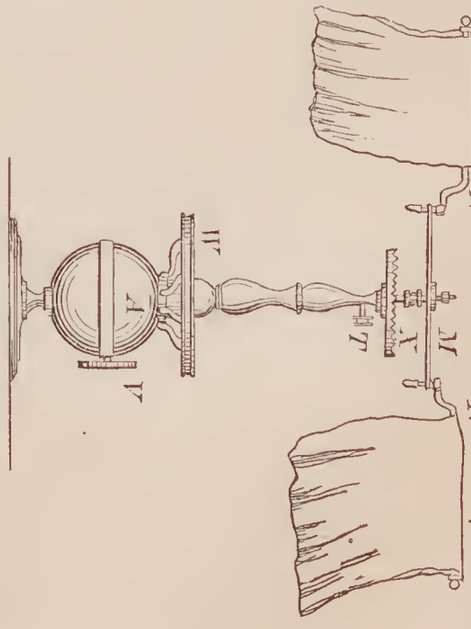


74301—C. E Candee—*Paper Clip.*

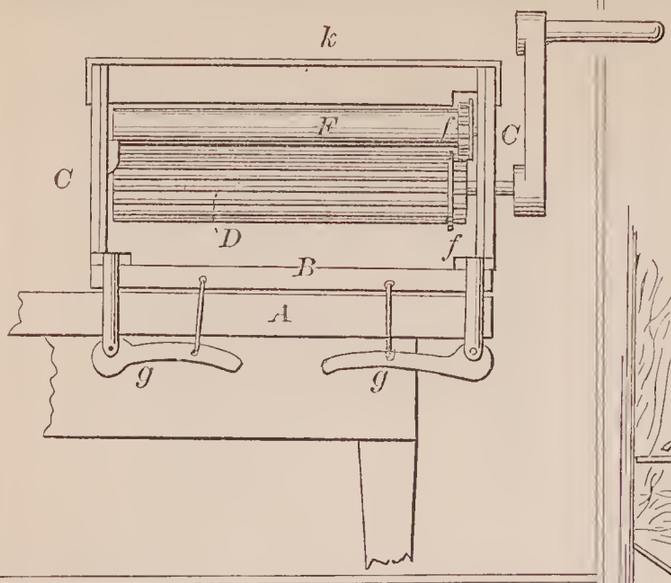
74302—J. M. Canterbury—*Field Marker.*



74303—T. W. Carmichael—*Fan, Table Caster, and Lamp Stand.*

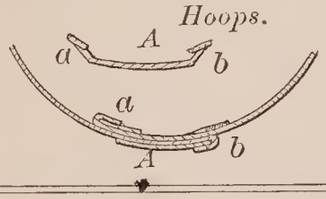


74304—A Castellaw—*Steak Crusher.*

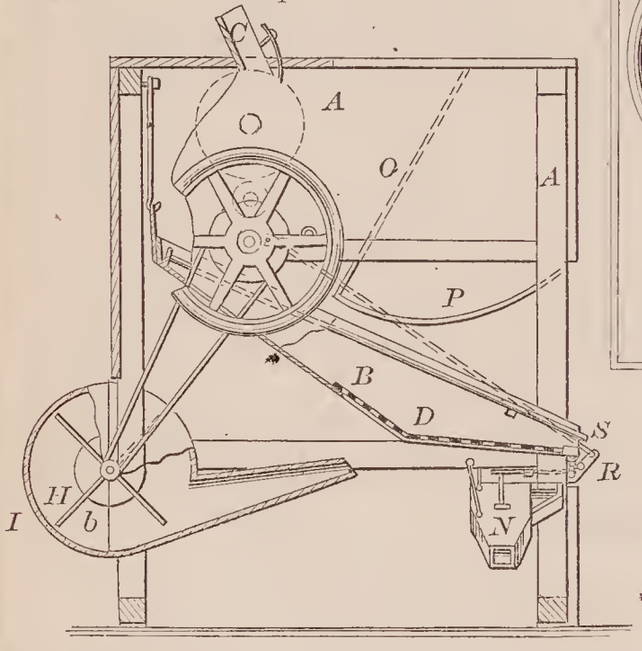


74305—J. Chase—*Lock for Barrel Hoops.*

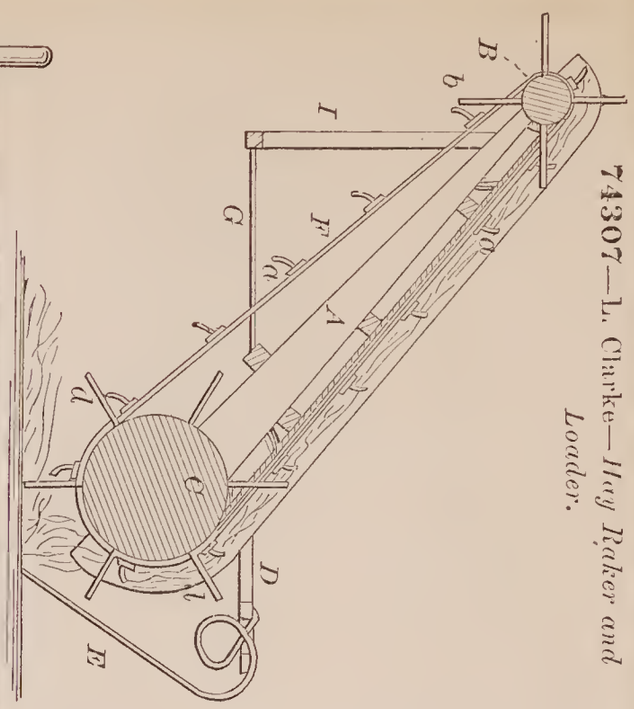
Hoops.



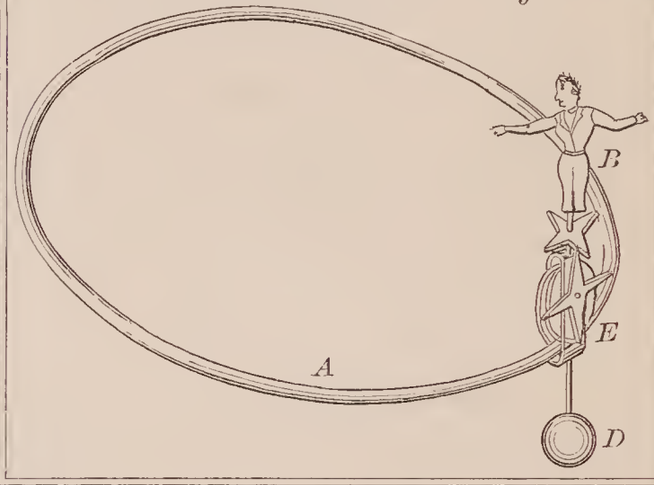
74306—P. C. Chipson—*Corn Sheller*

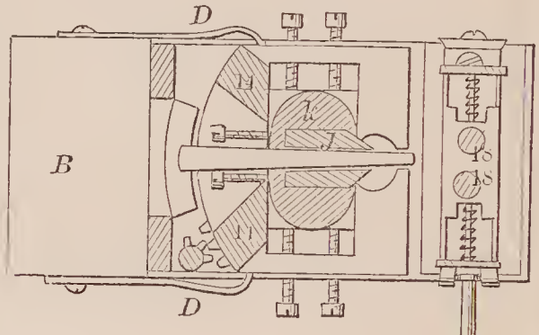


74307—L. Clarke—*Hay Raker and Loader.*

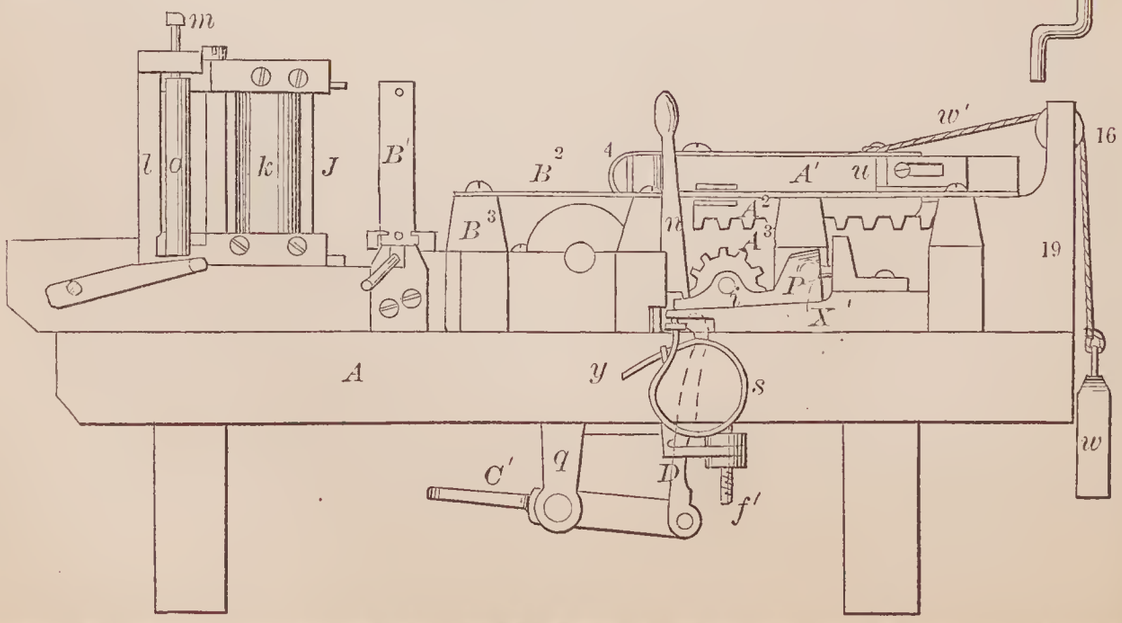


74308—E. T. Colburn—*Child's Toy.*

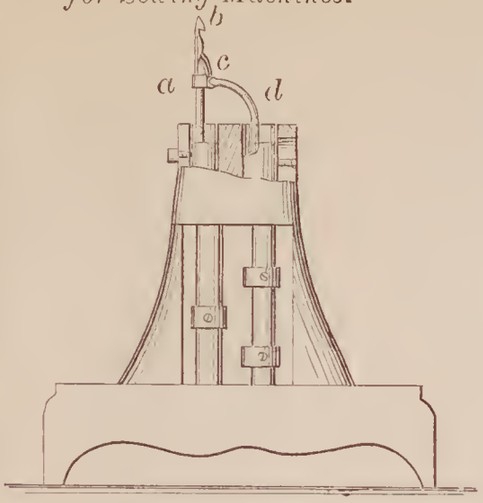




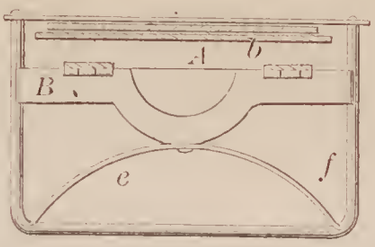
74309—W. S. Colwell—*For Dressing Staves.*



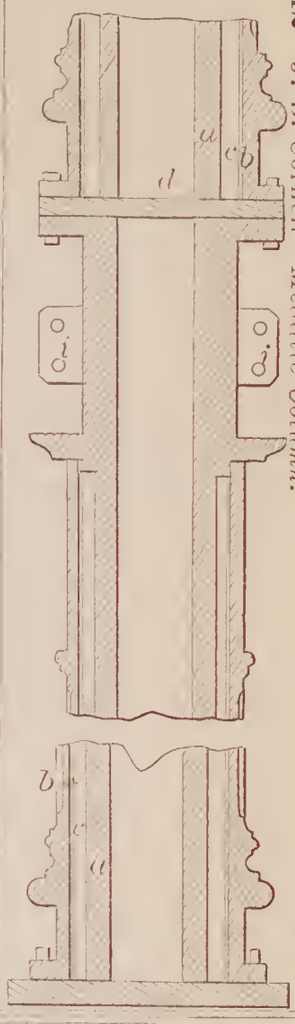
74310—E. M. Comery—*Cast-off for Sewing Machines.*



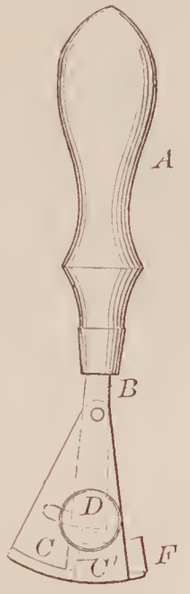
74311—Conant & Manley—*Photographic Printing Frame.*



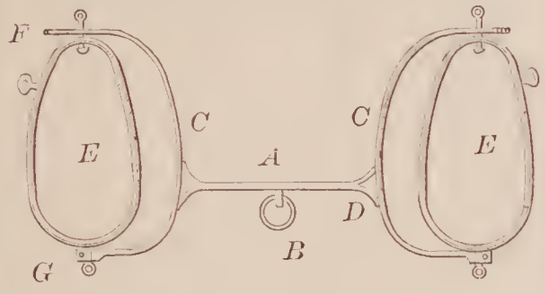
74312—J. B. Cornell—*Metallic Column.*



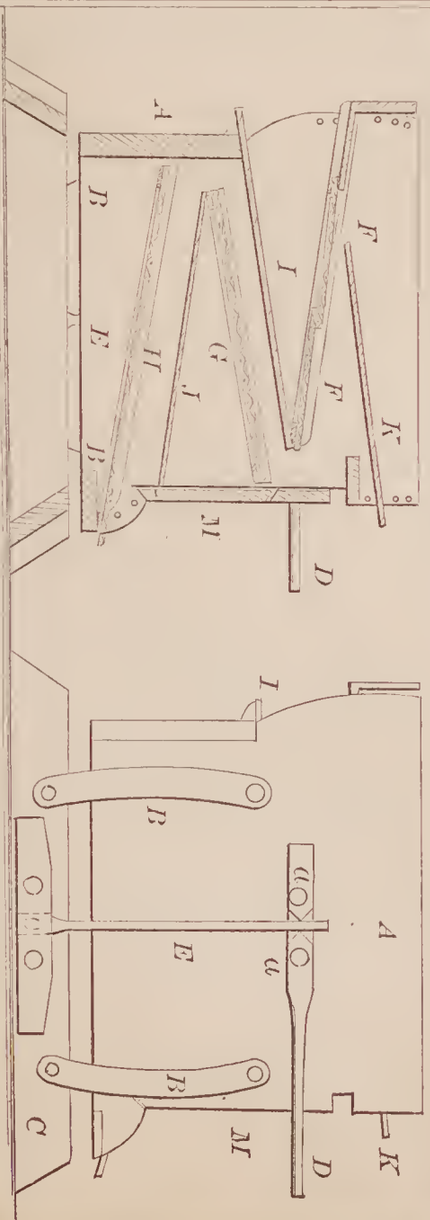
74315—J. S. Crane—*Button Hole Cutter.*



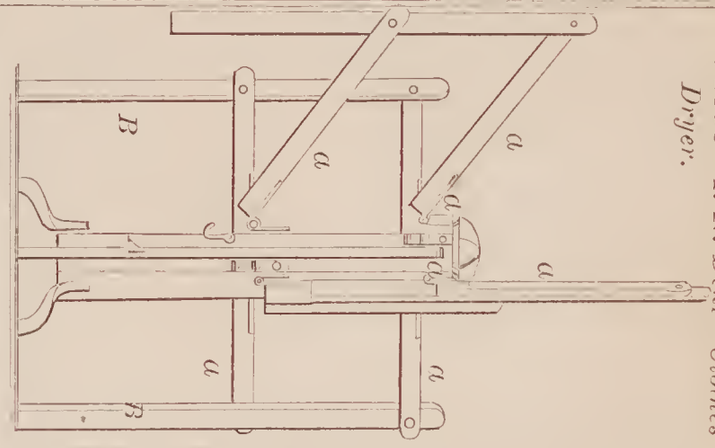
74316—E. K. Croffut—*Horse Yoke.*



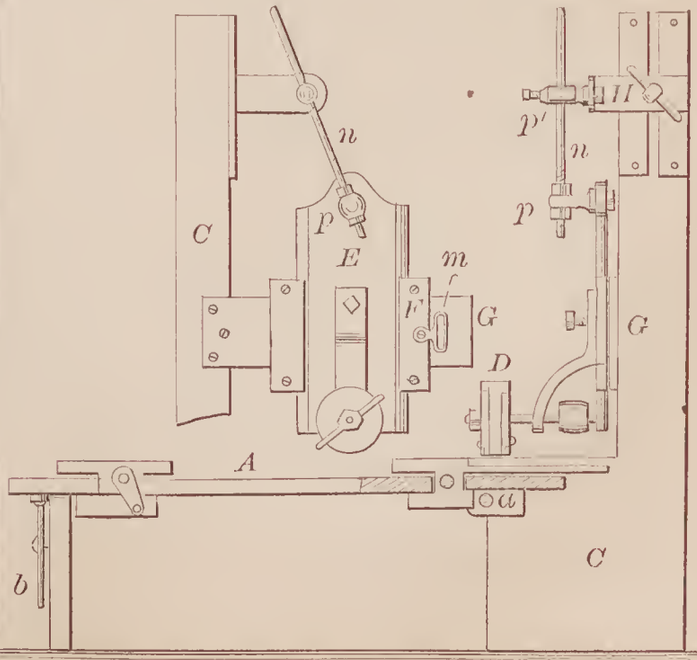
74313—J. Corson—*Grain Sieve.*



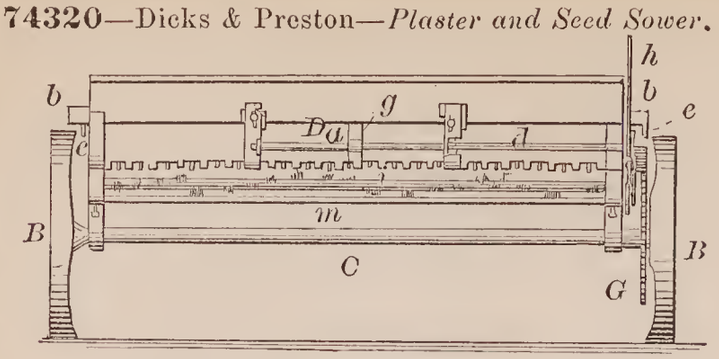
74318—I. N. Deal—*Clothes Dryer.*



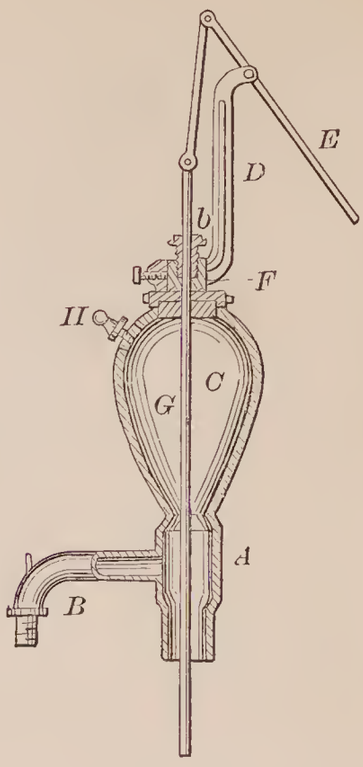
74319—De Bus & Johnson—*For Crozing Barrels.*



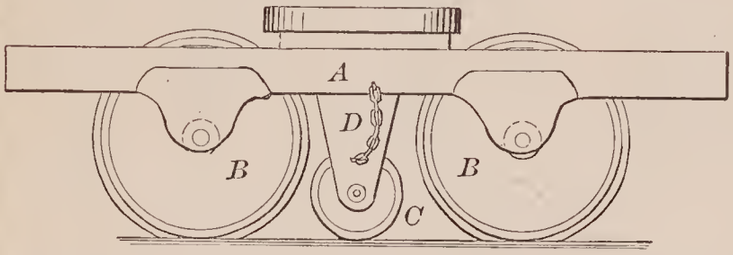
74320—Dicks & Preston—*Plaster and Seed Sower.*



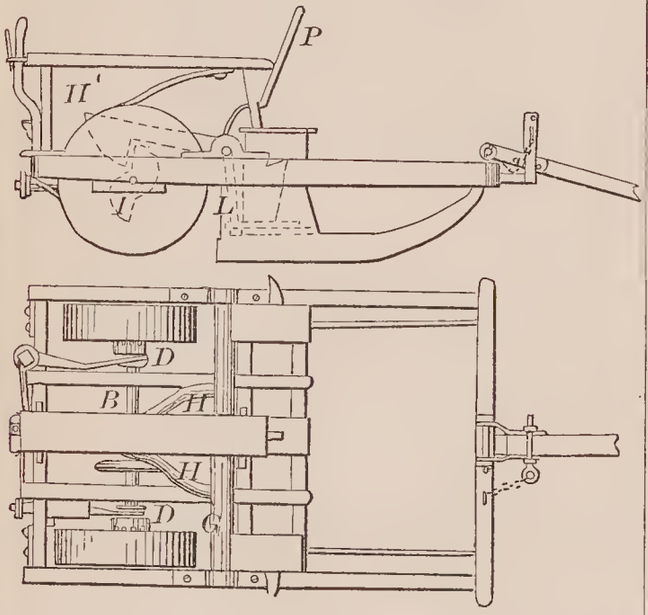
74321—J. W. Douglas—*Pump.*



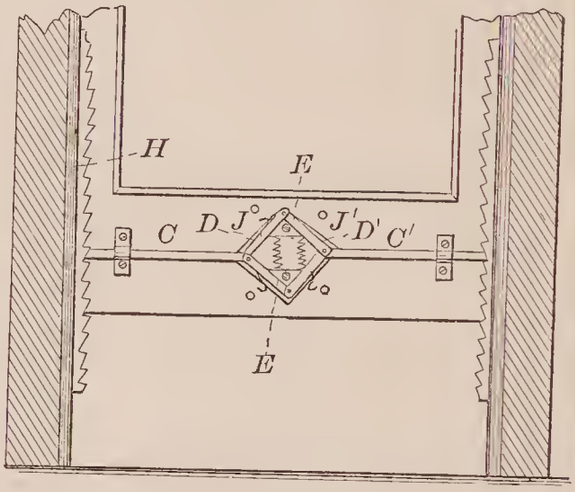
74325—G. W. Eddy—*Railway Car.*



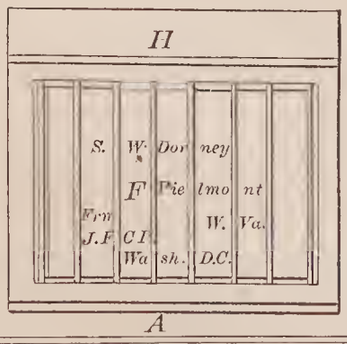
74326—P. Eidmann—*Corn Planter.*



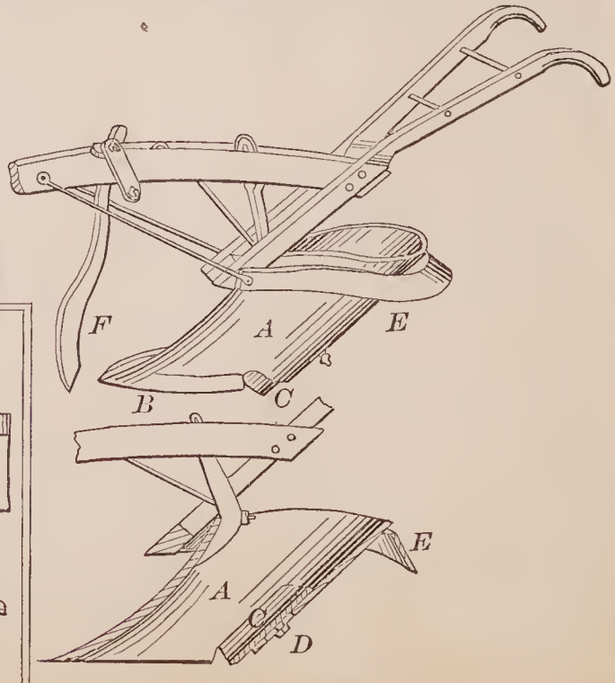
74324—A. R. Dyett—*Window Sash Stop.*



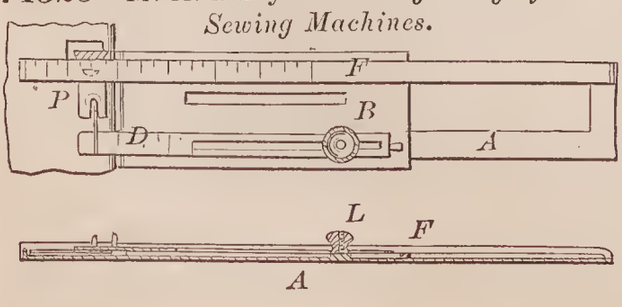
74322—S. W. Downey—*Trunk Label.*



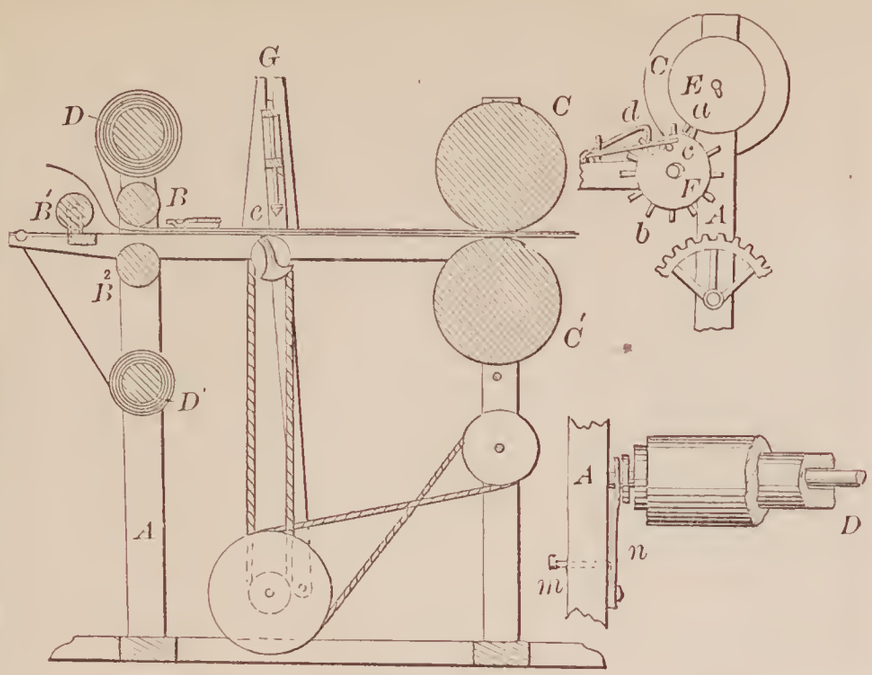
74327—W. P. Everdon—*Plow.*



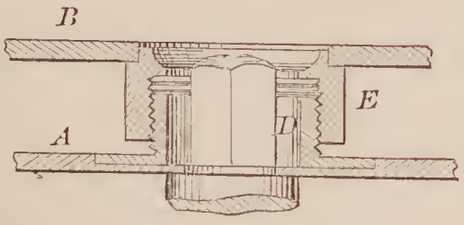
74323—M. A. Duffy—*Marking Gauge for Sewing Machines.*

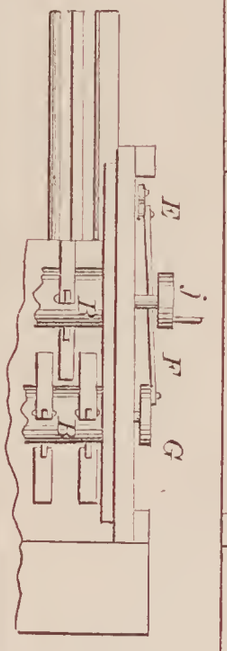


74328—J. F. Fales—*For Sewing Carpet Lining.*

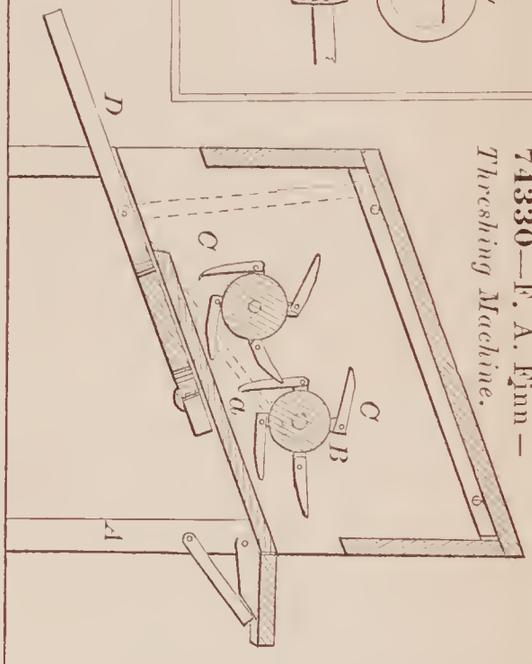


74329—W. Fenimore—*Dust Cup for Watches.*

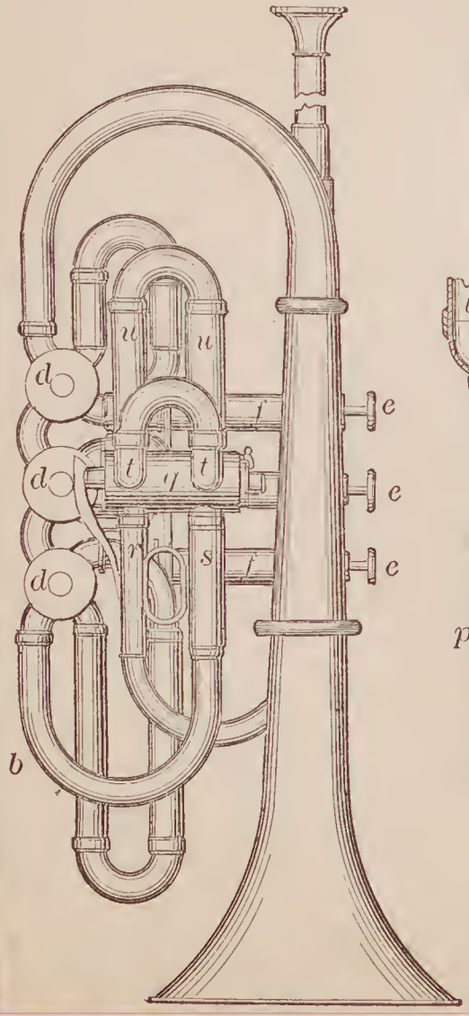


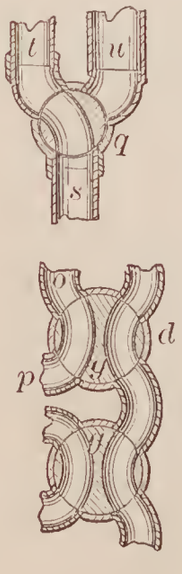


74330—F. A. Finn—*Threshing Machine.*

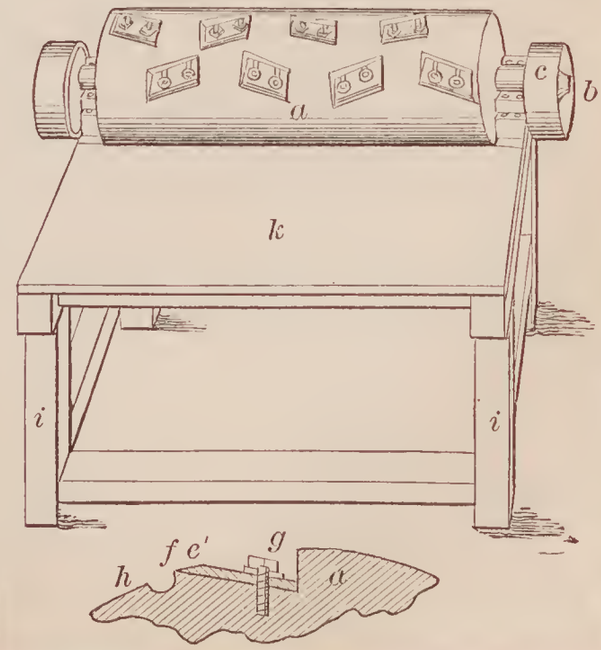


74331—I. Fiske—*Cornet, &c.*

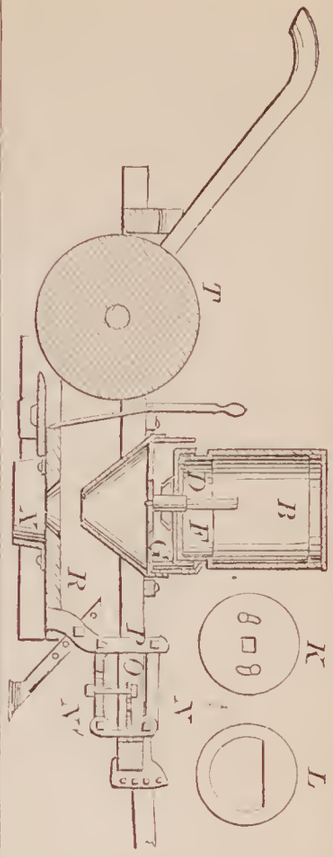




74333—M. R. Fletcher—*Planing Machine.*

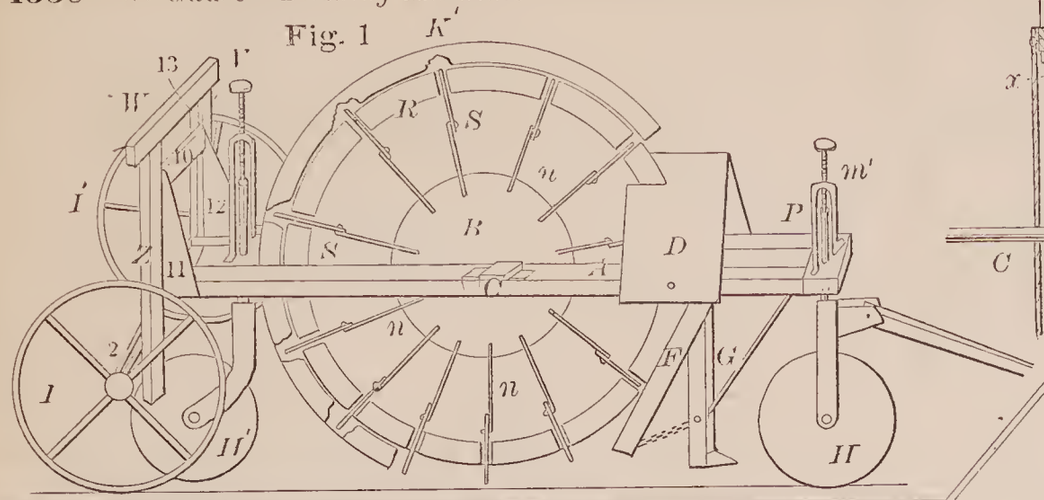


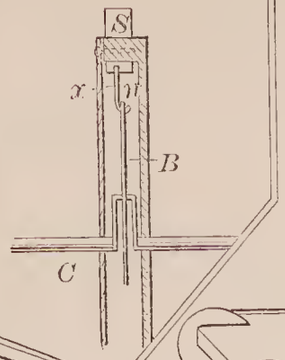
74334—N. Foster—*Cotton Seed and Corn Planter.*

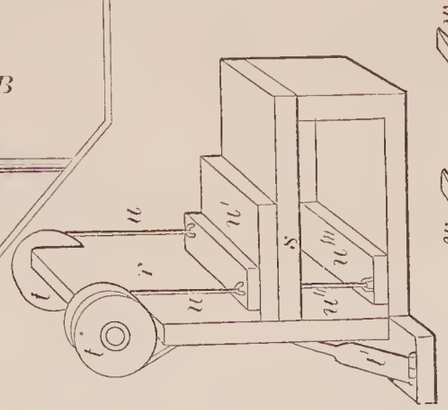


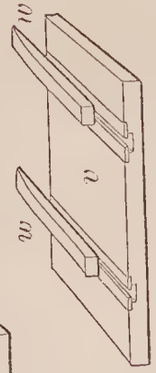
74338—W. Gause—*Ditching Machine.*

Fig. 1

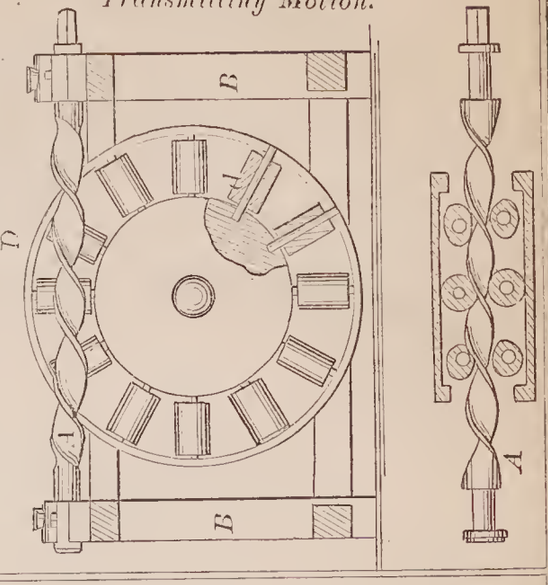




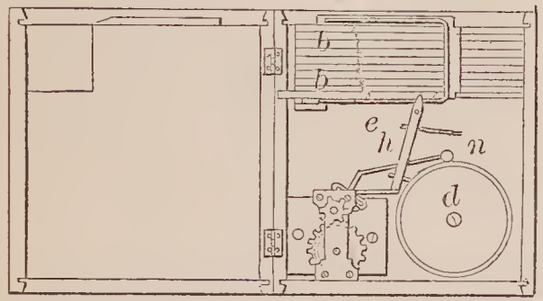


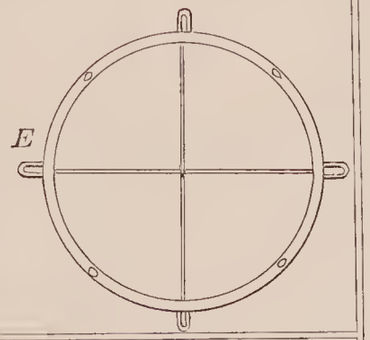


74337—E. Gallagher—*For Transmitting Motion.*

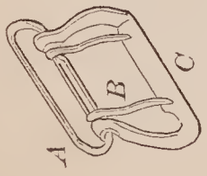


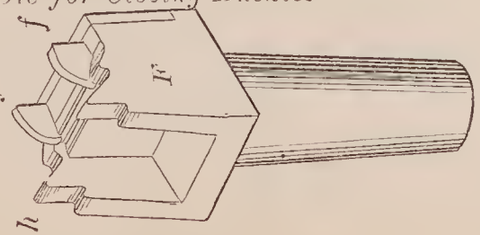
74339—Gauweiler & Stengel—*Fire Alarm.*

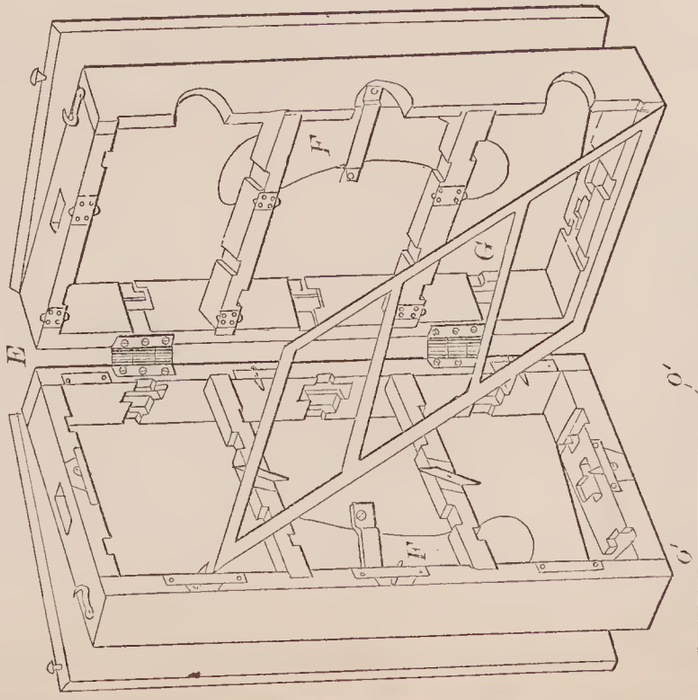




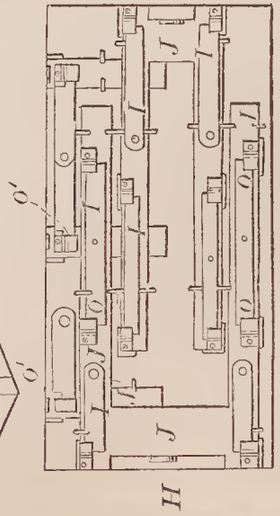
74335—M. Fowler—*Die for Closing Buckles*







74336—J. Franke—*For Cutting and Pasting Photographs,*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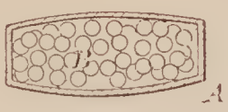
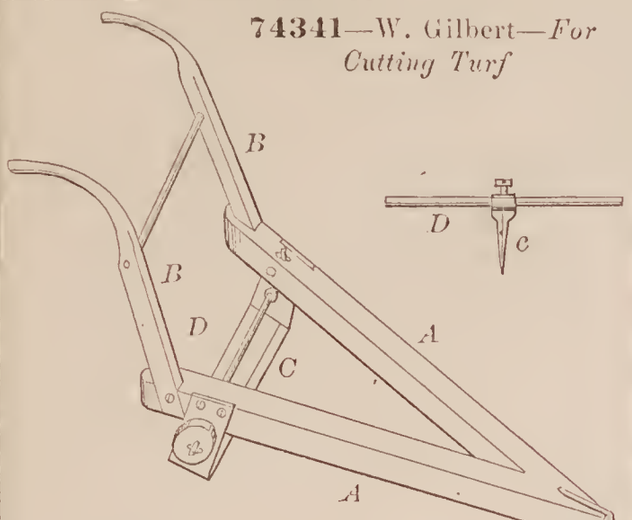
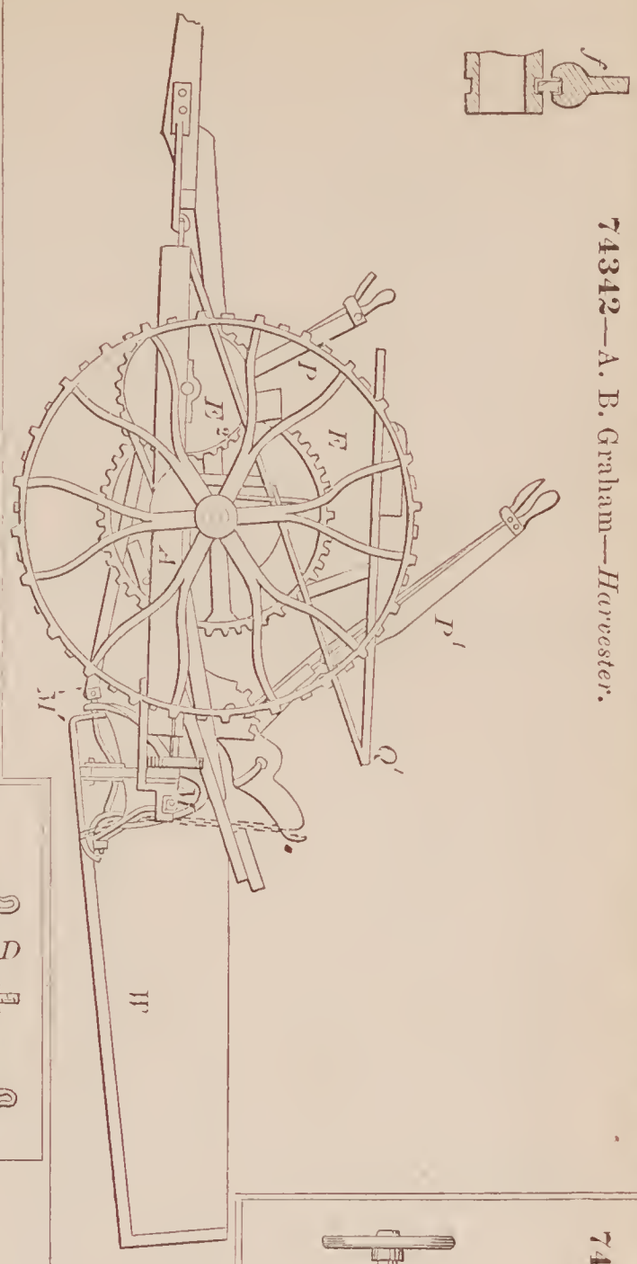
74340—J. M. Gilbert—*Stuffing for Mattresses, &c*



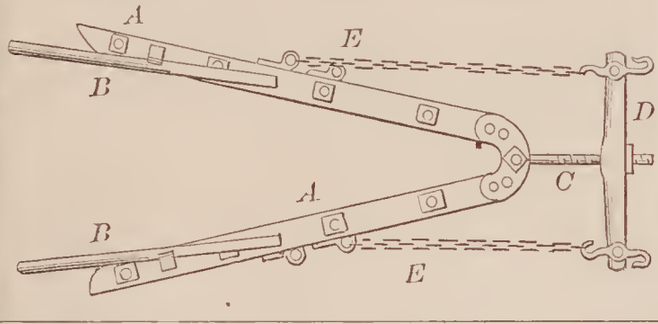
74341—W. Gilbert—*For Cutting Turf*



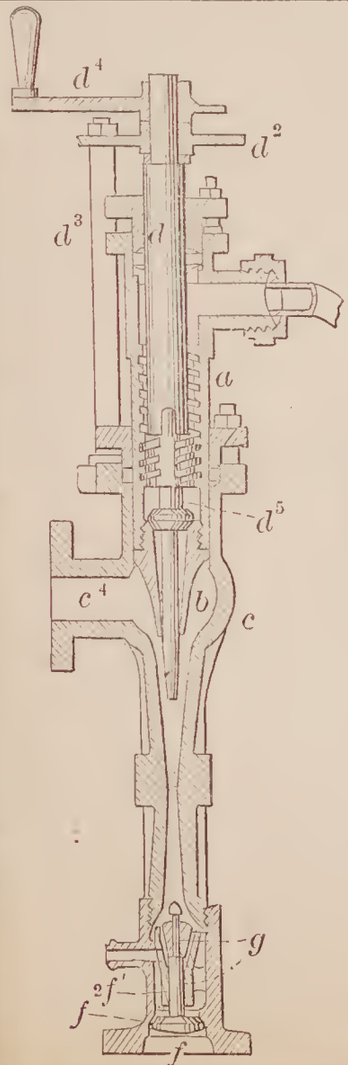
74342—A. B. Graham—*Harvester.*



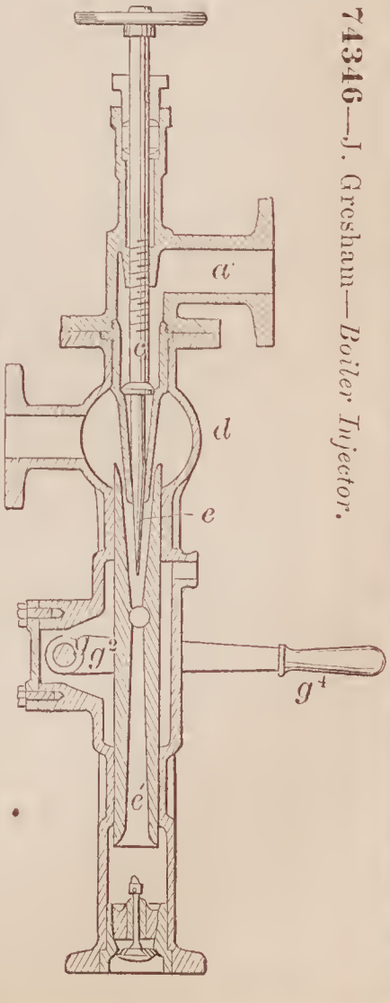
74344—Green & Sommer—*Cultivator.*



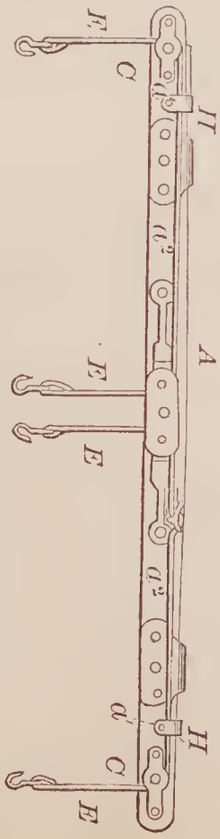
74345—J. Gresham—*Boiler Injector.*



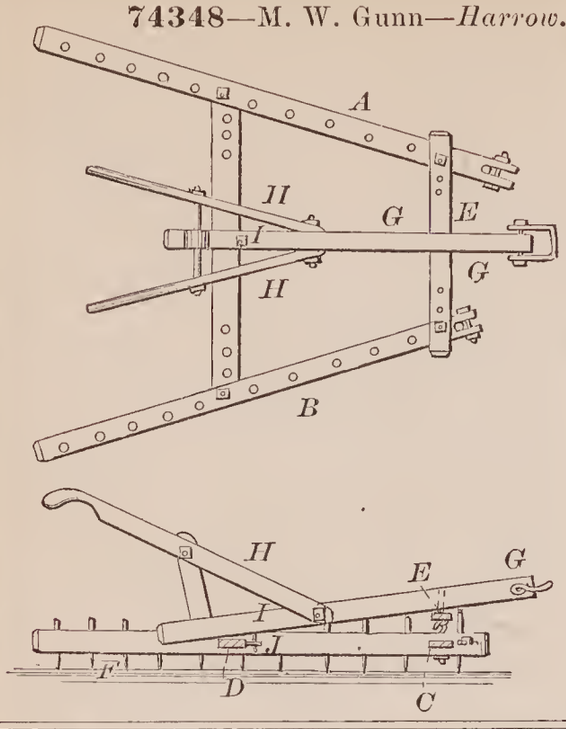
74346—J. Gresham—*Boiler Injector.*



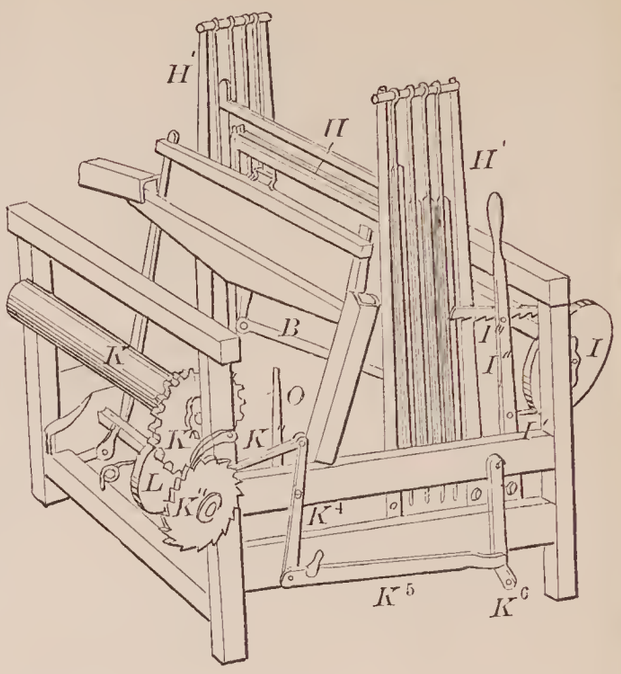
74347—Griswold, Cramer & Blay—*Equalizing Doubletree.*



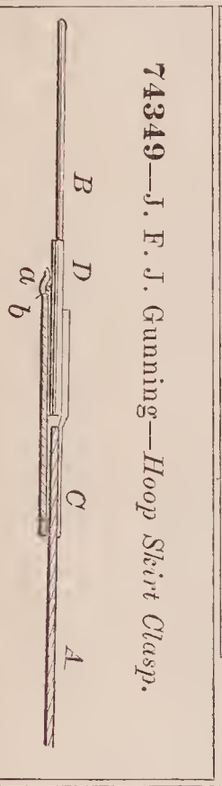
74348—M. W. Gunn—*Harrow.*

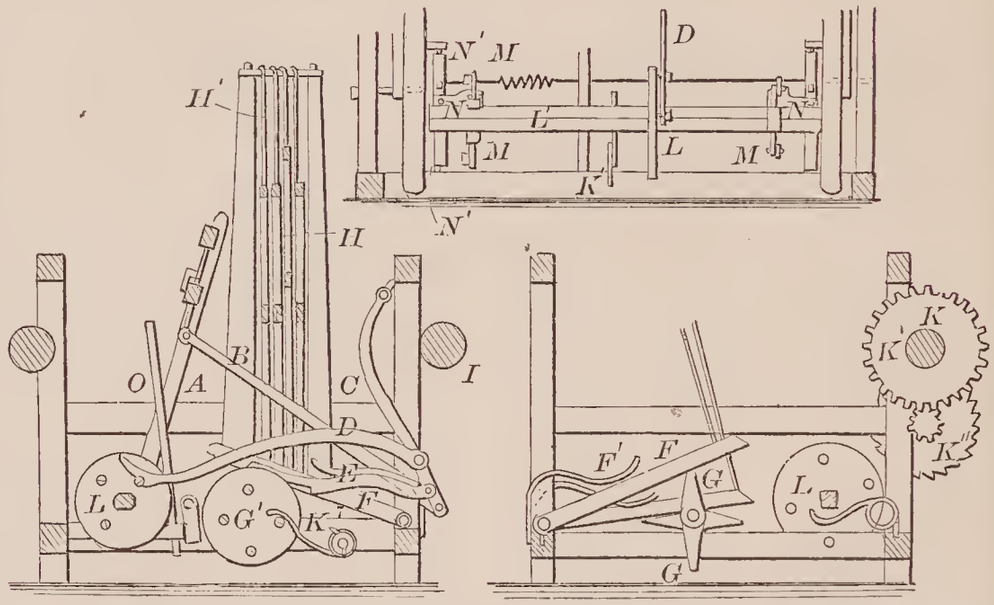


74351—Harsin & Kirkpatrick—*Hand Loom.*

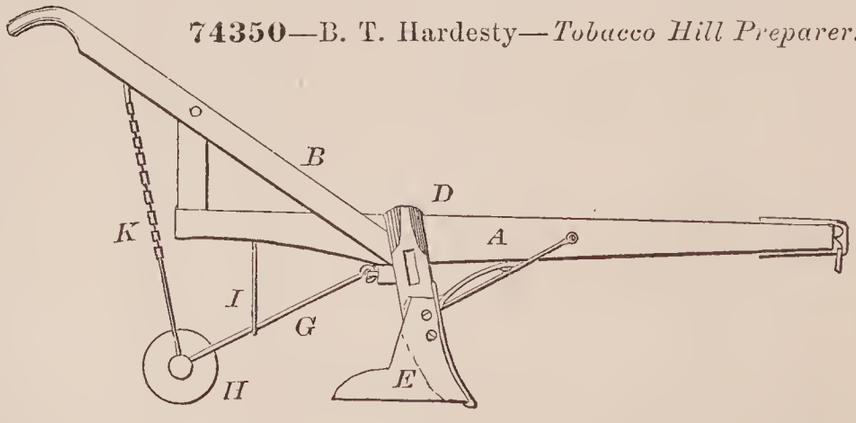


74349—J. F. J. Gunning—*Hoop Skirt Clasp.*

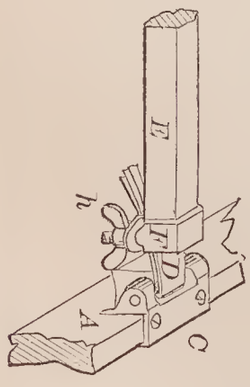




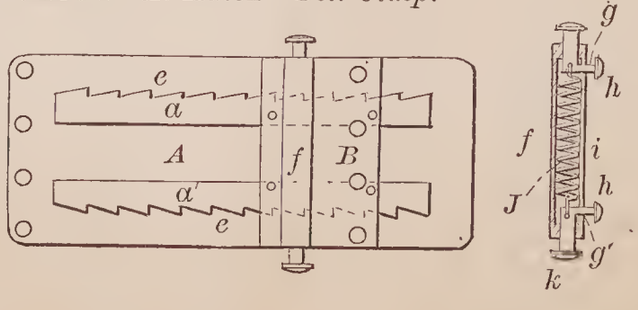
74350—B. T. Hardesty—*Tobacco Hill Preparer.*



74353—P. J. Harvey—*Spring Bed Bottom.*

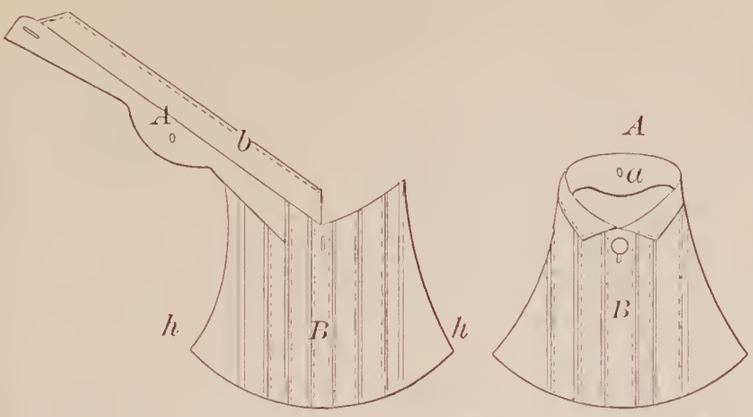


74354—E. Hatch—*Belt Clasp.*

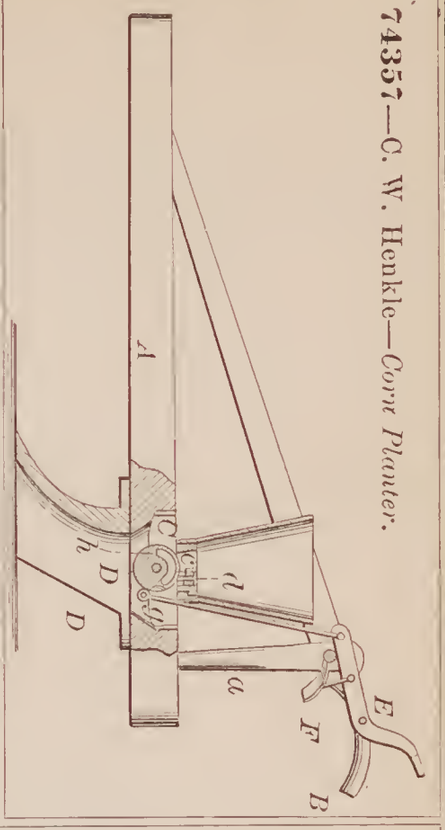


74352—Hart & Norton—*Carpet Fastener.*

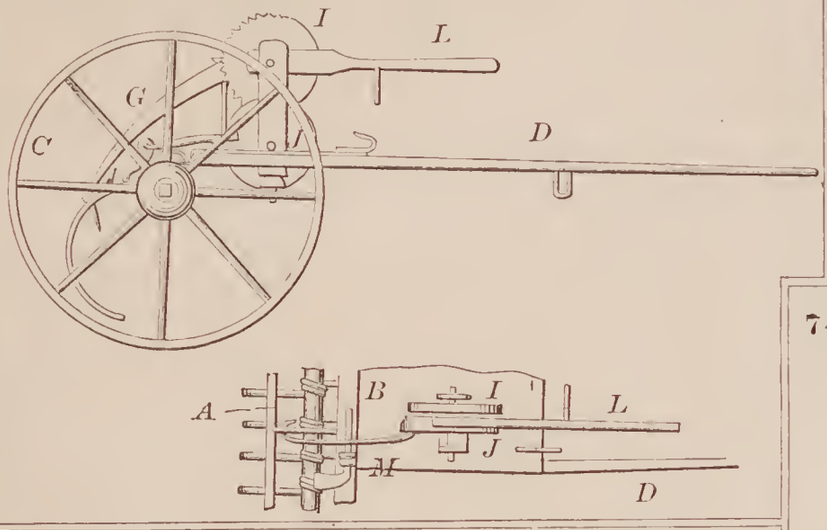
74355—E. Hatch—*Collar and Bosom.*



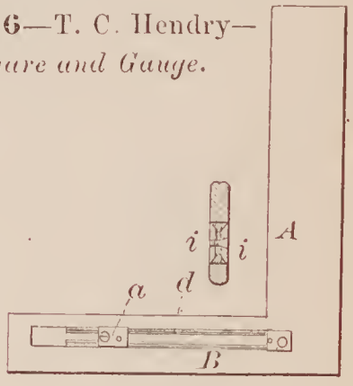
74357—C. W. Henkle—*Corn Planter.*



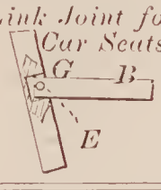
74358—T. Himmelberger—*Horse Rake.*



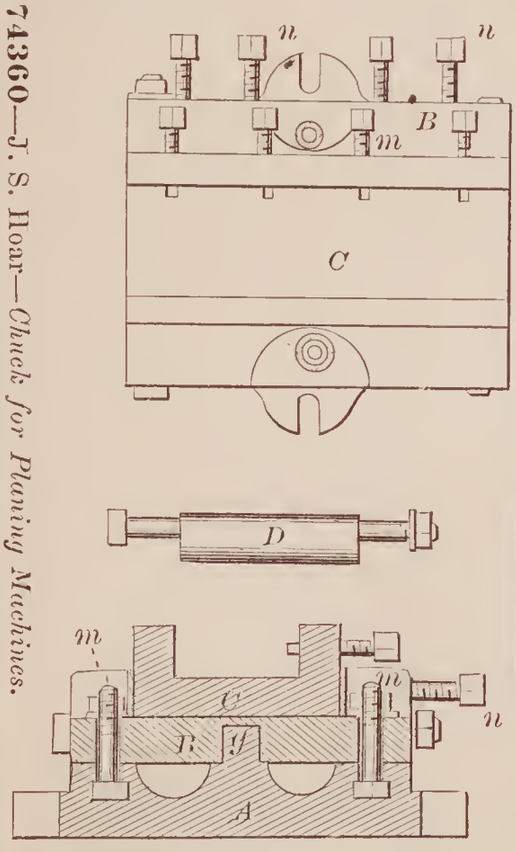
74356—T. C. Hendry—*Square and Gauge.*



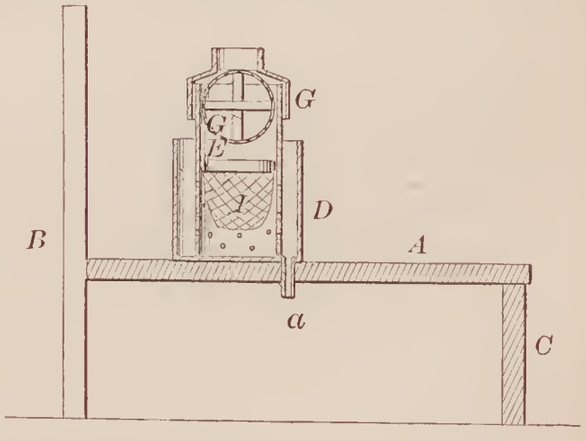
74359—R. Hitchcock—*Link Joint for Car Seats.*



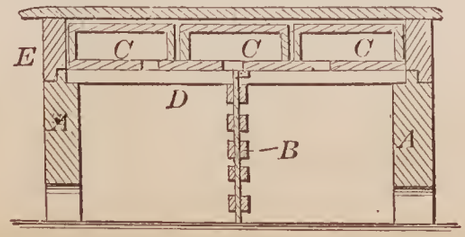
74360—J. S. Hoar—*Chuck for Planing Machines.*



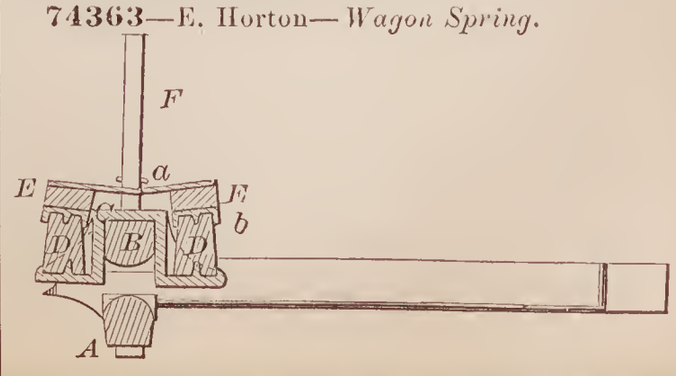
74361—H. A. Holderman—*Fruit Mill and Press.*



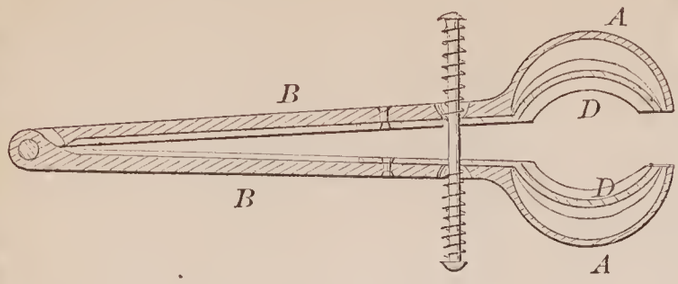
74362—I. Honeywell—*Beehive.*



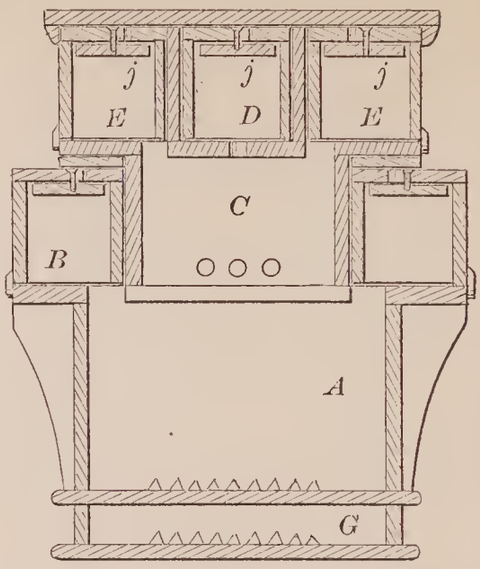
74363—E. Horton—*Wagon Spring.*



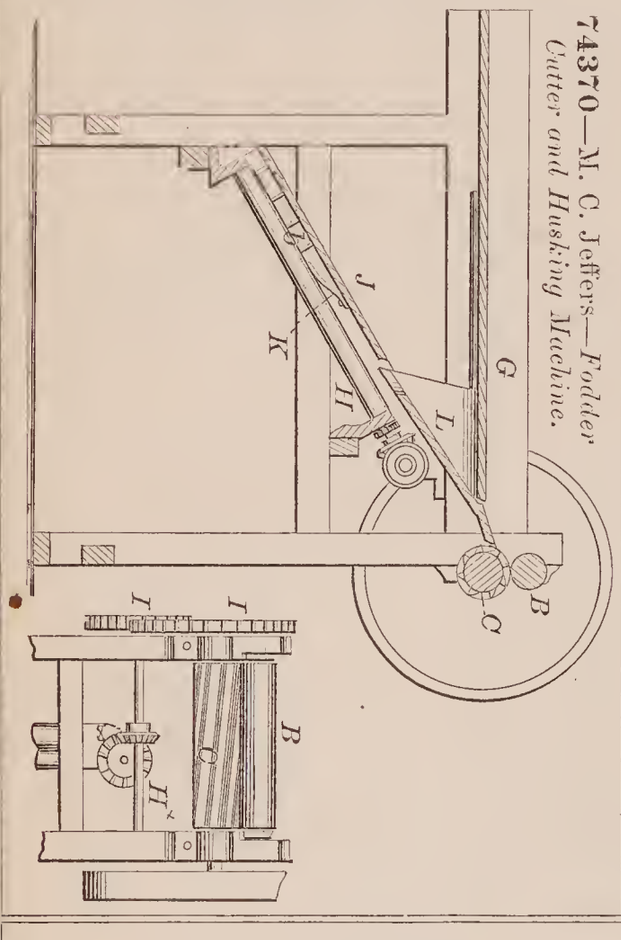
74364—M. & S. Housman—*Corn Sheller.*



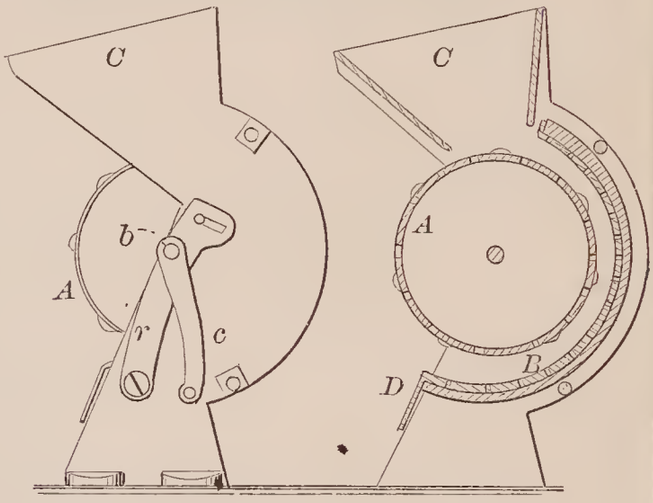
74369—J. A. Jackson—*Beehive.*



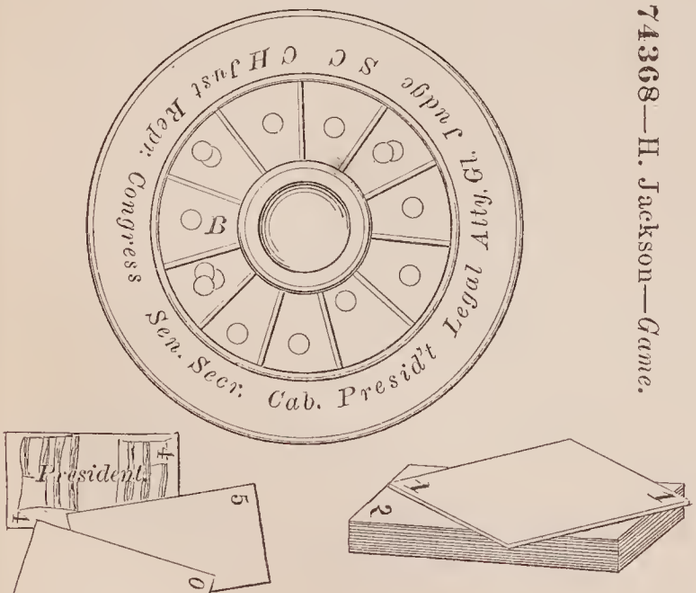
74370—M. C. Jeffers—*Fodder Cutter and Husking Machine.*



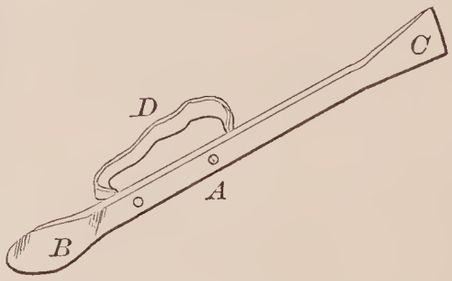
74365—G. S. Hull—*Fruit Mill.*



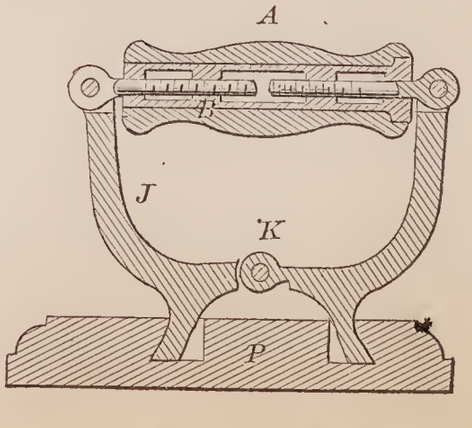
74368—H. Jackson—*Game.*



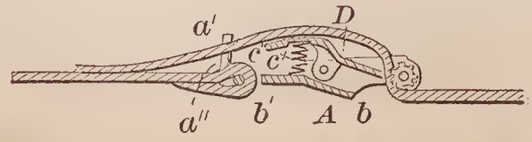
74371—C. S. Jewett—*Weeding Implement*



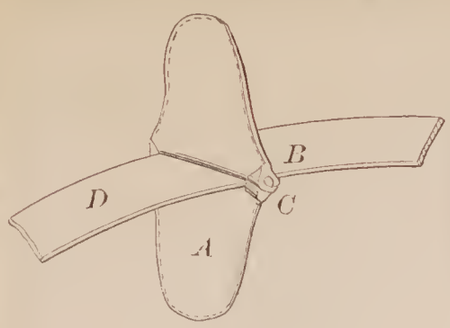
74372—J. Jones—*Smoothing Iron.*



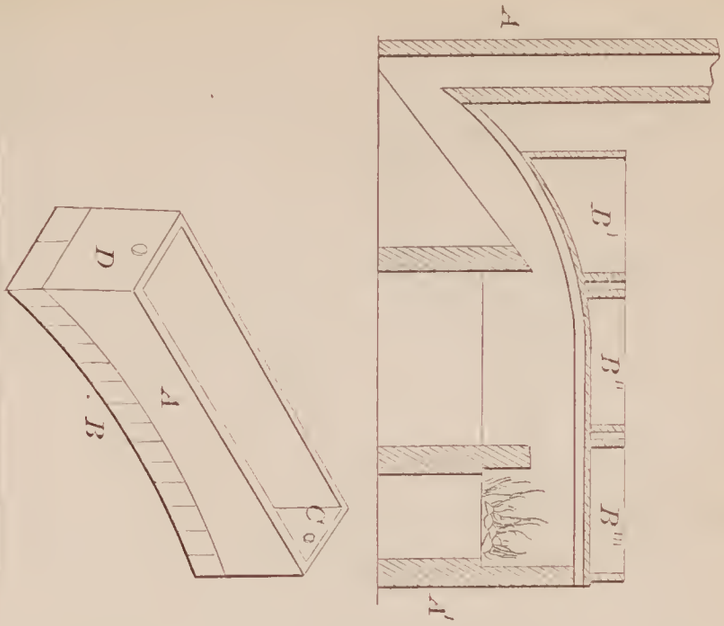
74367—A. Hurd—*Buckle.*

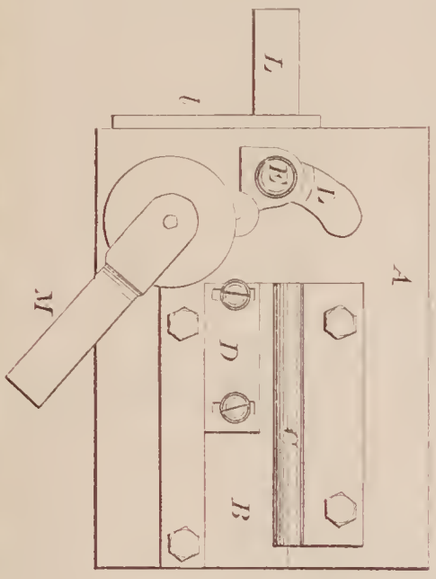


74373—P. Jones—*Rein Holder.*

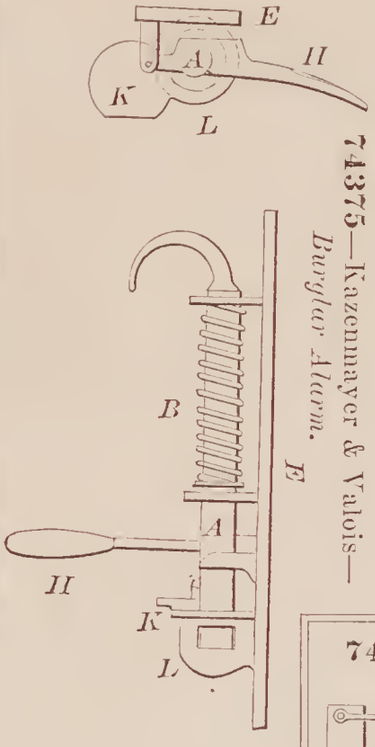


74374—T. J. Jones—*Paddling Furnace.*



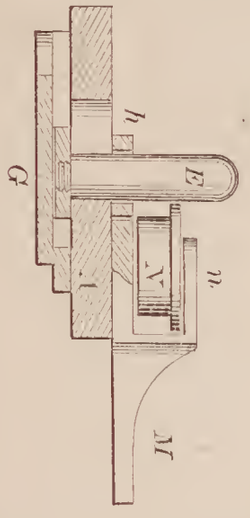


74375—Kazenmayer & Valois—*Burglar Alarm.*

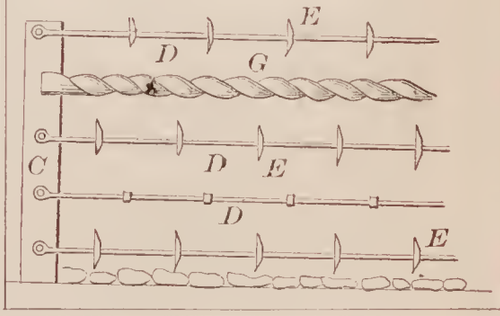


74376—C. Kellogg—*For Boring Links.*

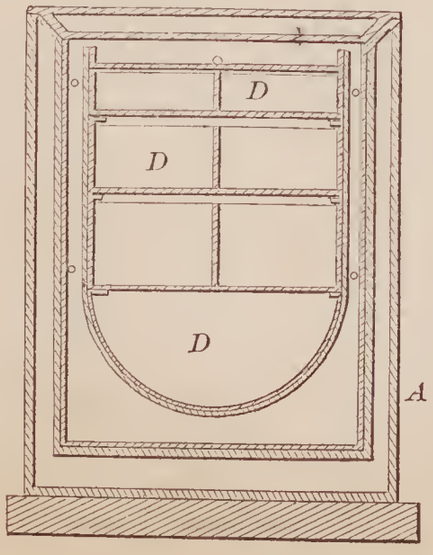
74377—C. Kellogg—*For Forming Eyes on Metal Rods.*



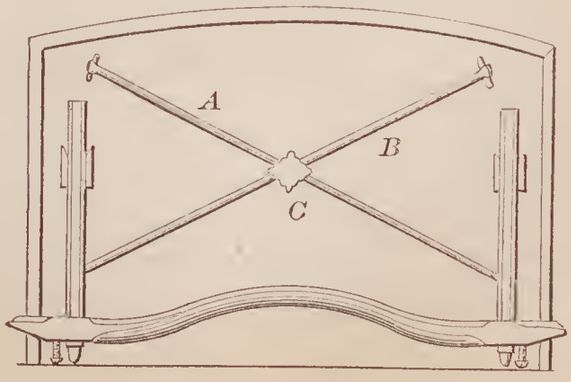
74379—M. Kelly—*Fence.*



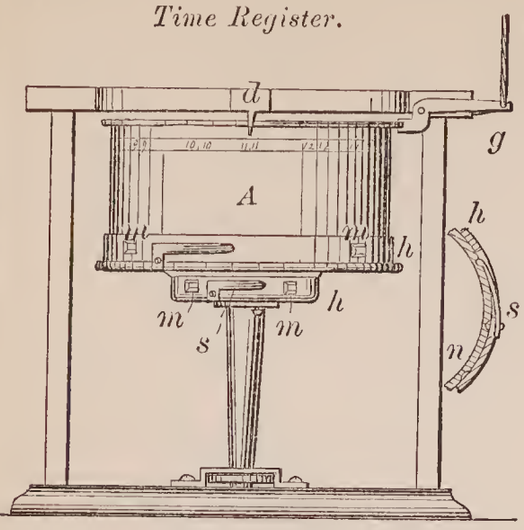
74378—T. D. Kellogg—*Preserving Fishing Bait.*



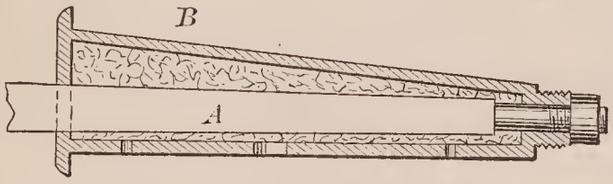
74380—H. Killam—*Carriage Cross Strap.*



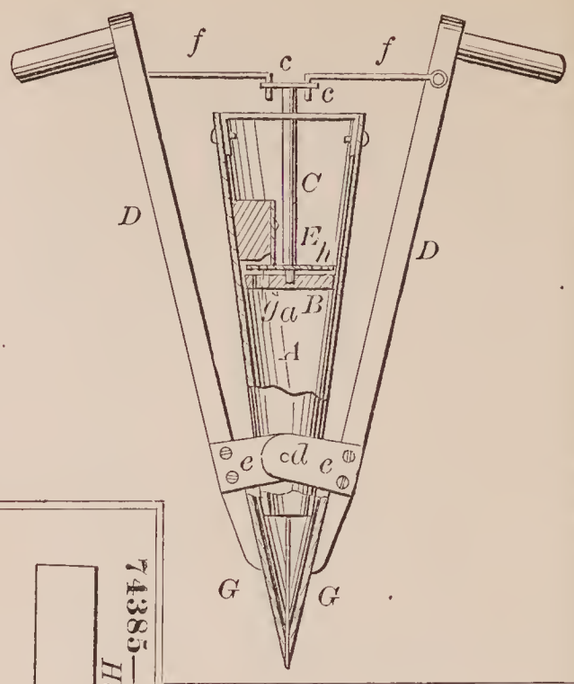
74381—W. A. L. Kirk—*Workmen's Time Register.*



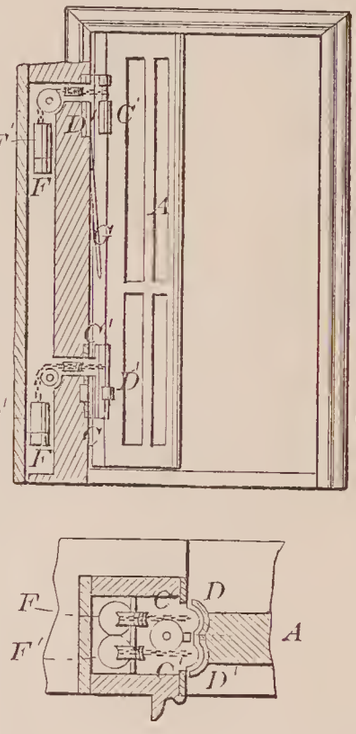
74382—W. Knoch—*Axle for Vehicles.*



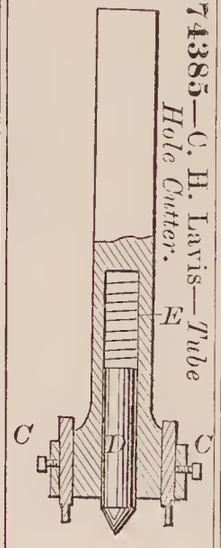
74383—Koeller & Uecke—*Seed Planter.*



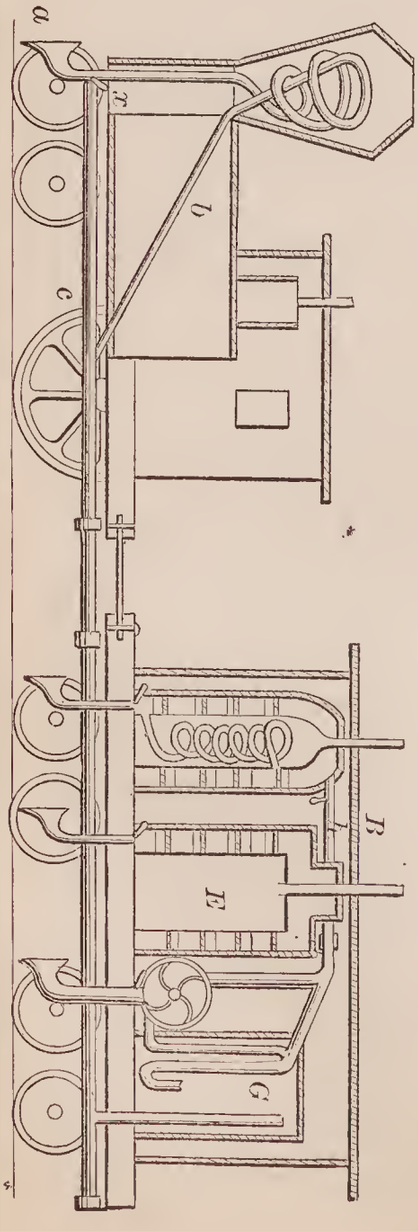
74384—G. Lane—*Door Hinge.*



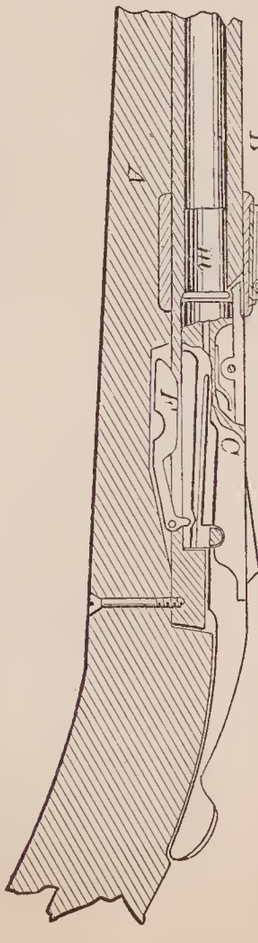
74385—C. H. Lavis—*Tube Hole Cutter.*



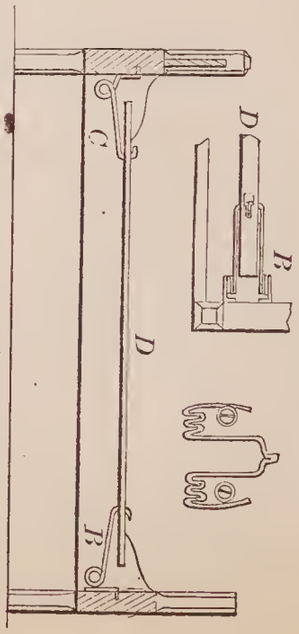
74386—S. Lloyd—*Heating Railroad Cars.*



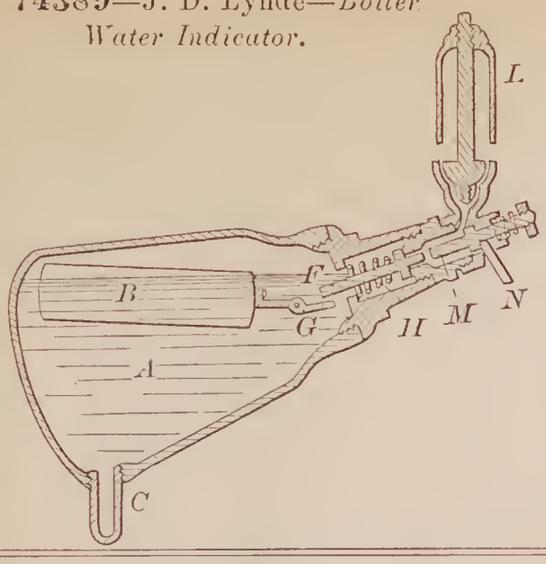
74387 H. Lord—*Breech-Loading Fire Arm.*



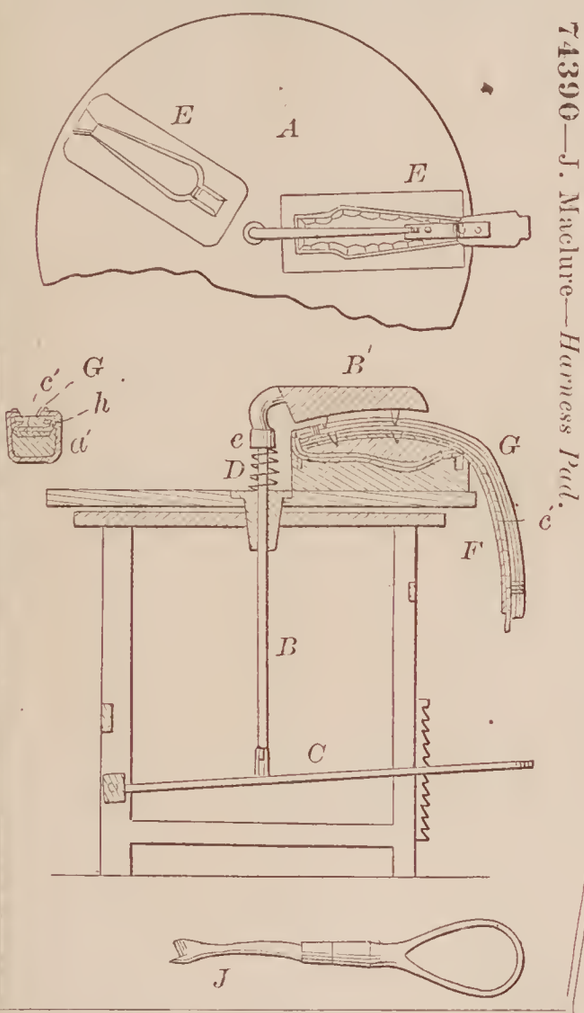
74388—R. O. Lowrey—*Spring Bed Bottom.*



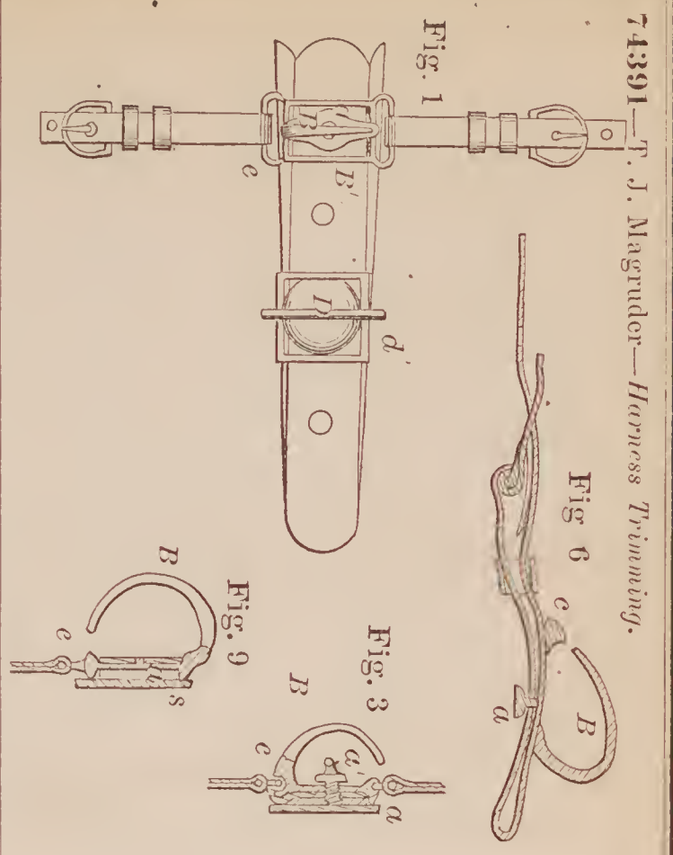
74389—J. D. Lynde—*Boiler Water Indicator.*



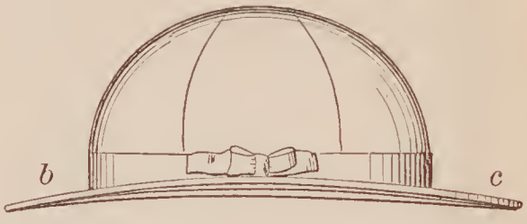
74390—J. Maclure—*Harness Pad.*



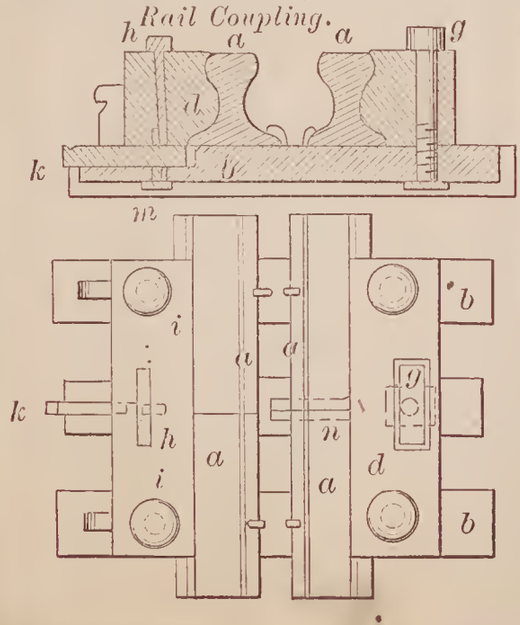
74391—T. J. Magruder—*Harness Trimming.*



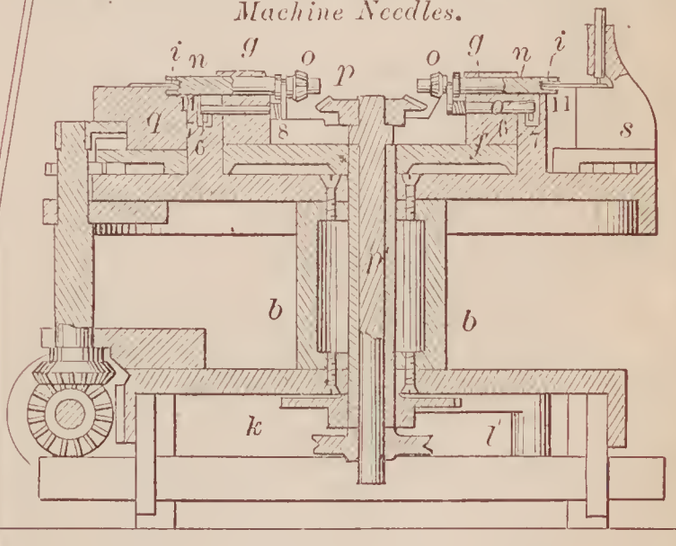
74392—G. Mallory—*Hat.*

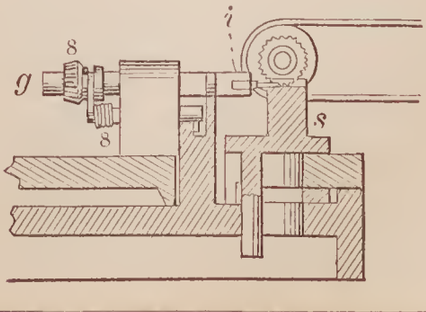


74393—W. S. Mallory—*Railroad Rail Coupling.*

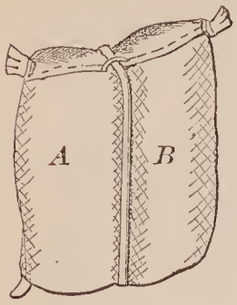


74394—E. J. Manville—*For Making Sewing Machine Needles.*

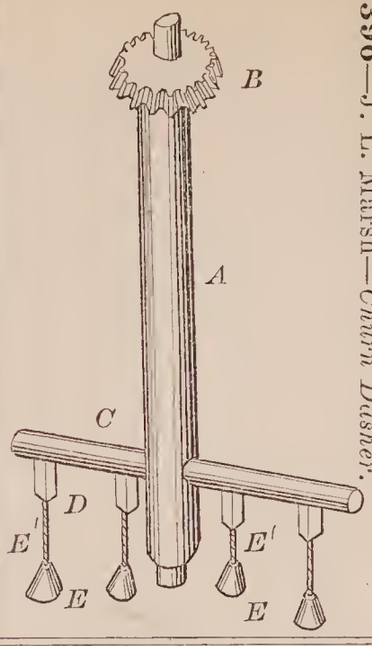




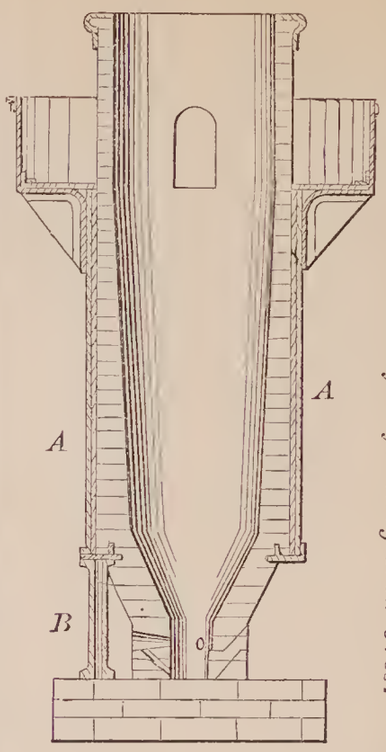
74395—L. A. Marburg—*Packing Tobacco.*



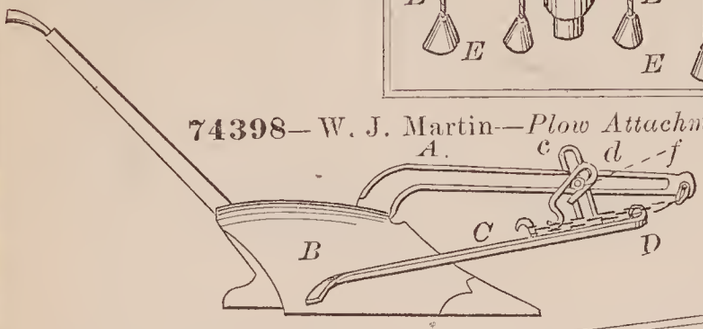
74396—J. L. Marsh—*Churn Dasher.*



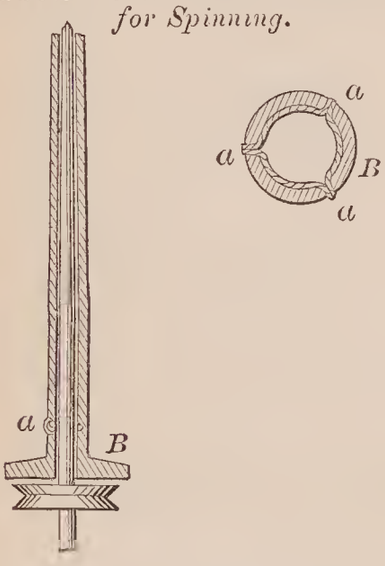
74397—C. Martin—*Reduction of Refractory Iron Ores.*



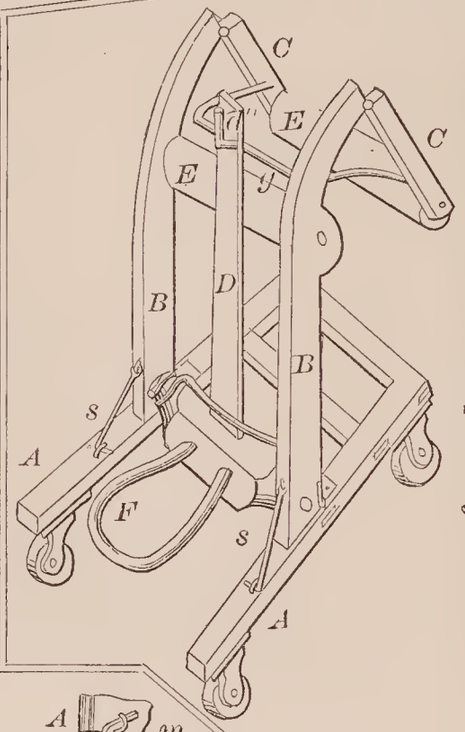
74398—W. J. Martin—*Plow Attachment.*



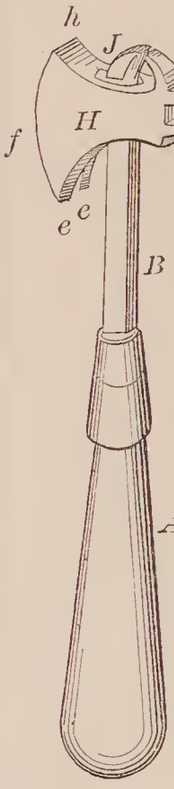
74402—C. B. Morse—*Bobbin for for Spinning.*



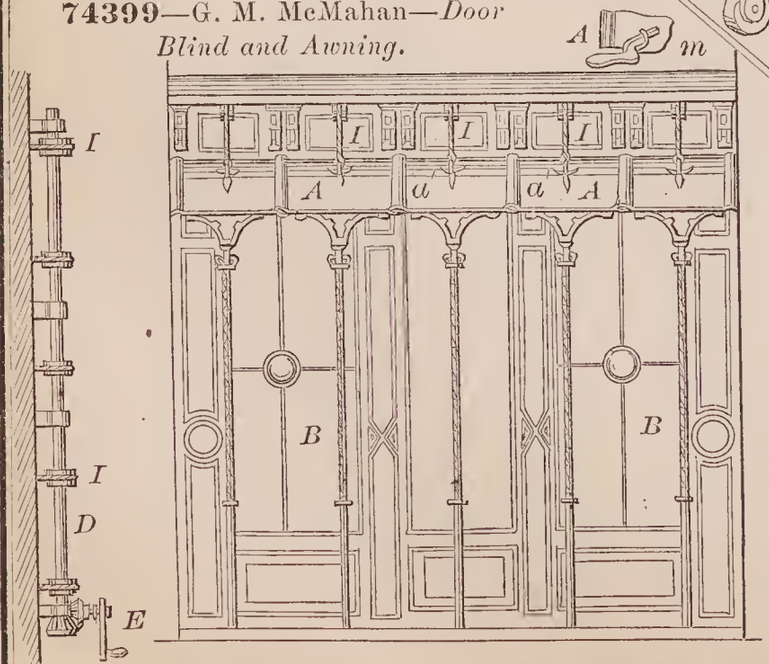
74400—J. H. Mears—*Mop Wringer.*



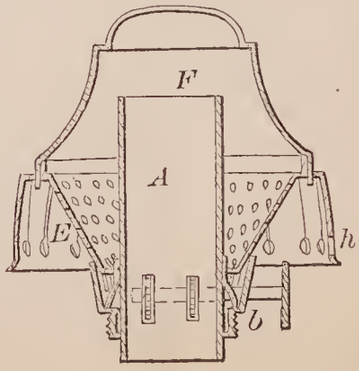
74401—D. Morris—*For Extracting Nails.*



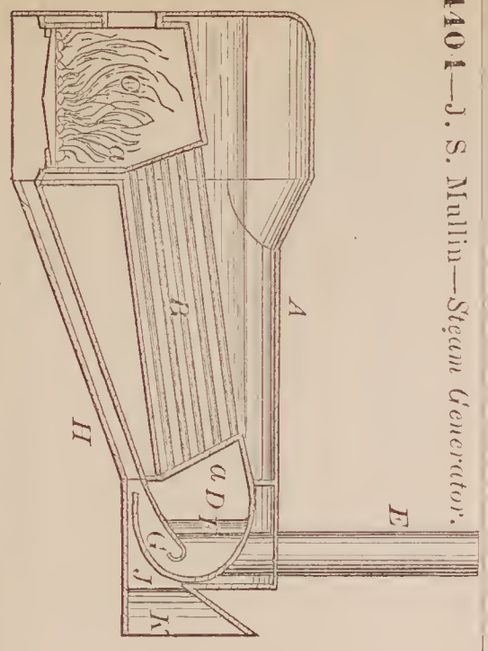
74399—G. M. McMahan—*Door Blind and Awning.*



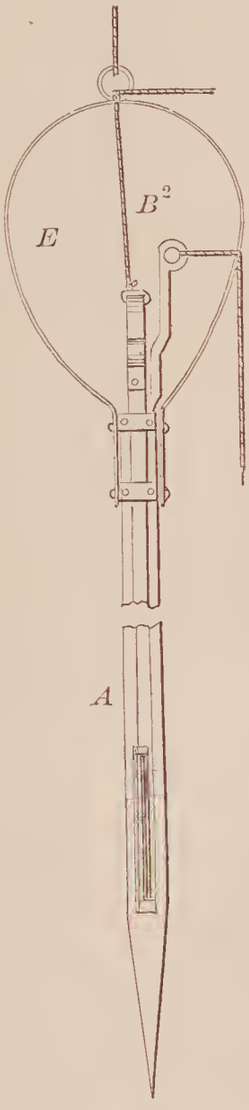
74403—W. Mullally—*Lamp*



74404—J. S. Mullin—*Steam Generator.*

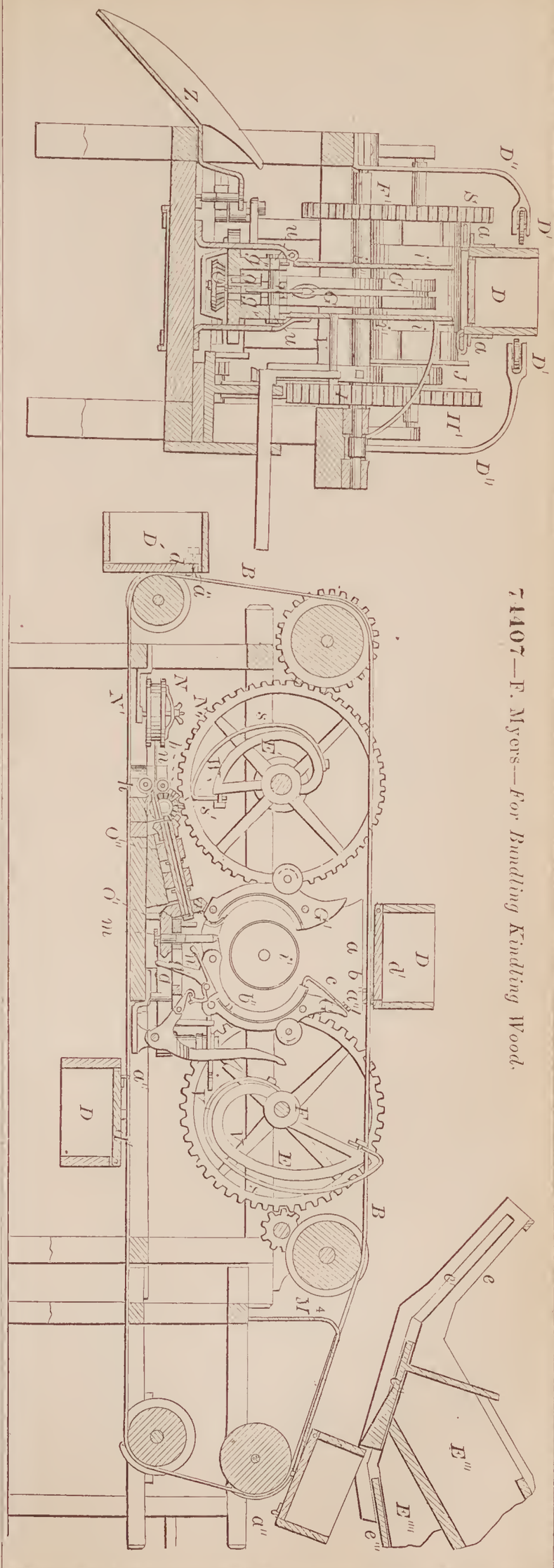


74405—J. H. Mullin—*Horse Hay Fork.*

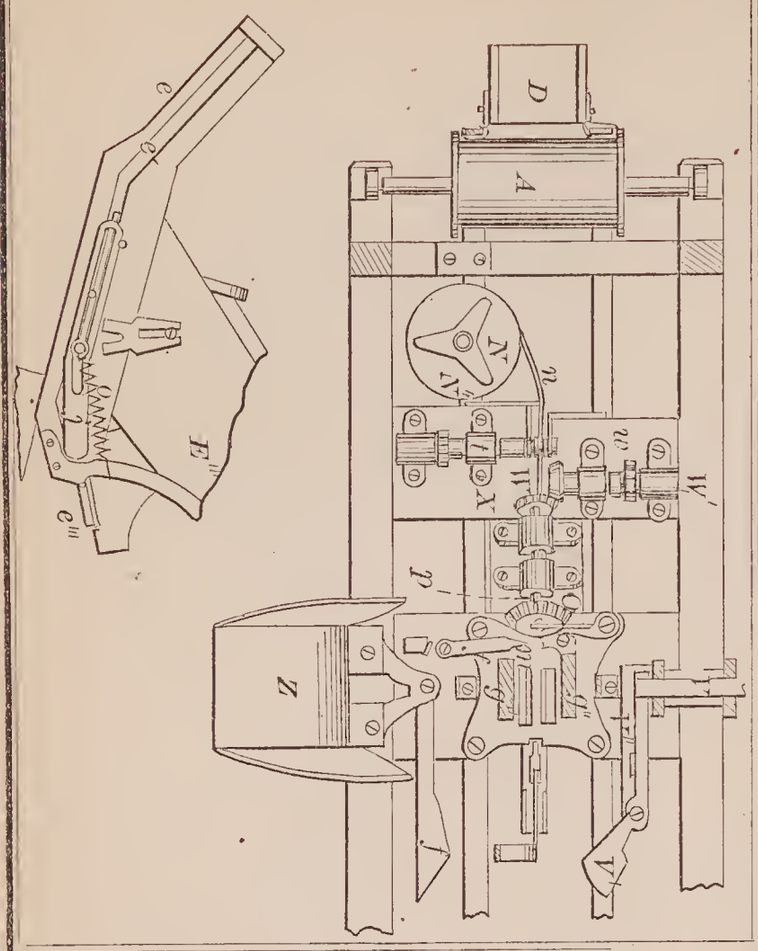


74406—D. Munson—*Lightning Rod.*

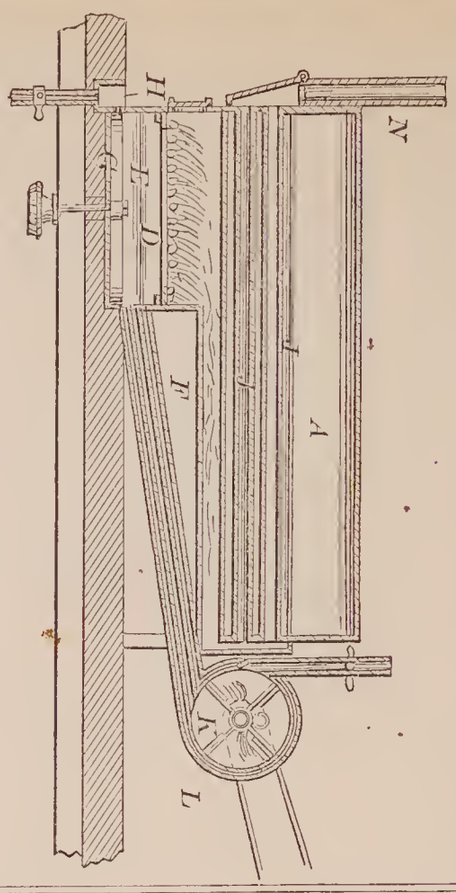
74407—F. Myers—*For Bundling Kindling Wood.*



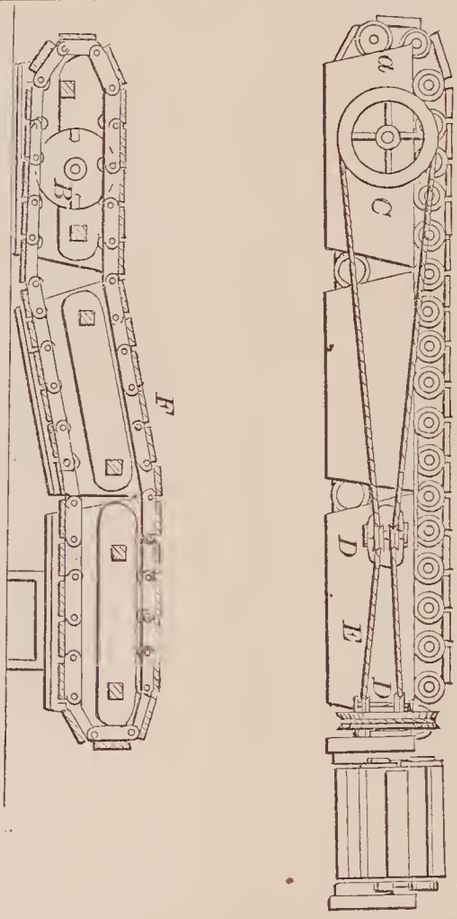
74407—*Continued.*



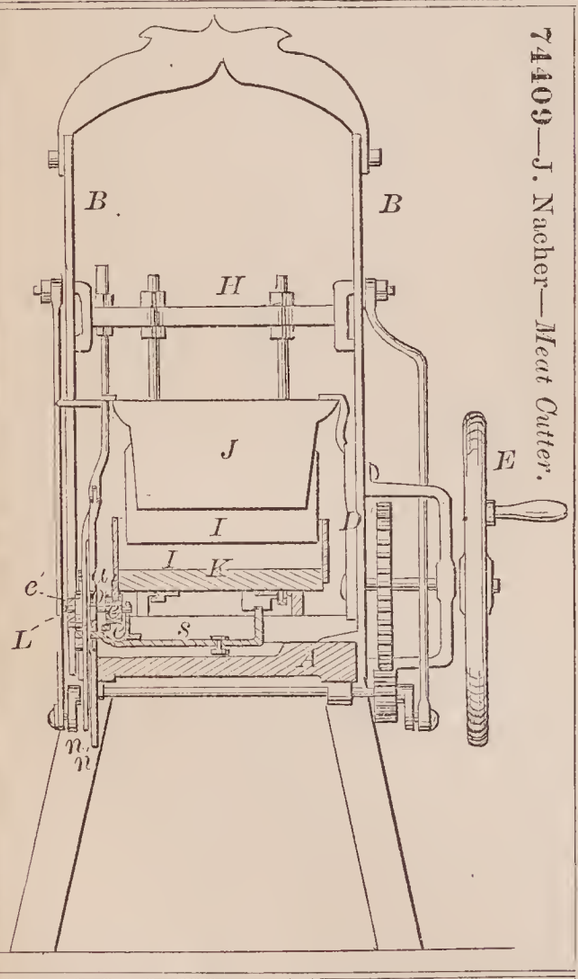
74410—W. H. & M. V. Nobles—*Steam Generator.*



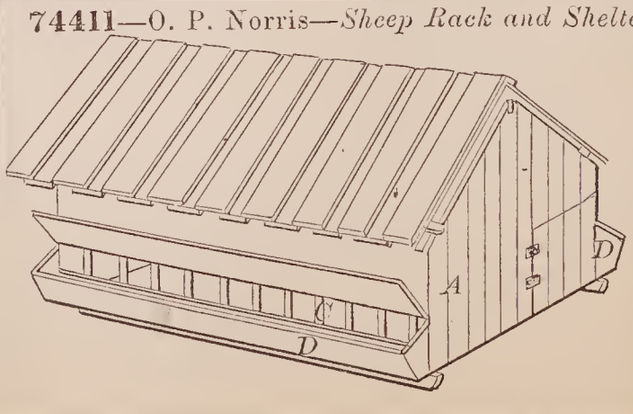
74408—W. T. Nichols—*Portable Railway Elevator.*



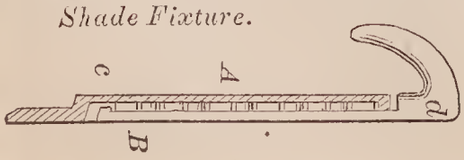
74409—J. Nacher—*Meat Cutter.*



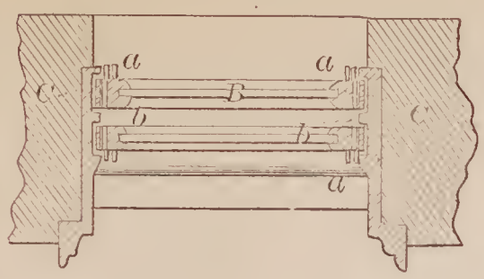
74411—O. P. Norris—*Sheep Rack and Shelter.*



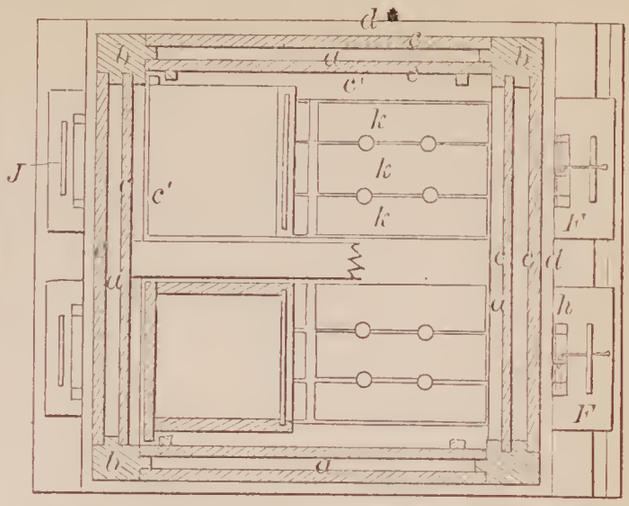
74412—W. A. C. Oaks—*Window Shade Fixture.*



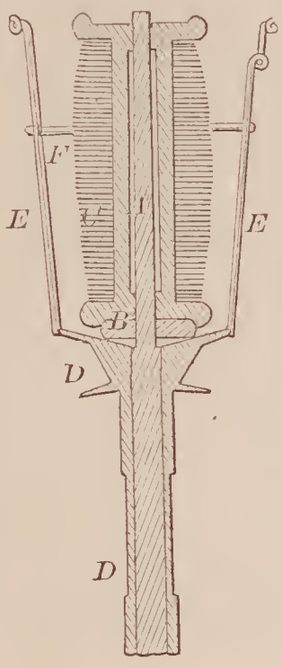
74413—C. H. Palmer—*Hanging Window Sash.*



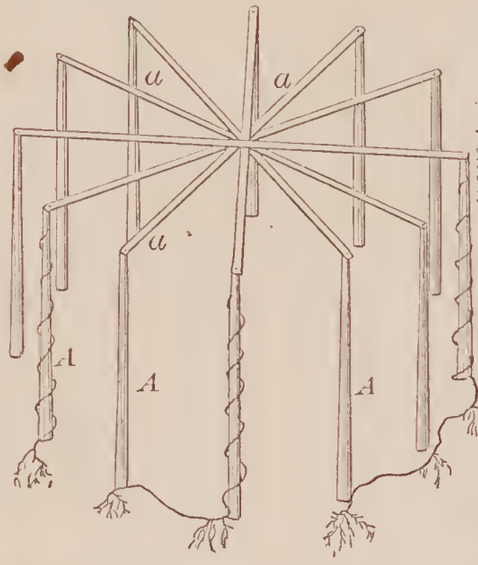
74415—J. M. Patton—*Beehive.*



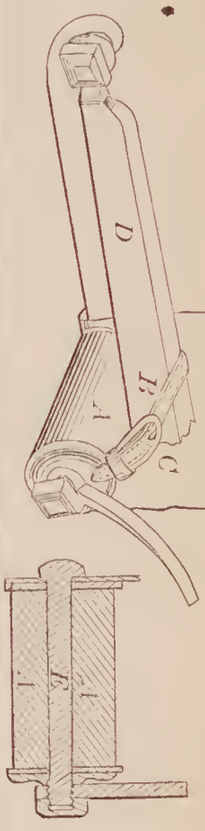
74416—O. Pearl—*Spinning Throstle.*



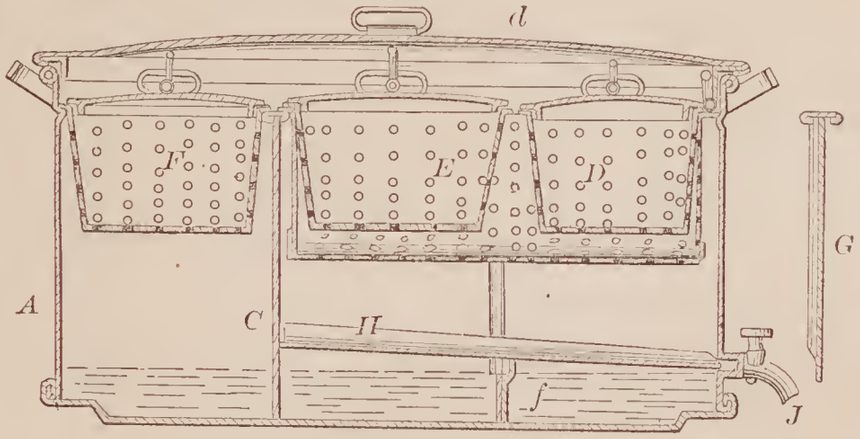
74417—S. Perry—*Cultivating Grape Vines.*



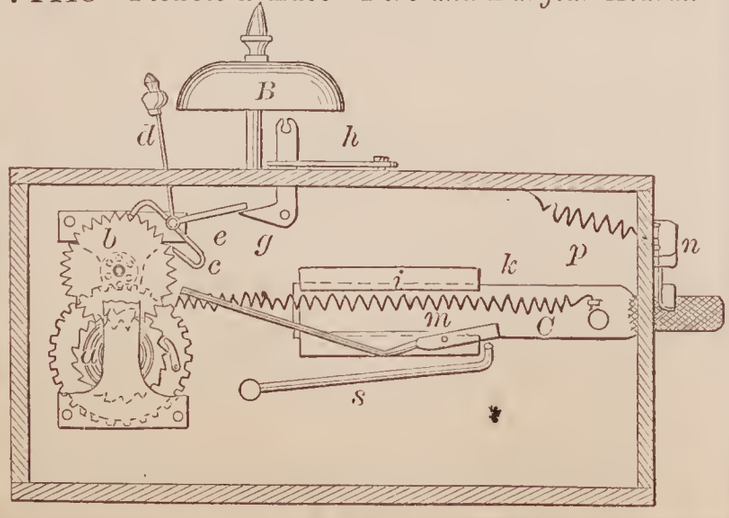
74414—J. Palmer—*Buggy Top Roller.*



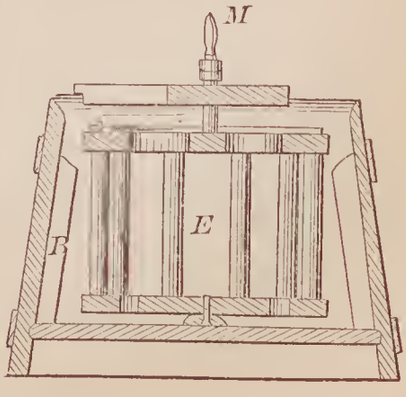
74419—O. Poole—*Culinary Boiler.*



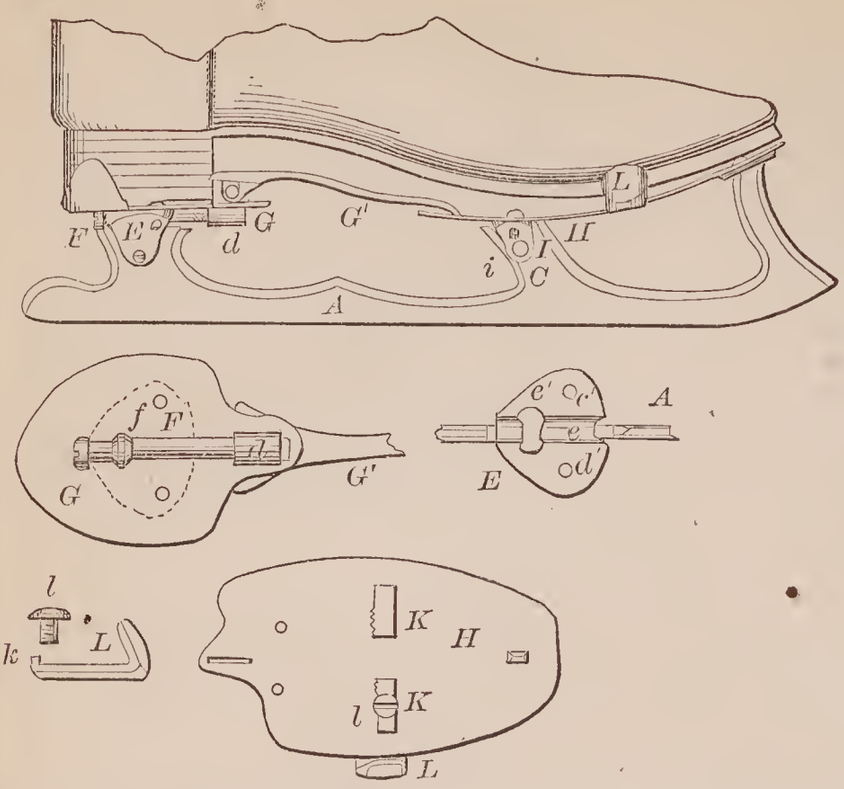
74418—Pickett & Luce—*Fire and Burglar Alarm.*



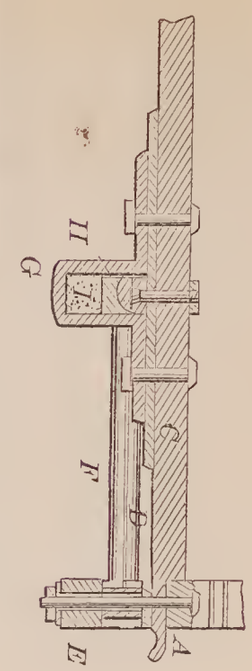
74420—Porter & Roberts—*Potato Washer.*



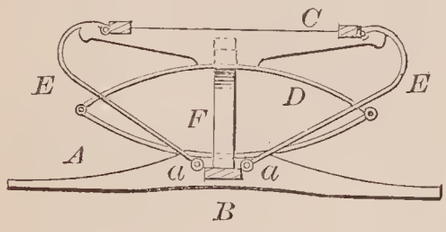
74421—J. W. Post—*Skate.*



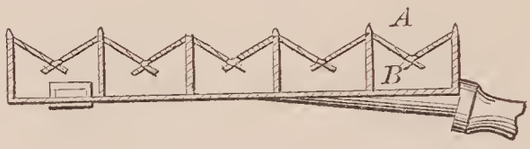
74422—H. W. Ransom—*Fifth Wheel for Carriages.*



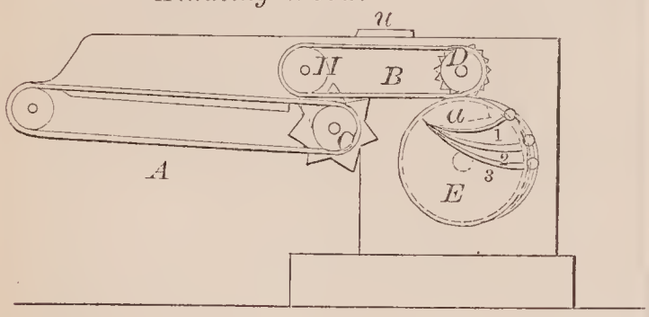
74424—C. L. Rice—*Vehicle Spring.*

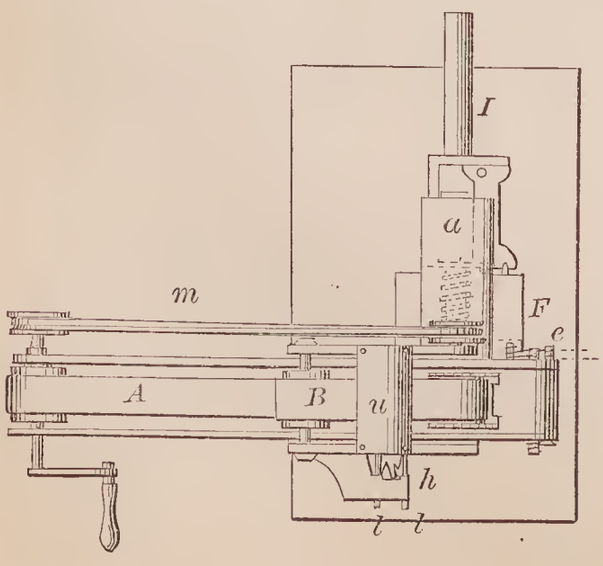


74423—B. W. Remington—*Curry Comb.*

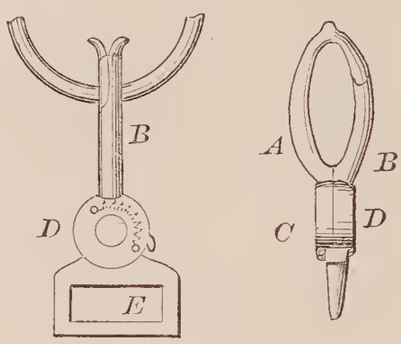


74425—J. Richardson—*For Bundling Kindling Wood.*

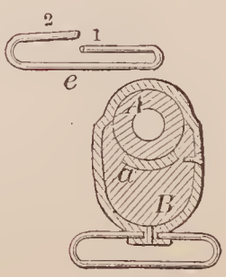




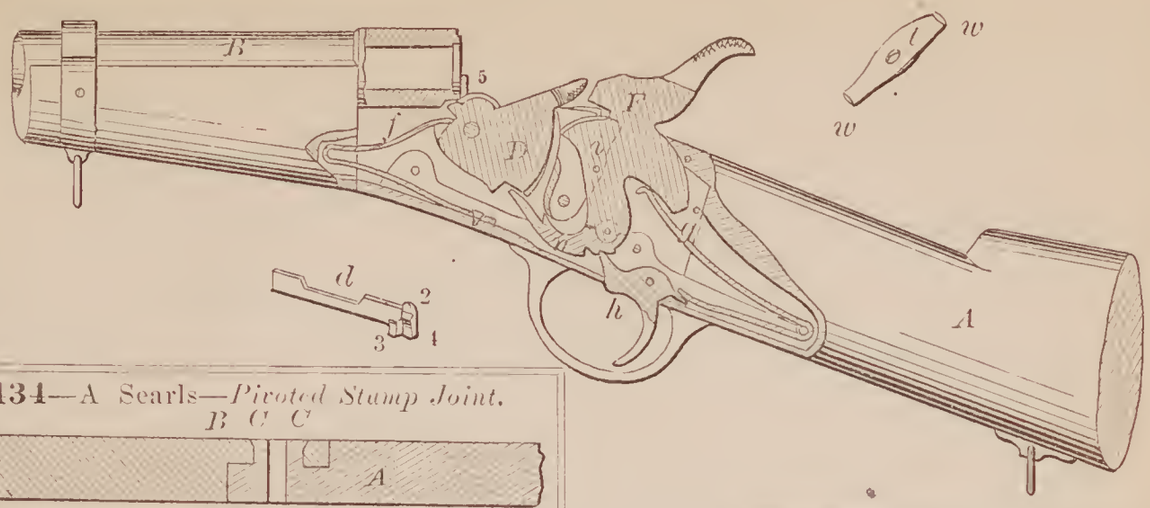
74426—I. C. Richmond—*Snap Hook.*



74427—J. Rider—*Snap Ring for Fire Arms.*

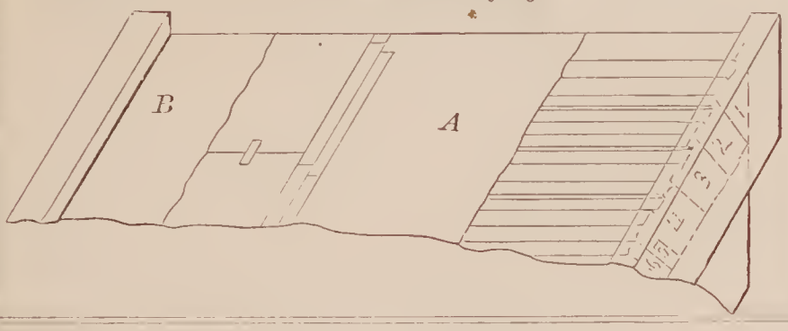


74428—J. Rider—*Breech-Loading Fire Arm.*

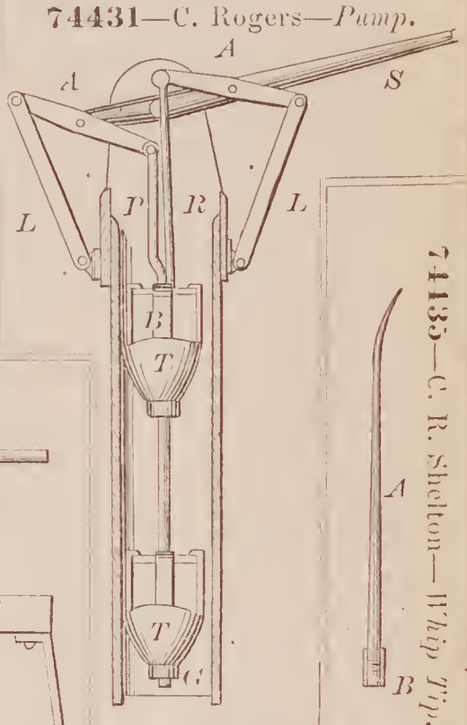


74434—A Searls—*Pivoted Stump Joint.*

74430—L. Rodney—*Cement Roofing.*

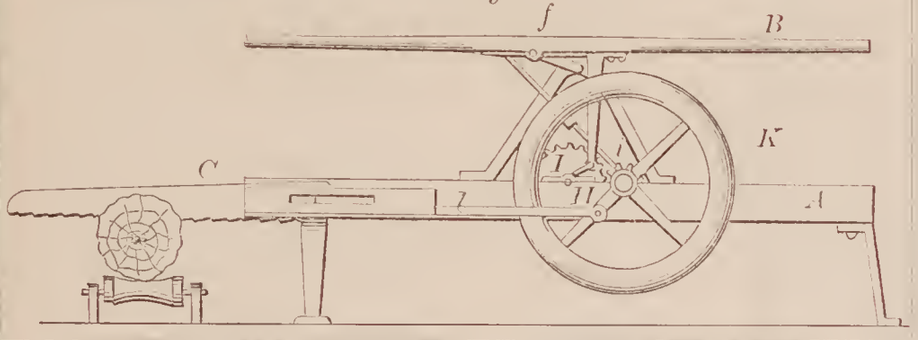


74431—C. Rogers—*Pump.*

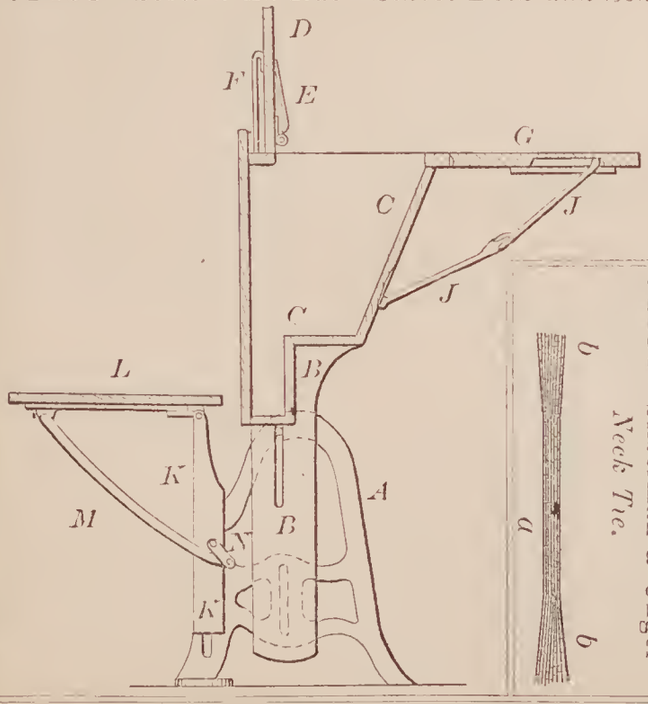


74435—C. R. Shelton—*Whip Tip.*

74432—Root & Bennett—*Sawing Machine.*

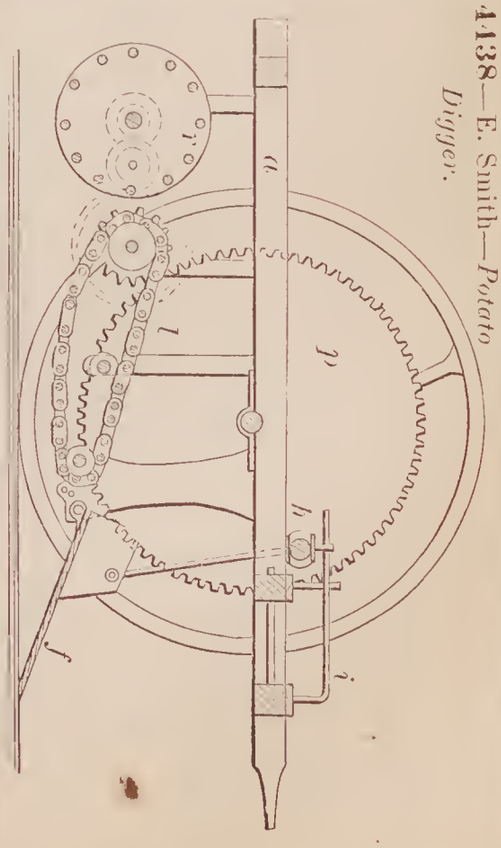


74433—Scott & La Rue—*School Desk and Seat.*

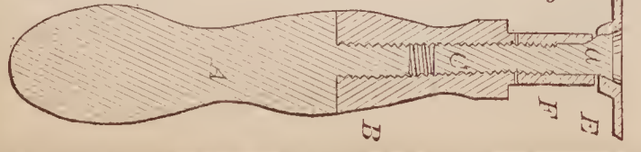


74436—Silberman & Unger—*Neck Tie.*

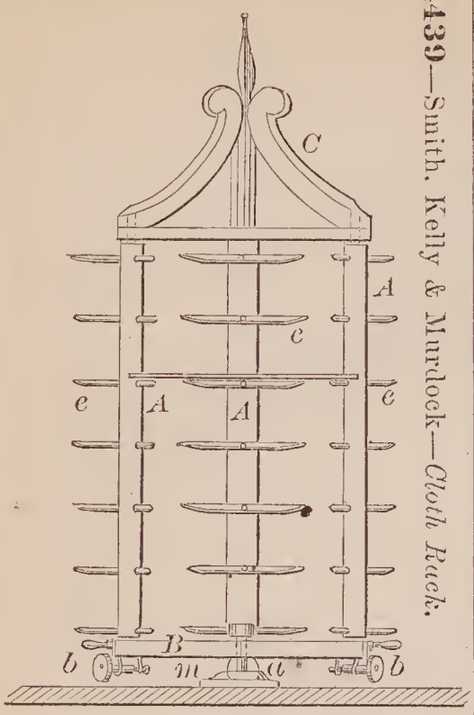
74438—E. Smith—*Potato Digger.*



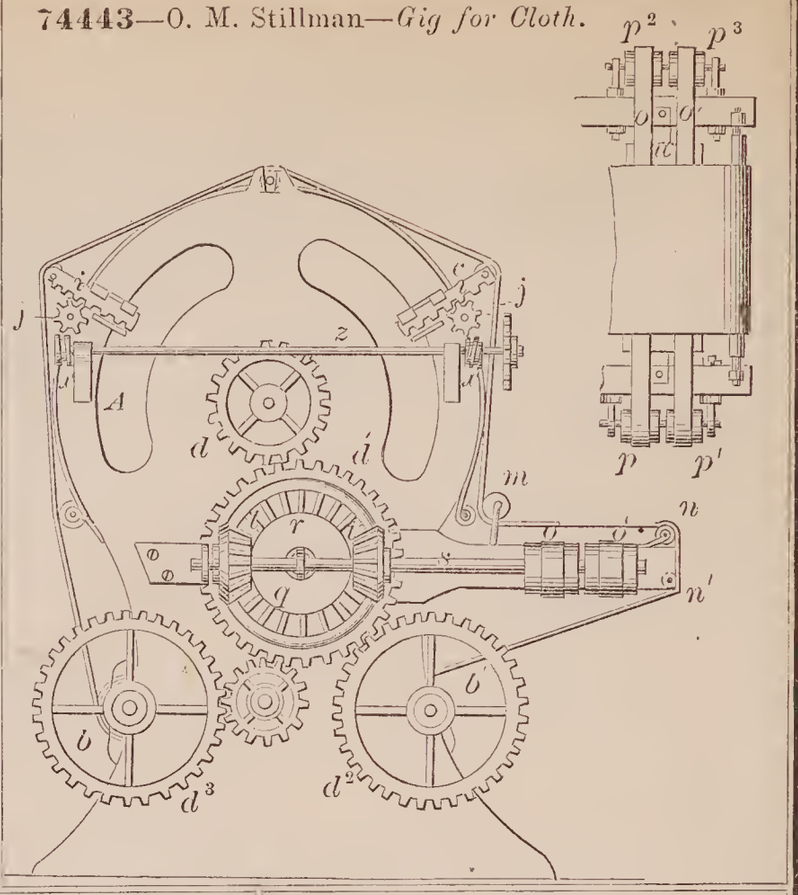
74437—A. B. Simonds—*Hand Turning Tool*



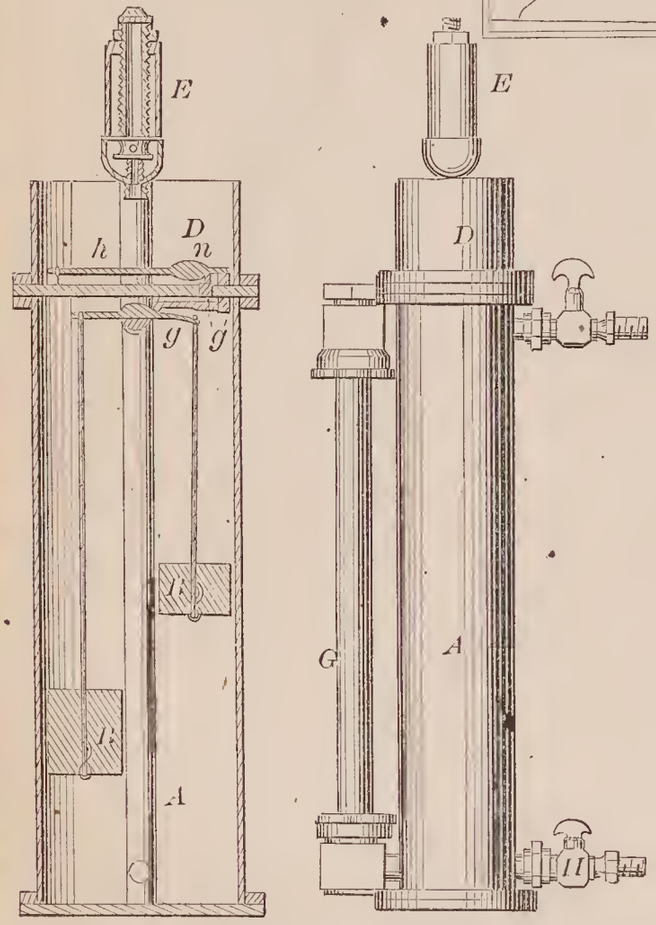
74439—Smith, Kelly & Murdock—*Cloth Rack.*



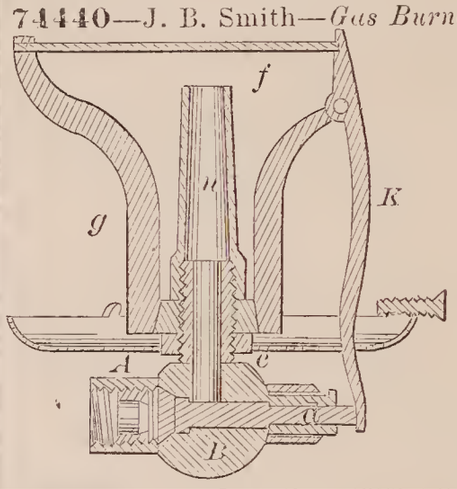
74443—O. M. Stillman—*Gig for Cloth.*



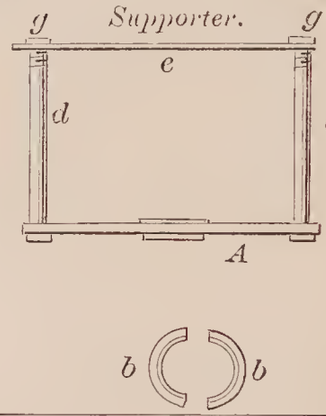
74442—J. H. Springer—*Water Alarm for Steam Generators.*



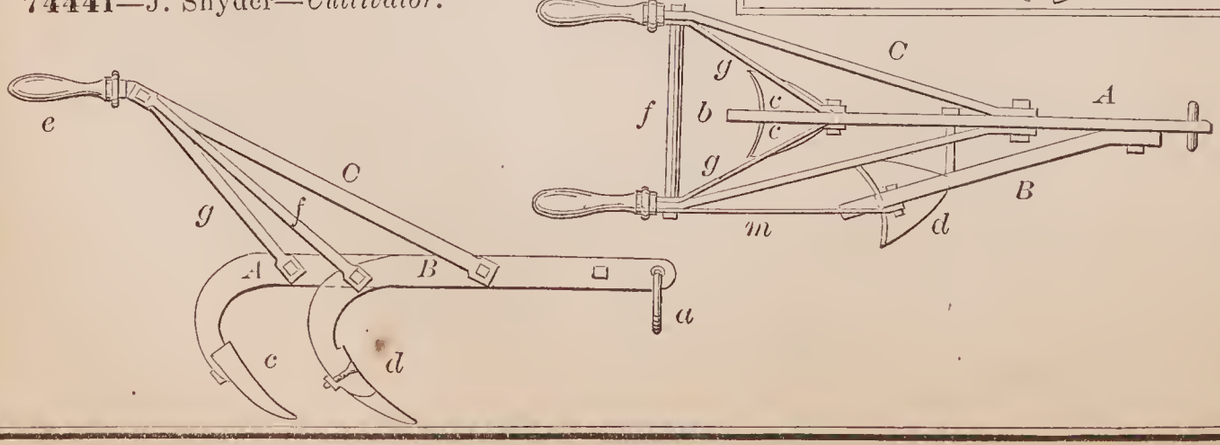
74440—J. B. Smith—*Gas Burner.*



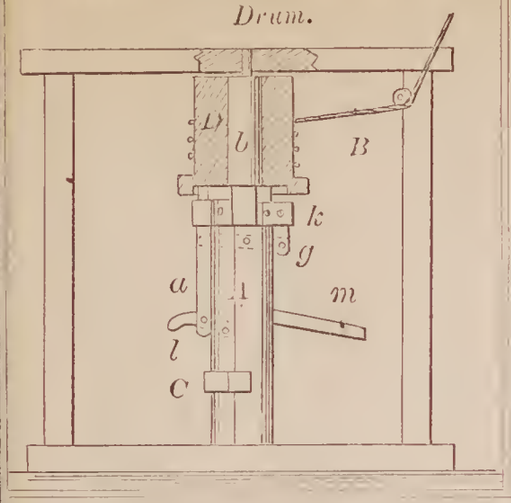
74444—A. J. Stover—*Stove Flue Supporter.*



74441—J. Snyder—*Cultivator.*



74445—H. Strickler—*Hoisting Drum.*



74446—W. H. Sutherland—*Sash Stop.*

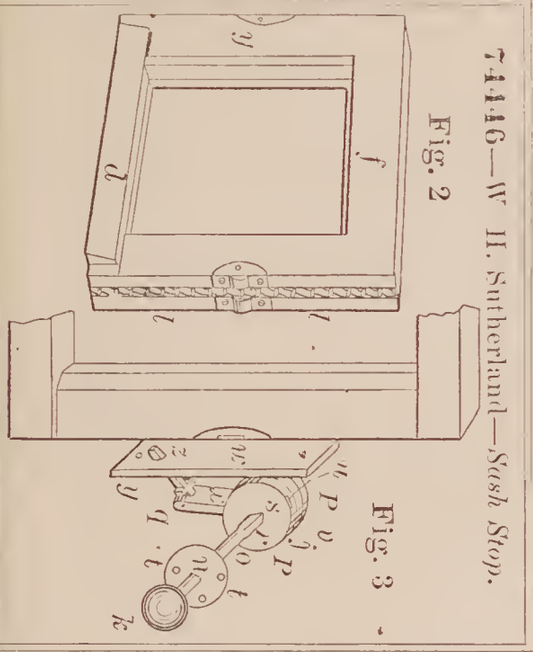
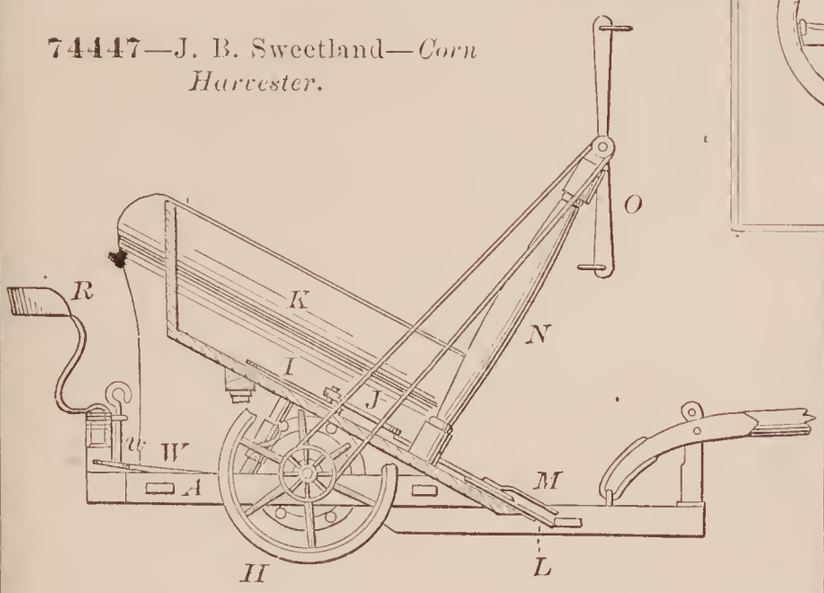
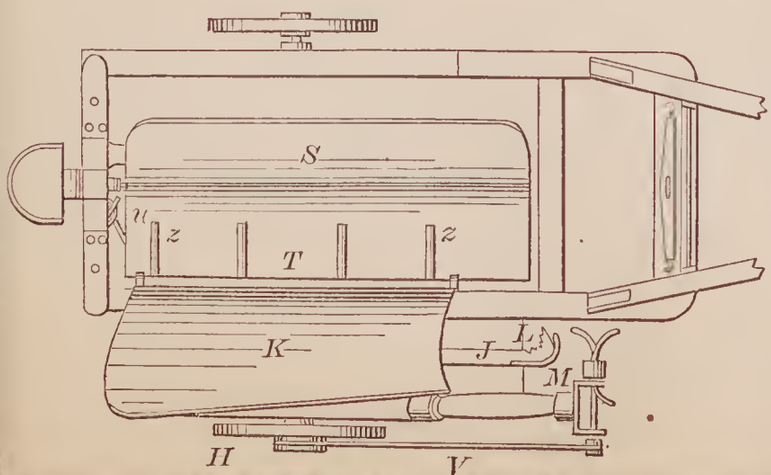


Fig. 2

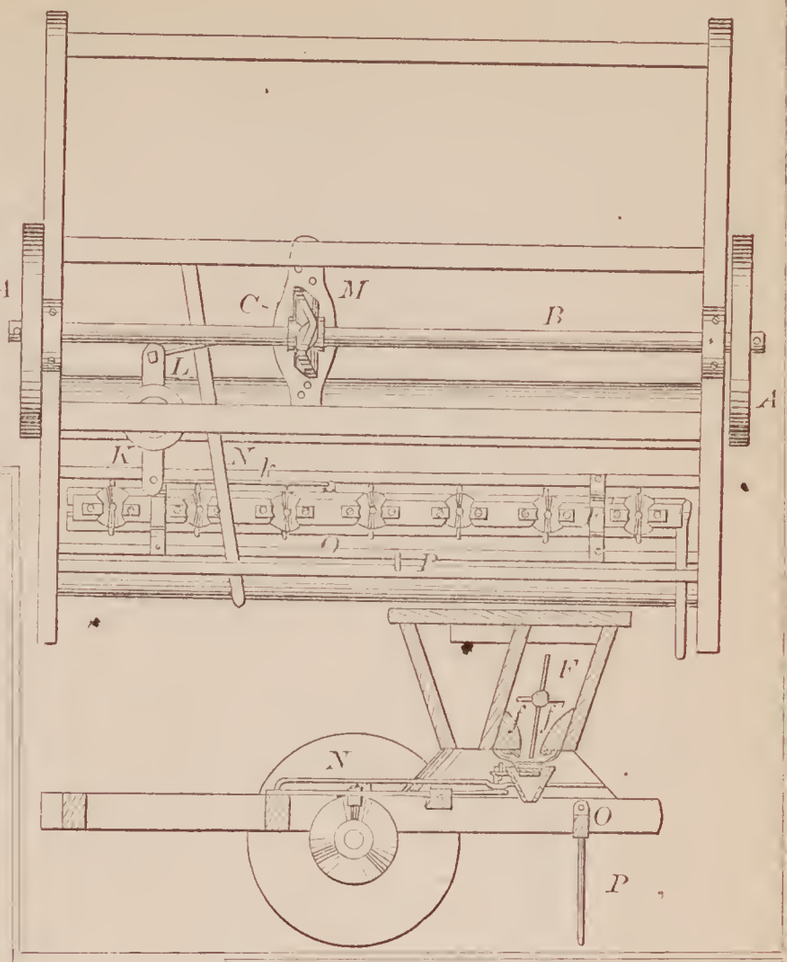
Fig. 3

74447—J. B. Sweetland—*Corn Harvester.*

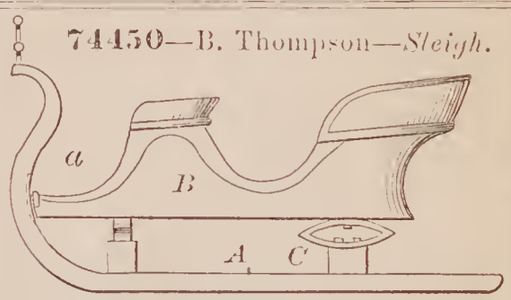


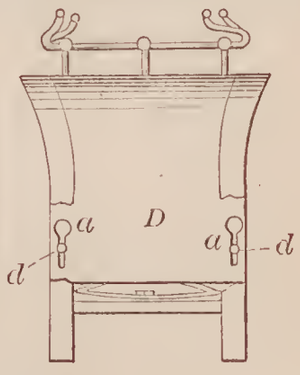


74448—J. F. Thomas—*For Distributing Guano, &c.*

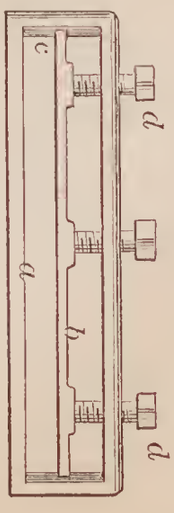


74450—B. Thompson—*Sleigh.*

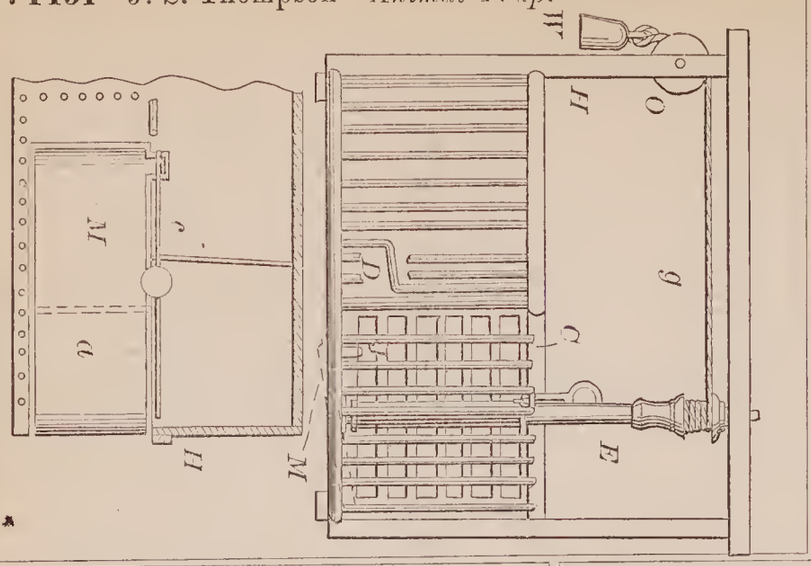




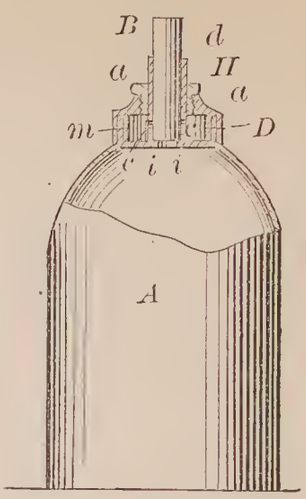
74449—J. L. Thomas—*Belt Coupling.*



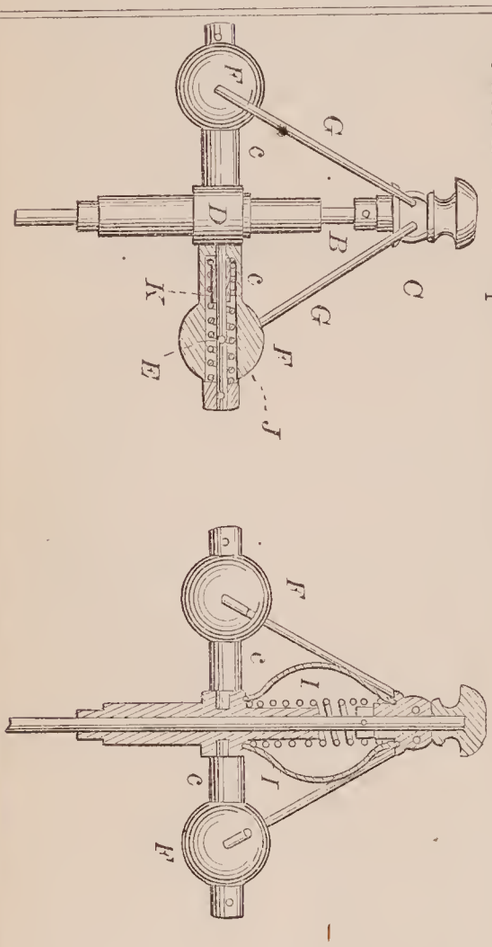
74451—J. S. Thompson—*Animal Trap.*



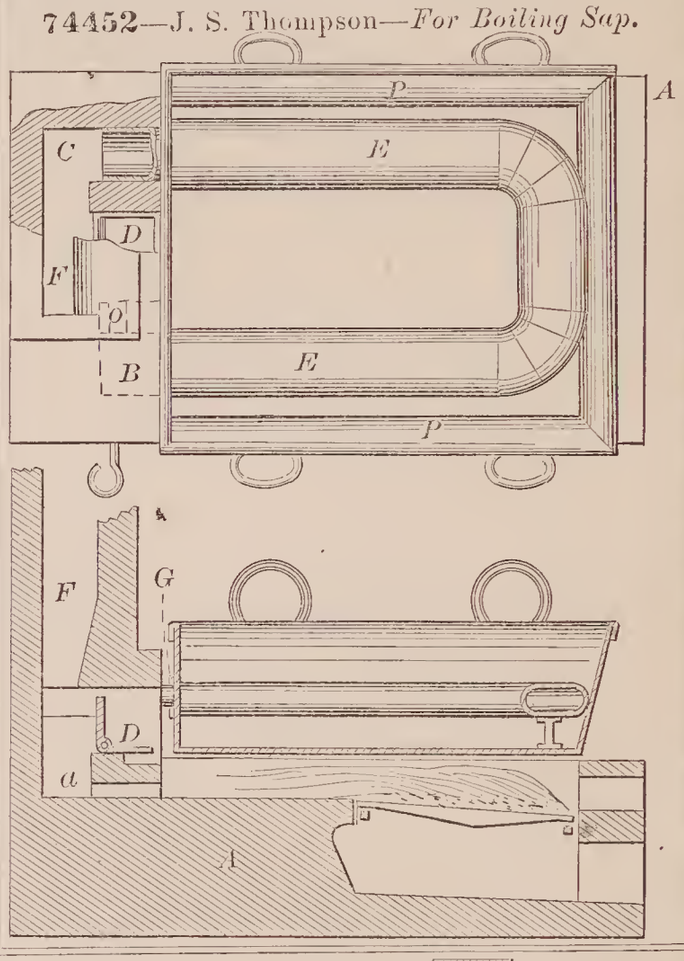
74453—W. W. Timmons—*Soda Water Bottle.*



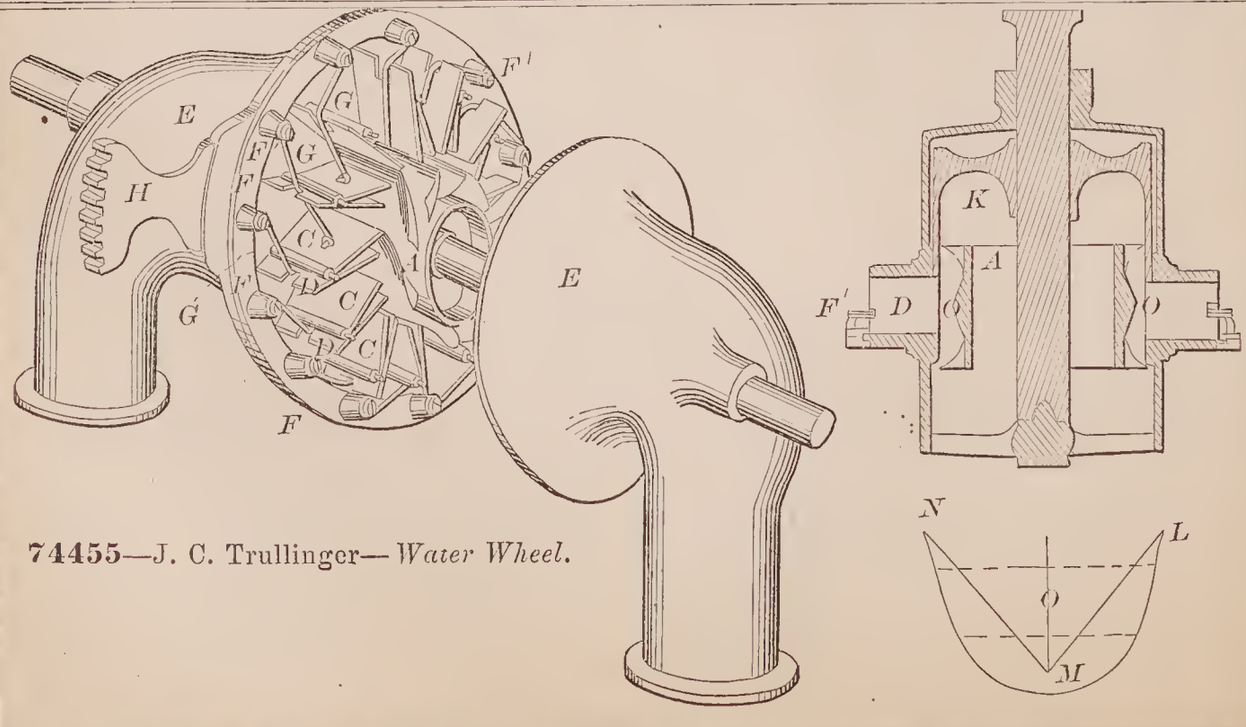
74454—J. Tremper—*Steam Governor.*



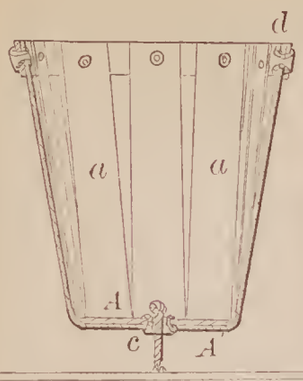
74452—J. S. Thompson—*For Boiling Sap.*



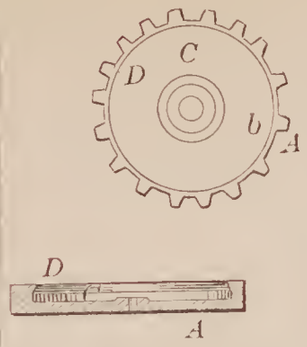
74455—J. C. Trullinger—*Water Wheel.*



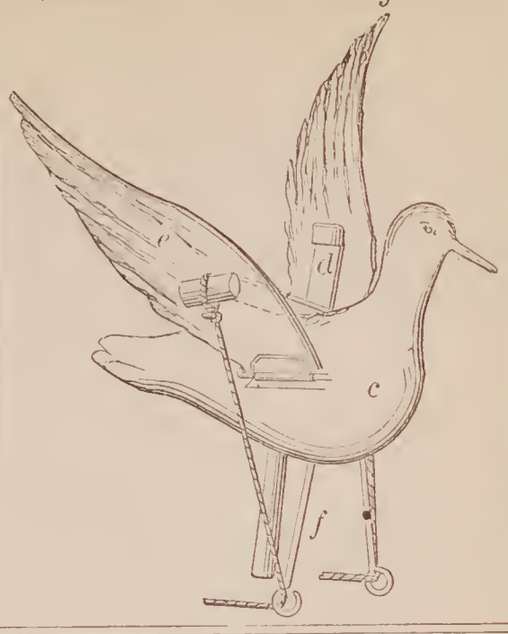
74456—P. B. Viele—*Fruit Basket.*



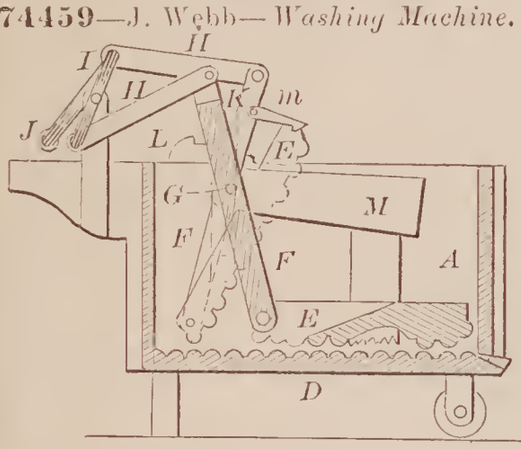
74457—A. Wadsworth—*Watch.*



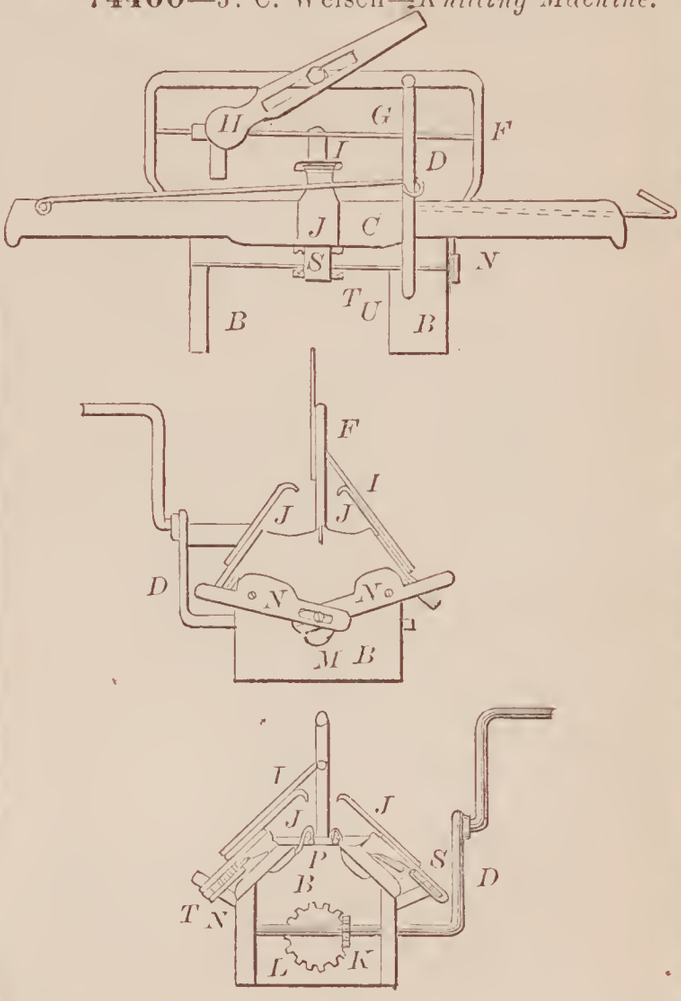
74458—N. Wales—*Decoy Bird*



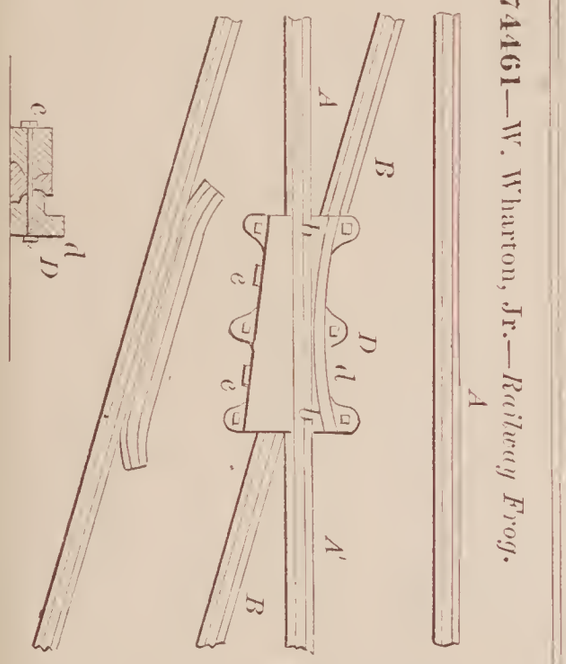
74459—J. Webb—*Washing Machine.*



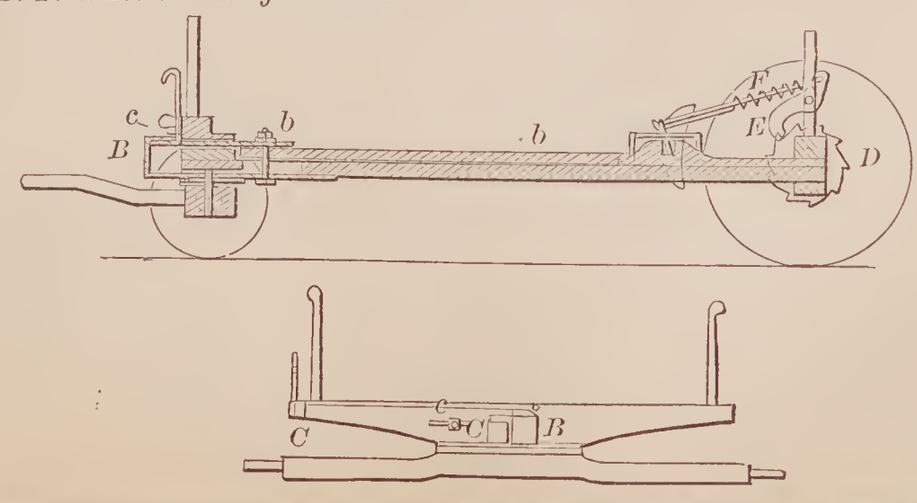
74460—J. C. Welsch—*Knitting Machine.*



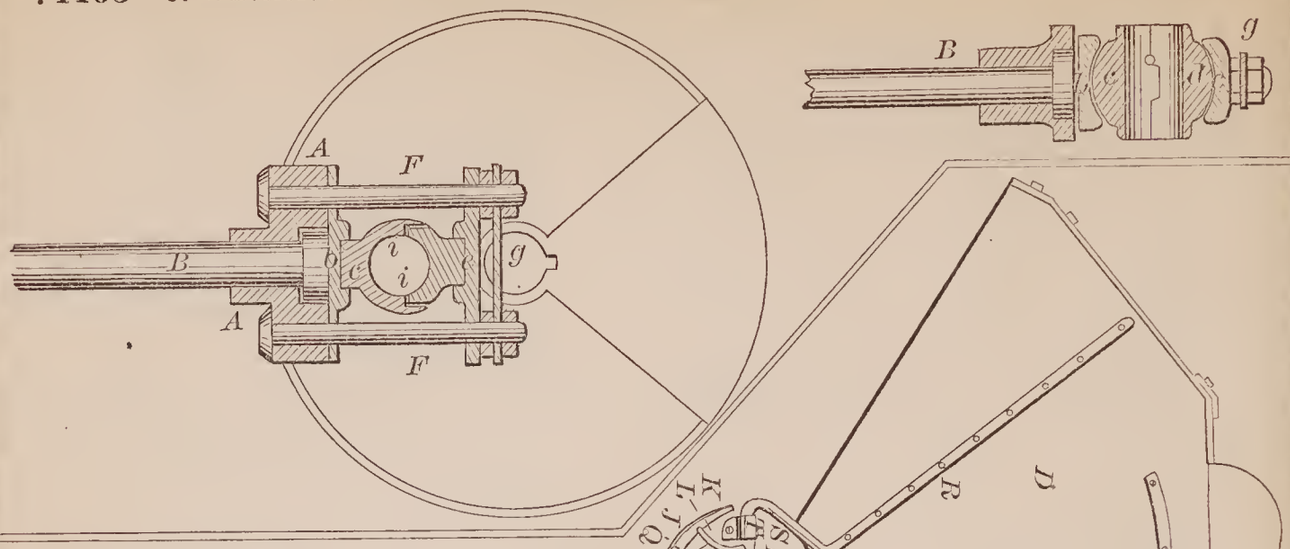
74461—W. Wharton, Jr.—*Railway Frog.*



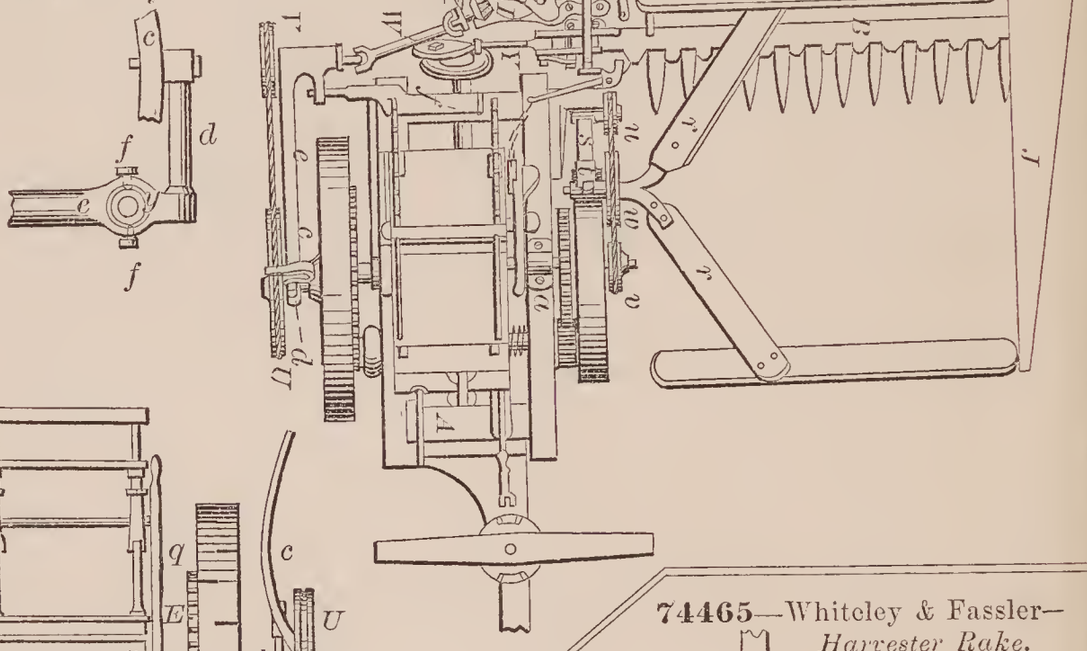
74462—B. F. Wheeler—*Wagon Brake.*



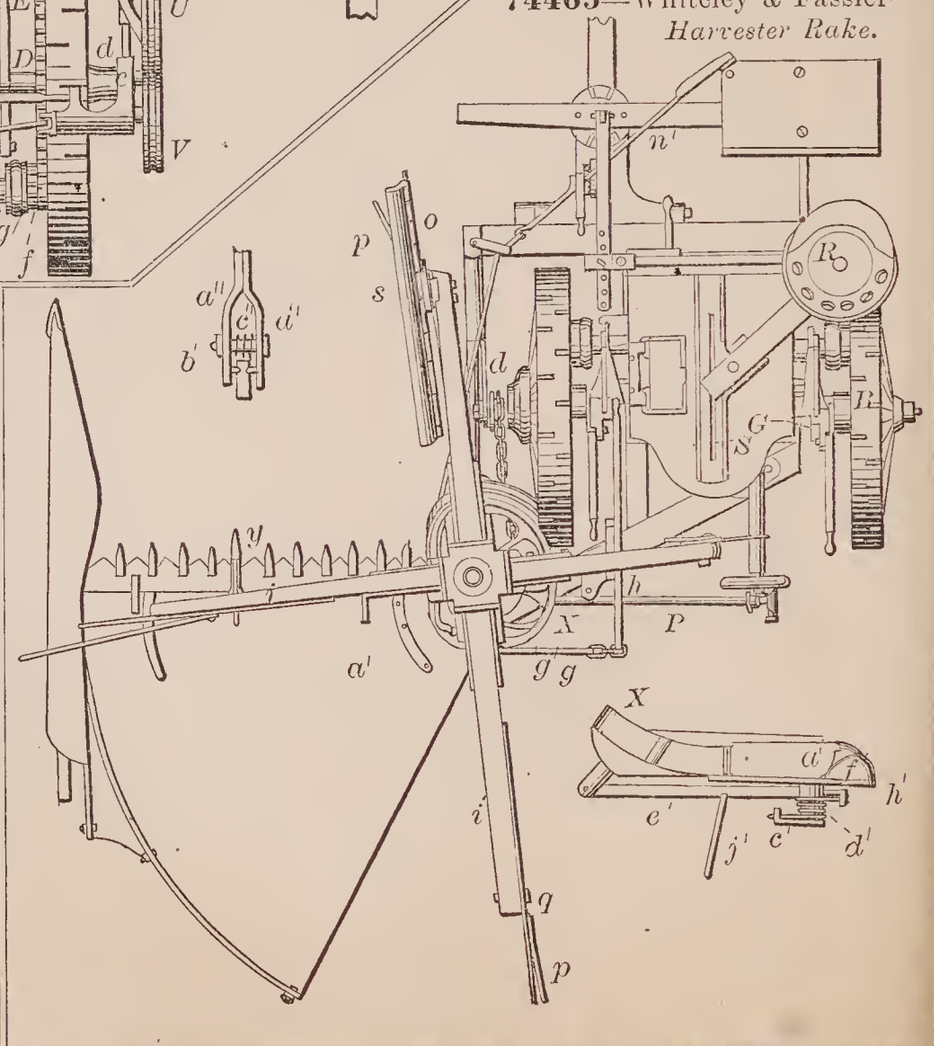
74463—C. Wheeler, Jr.—*Harvester Pitman Connection.*



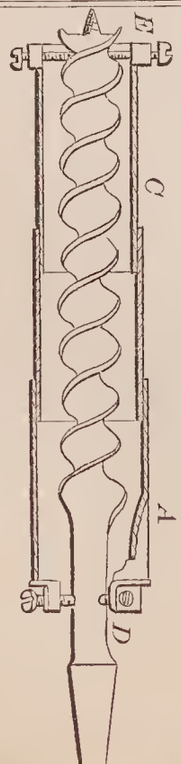
74464—W. N. Whiteley—*Harvester Rake.*



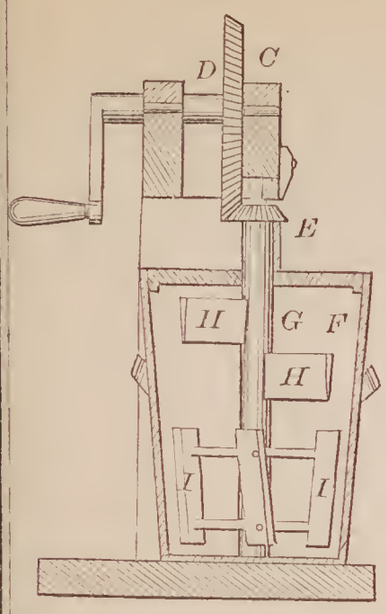
74465—Whiteley & Fassler—*Harvester Rake.*



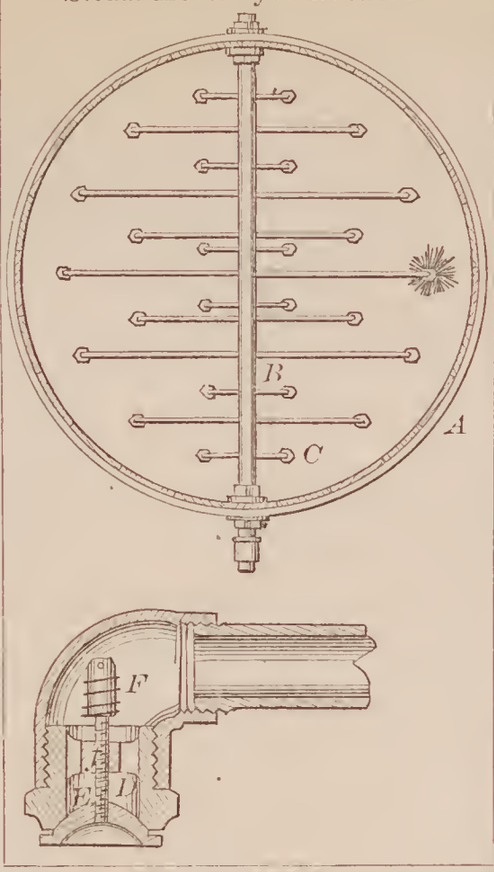
74466—W. E. Whiting—*Auger Gauge.*



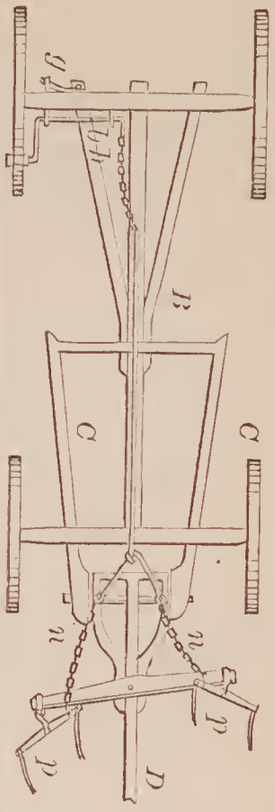
74467—C. B. Williams—*Churn.*



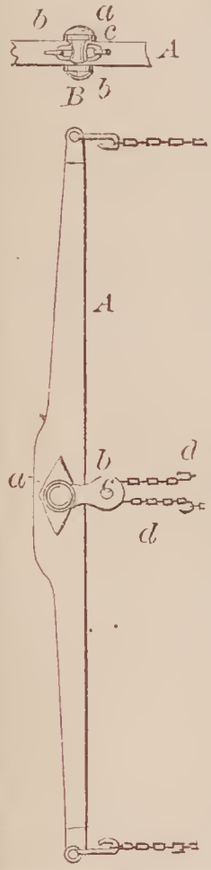
74469—Williams & Yates—*Steam Heater for Brewers.*



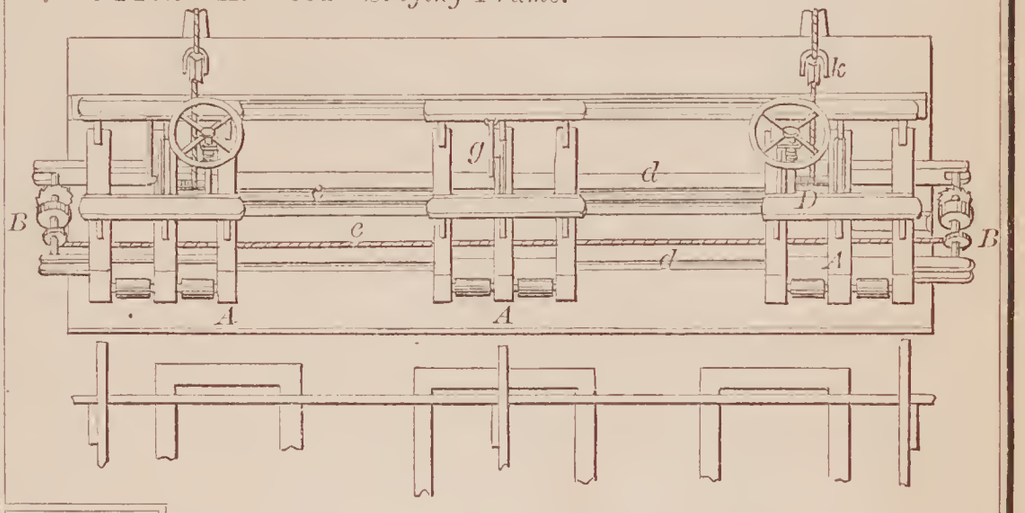
74468—J. A. & W. W. Williams—*Self-Acting Wagon Brake.*

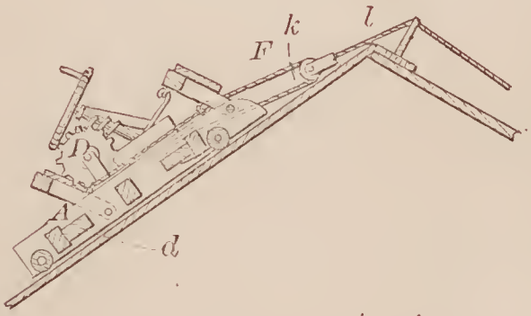


74470—M. V. B. Williamson—*Draught Equalizer for Doubletrees.*



74472—H. Wood—*Staying Frame.*

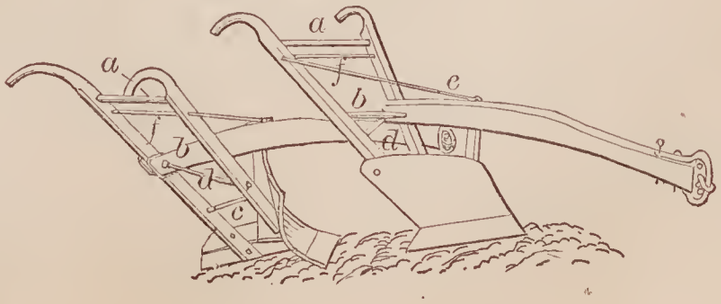




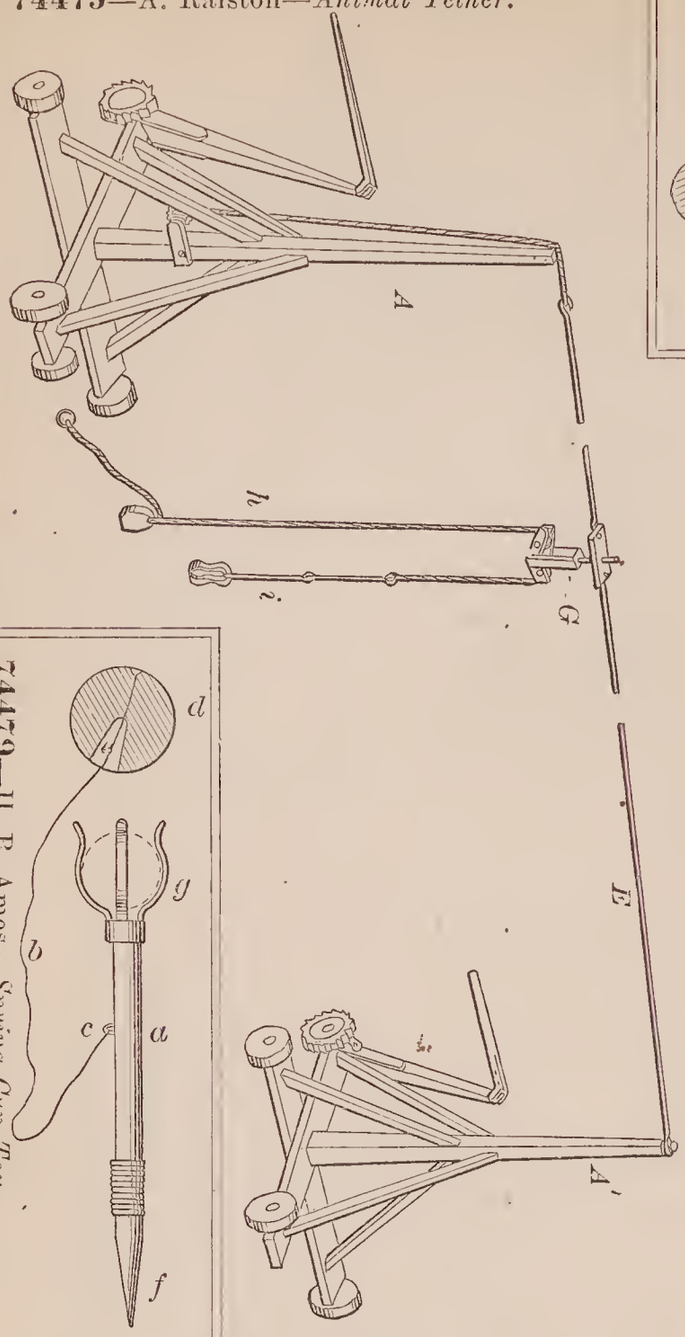
74471—M. V. B. Williamson—*Doubletree.*

74473—J. M. Wood—*Roofing Shoe.*

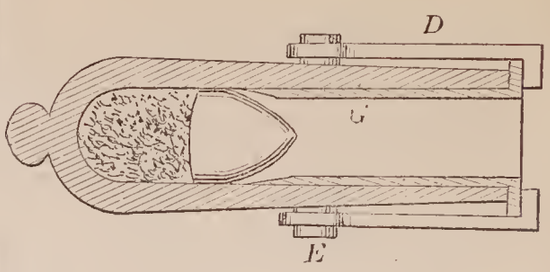
74474—W. G. Young—*Plow.*



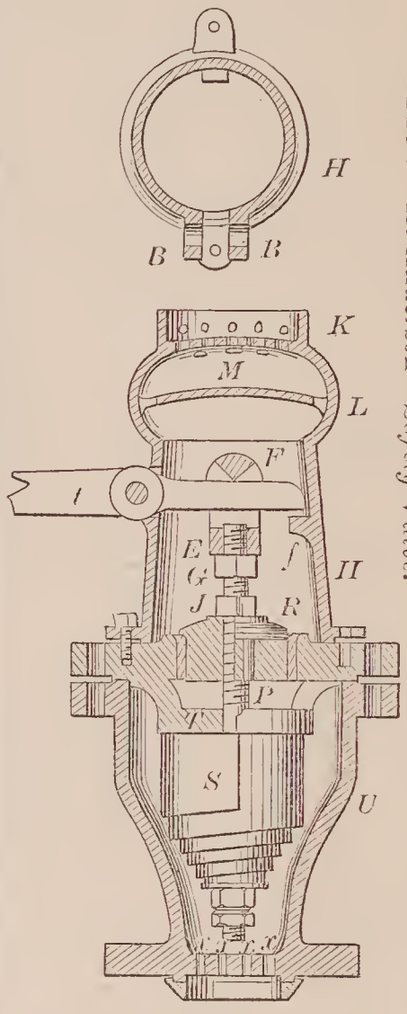
74475—A. Ralston—*Animal Tether.*



74478—F. W. Alexander—*Ordnance.*

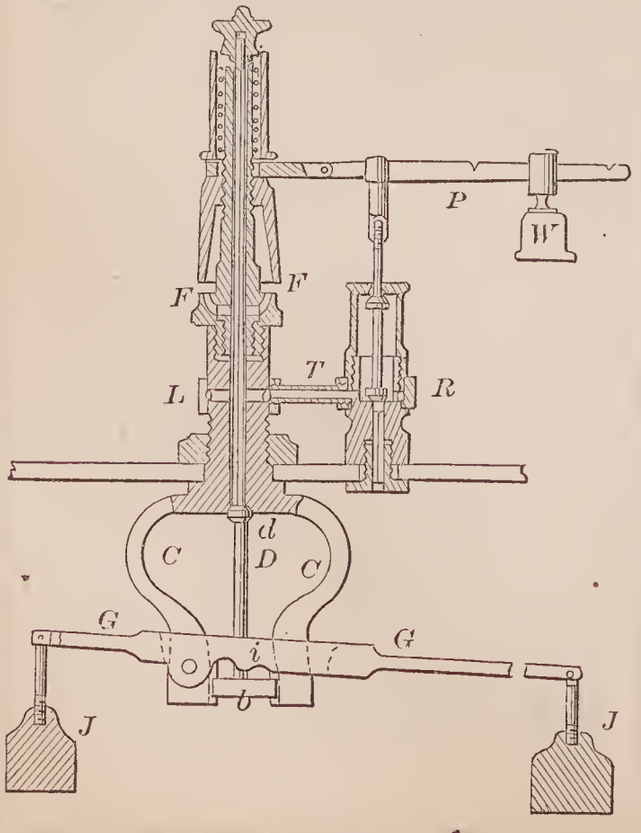


74480—H. Anderson—*Safety Valve.*

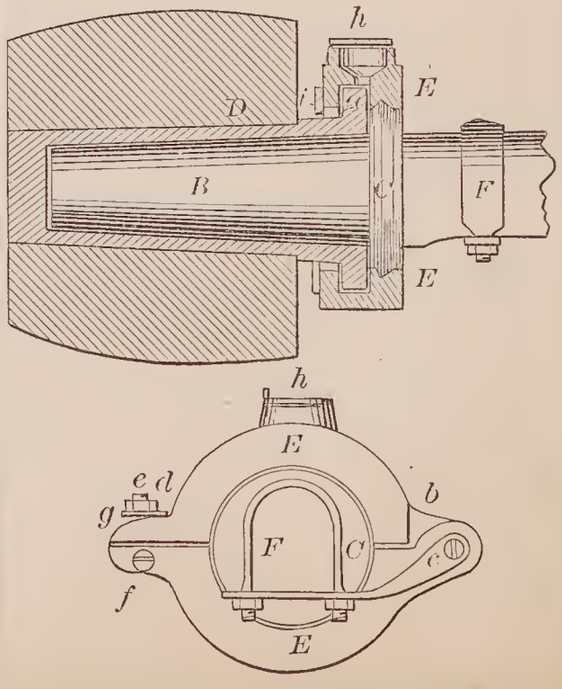


74479—H. B. Ames—*Spring Cup Toy.*

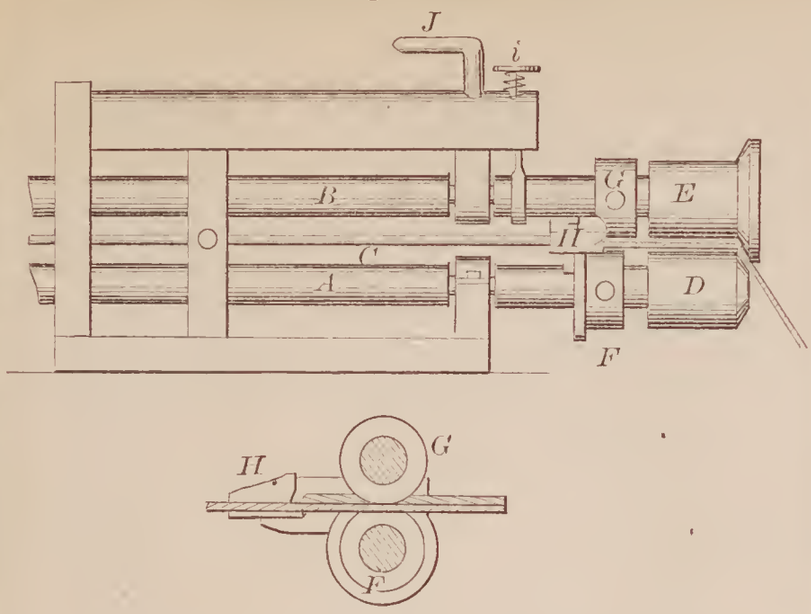
74477—T. B. Akers—*Steam Generator Alarm.*



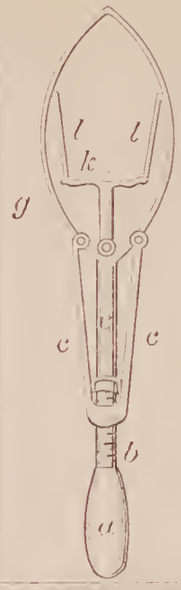
74476—L. Adams—*Axle Lubricator.*



74481—P. W. Armstrong—*Tinners' Die.*

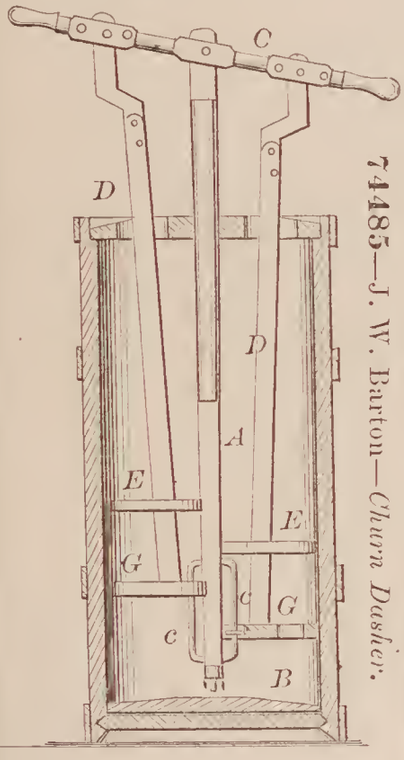


74482—B. Atkinson—*Pessary.*

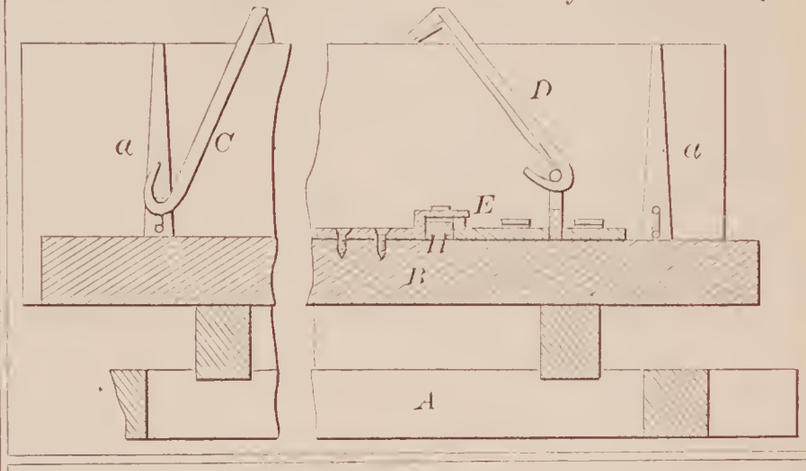


74483—J. Barker—*Separator Sieve.*

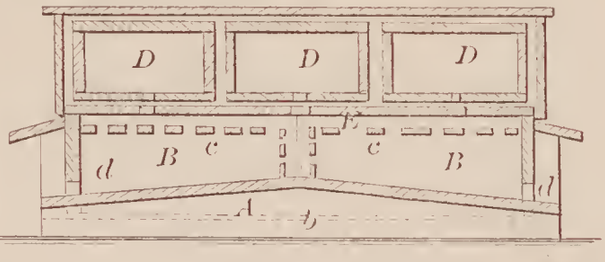
74485—J. W. Barton—*Churn Dasher.*



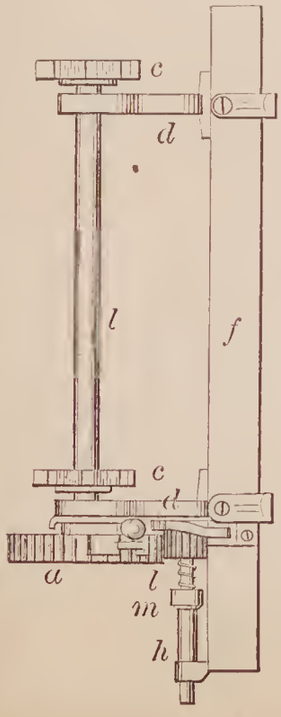
74486—H. Batchelder—*Head Block for Saw Mills.*

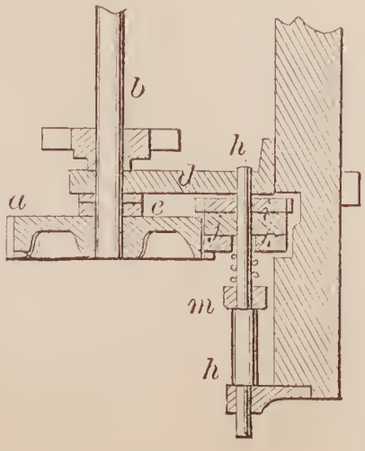


74487—D. S. Bear—*Beehive.*



74488—A. M. Beard—*Gearing.*

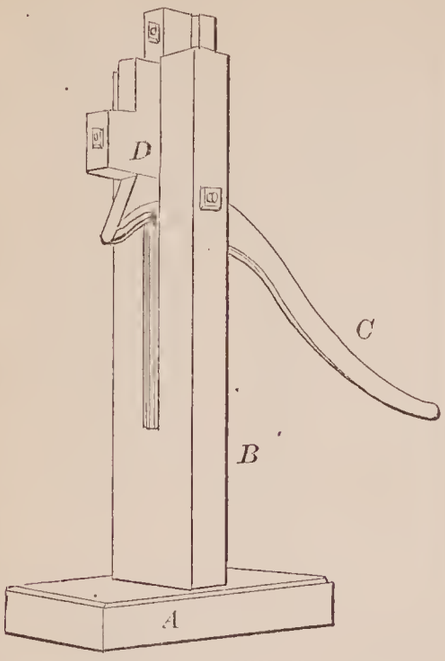




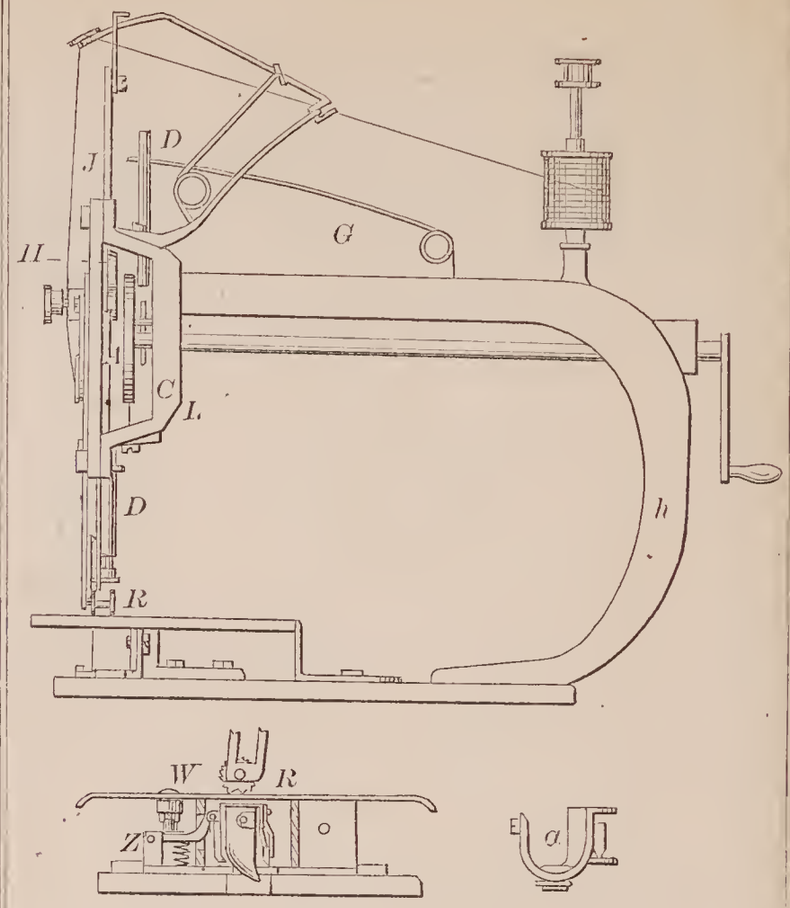
74489—J. A. Bidwell—*Wood Screw.*

74490—J. A. Bidwell—*Screwdriver and Boring Tool.*

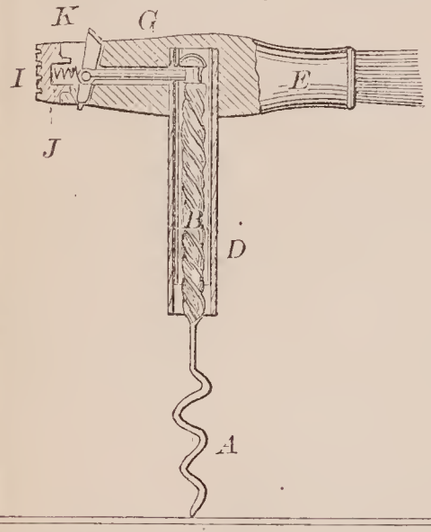
74491—Bigfin & Bennett—*Wagon Jack.*



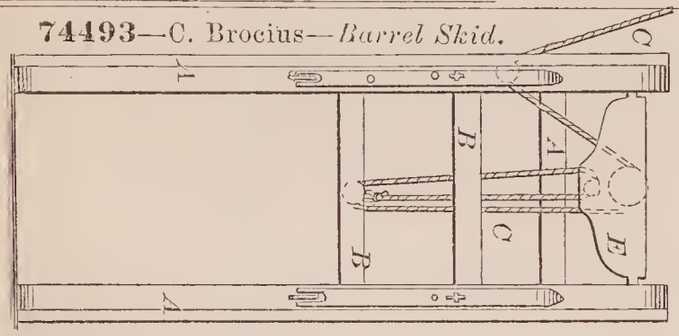
74492—F. M. Bradley—*Sewing Machine.*

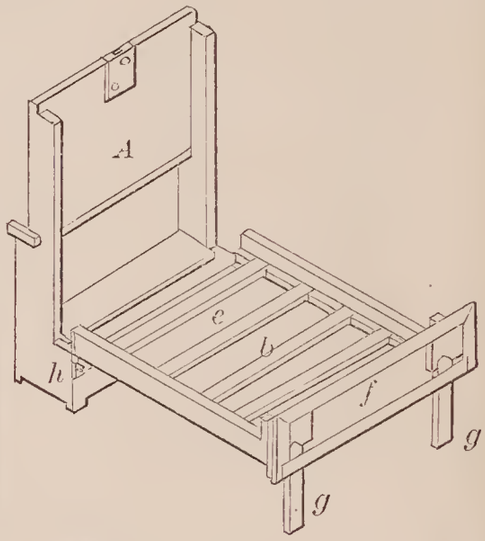


74495—J. Bussey—*Corkscrew.*



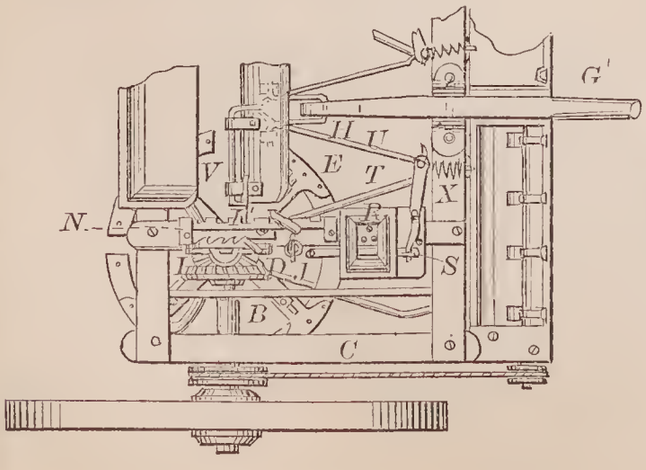
74493—C. Brocius—*Barrel Skid.*

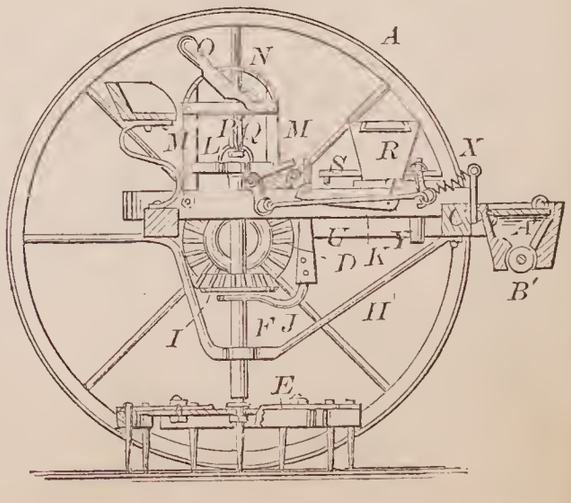




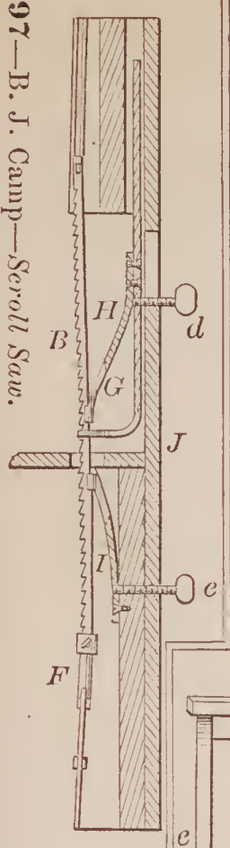
74494—S. S. Burr—*Bedstead.*

74496—W. P. Byler—*Corn Planter, &c.*

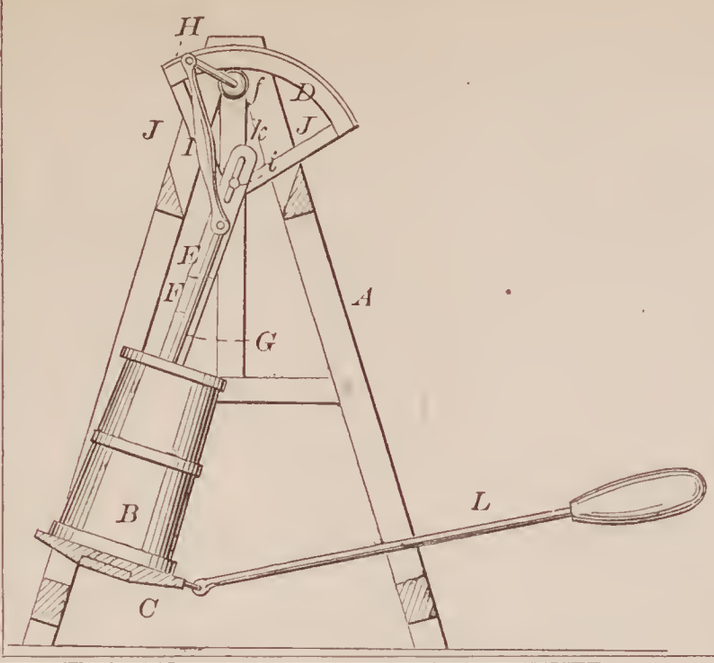




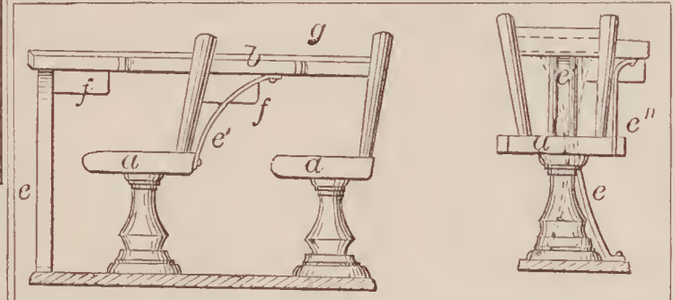
74497—B. J. Camp—*Scroll Saw.*



74498—Carpenter & Slaght—*Churn.*

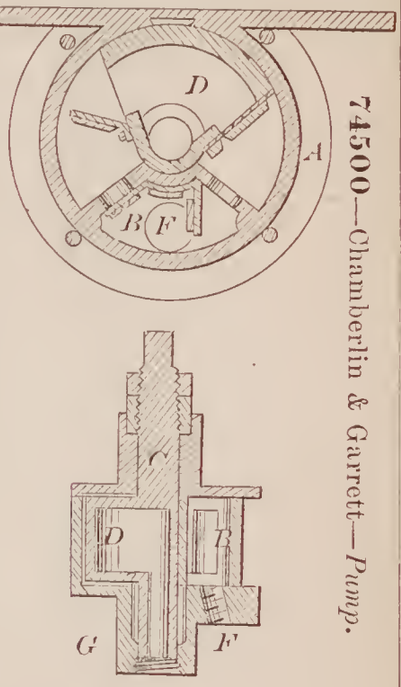


74499—J. H. Chadwick—*Carriage Spring Brace.*

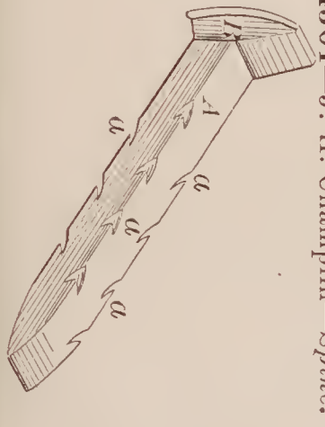


74504—M. B. Cochran—*School Desk and Seat.*

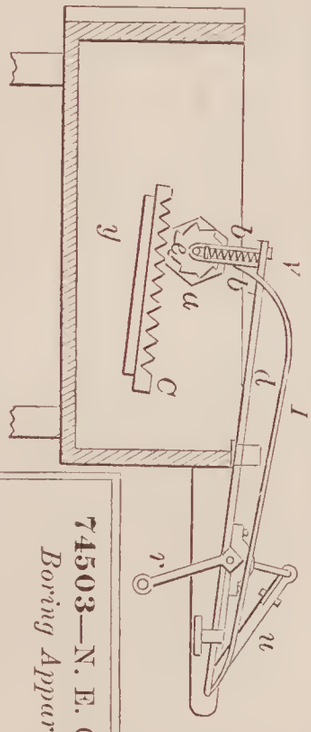
74500—Chamberlin & Garrett—*Pump.*



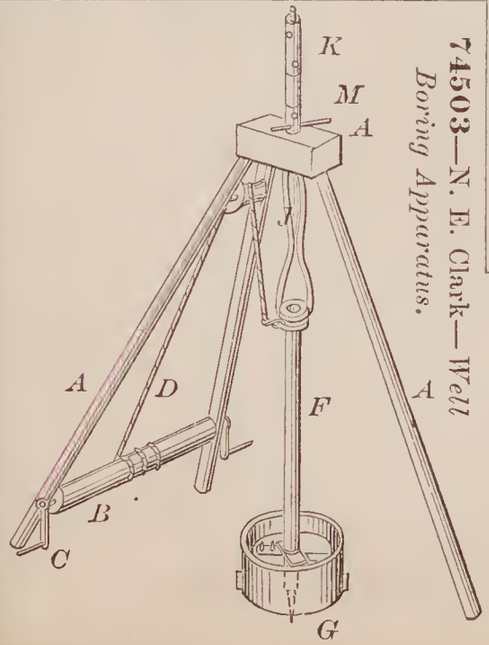
74501—J. H. Champlin—*Spike.*

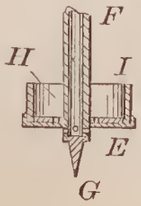


74502—Clark & Davis—*Washing Machine.*

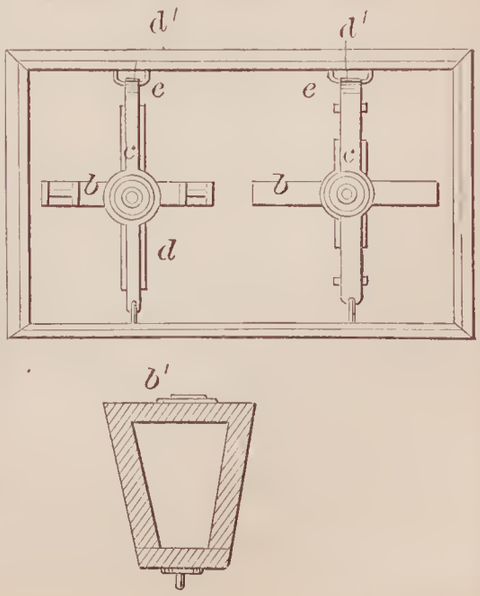


74503—N. E. Clark—*Well Boring Apparatus.*

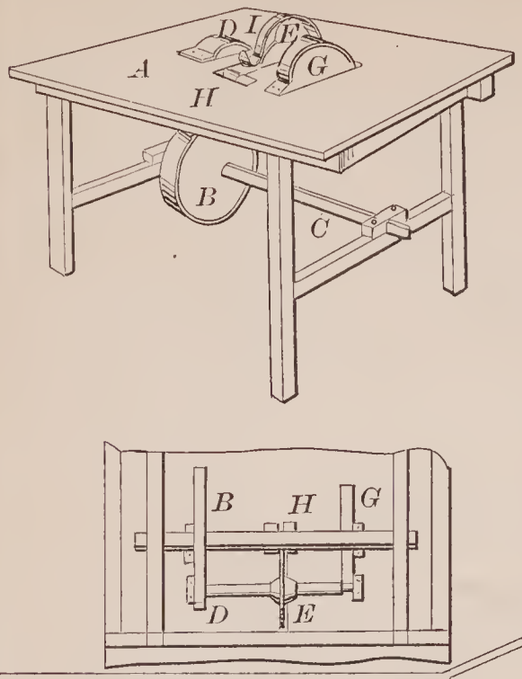




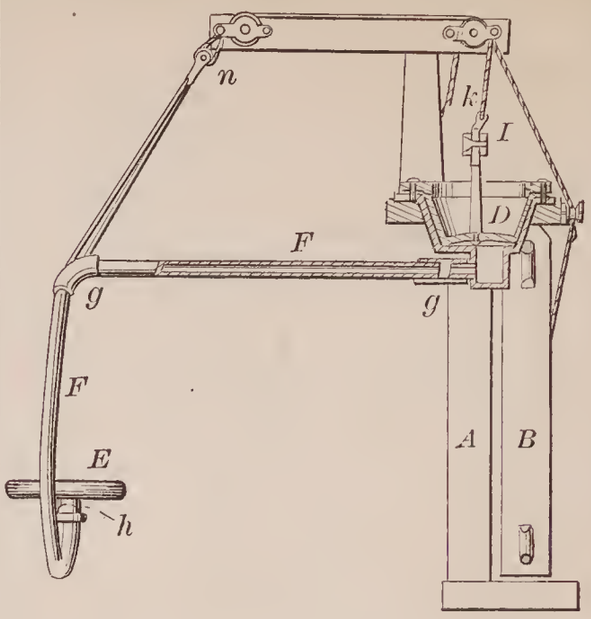
74505—J. T. Coe—*Churn.*



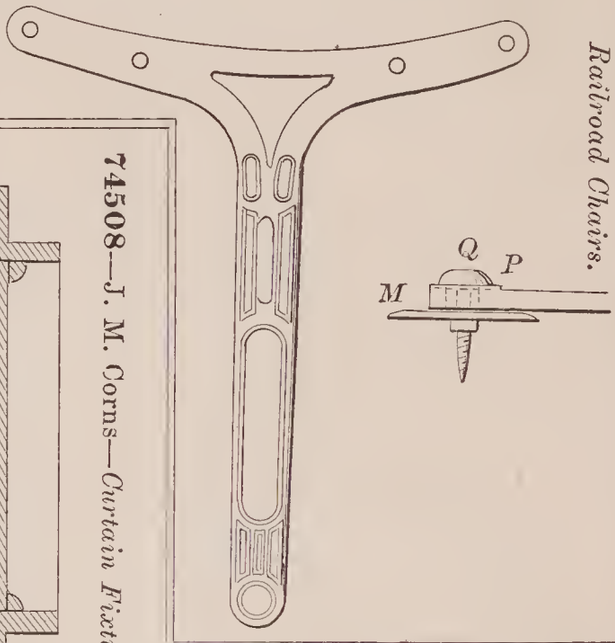
74506—J. Collins, Jr.—*For Cutting Rags.*



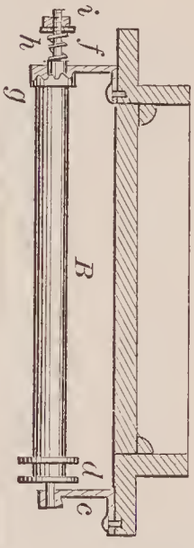
74507—L. O. Colvin—*Cow Milking Machine.*



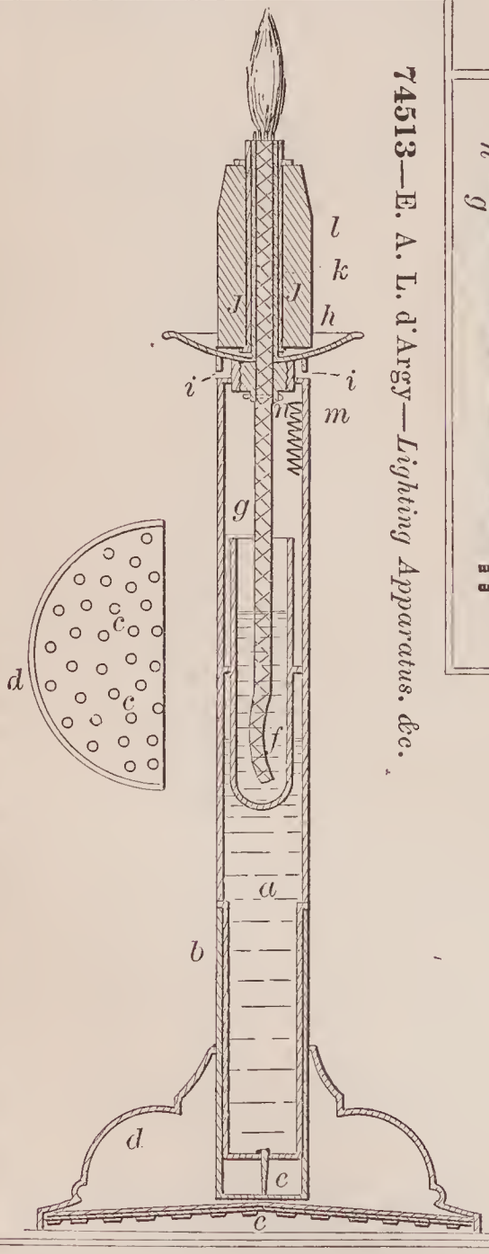
74510—W. G. Creamer—*Seat Arm for Railroad Chairs.*



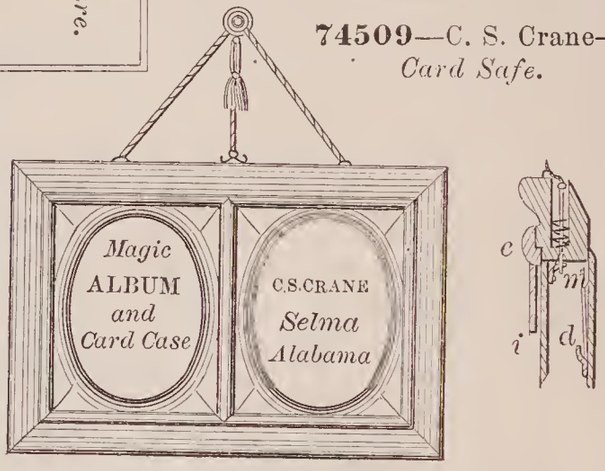
74508—J. M. Corns—*Curtain Fixture.*



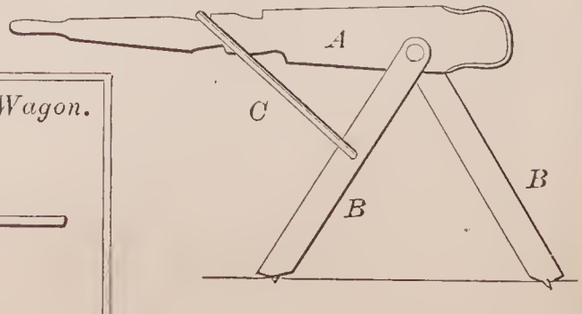
74513—E. A. L. d'Argy—*Lighting Apparatus. &c.*



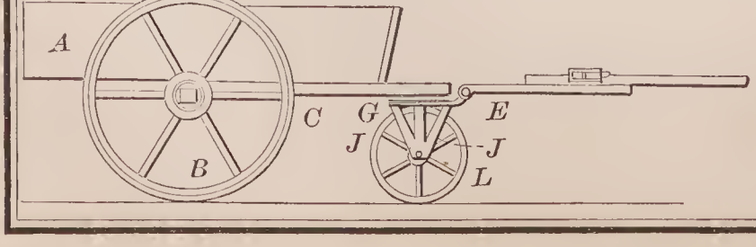
74509—C. S. Crane—*Card Safe.*



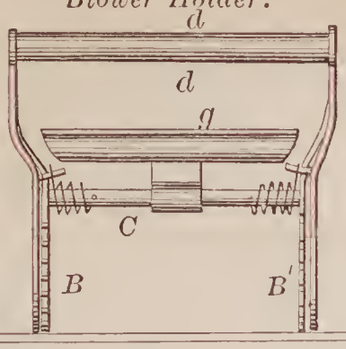
74512—A. M. Culver—*Lifting Jack.*



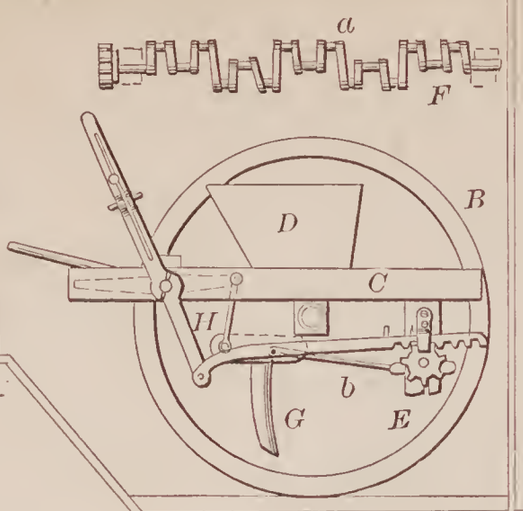
74511—L. T. Crockett—*Three-Wheeled Farm Wagon.*



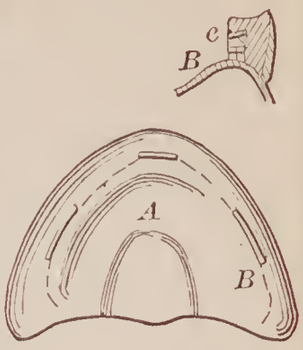
74514—J. B. F. Davidge—*Blower Holder.*



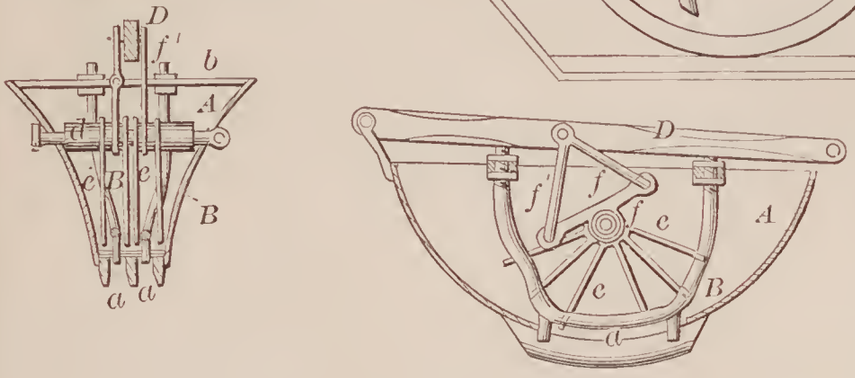
74515—C. F. Davis—*Grain Drill.*



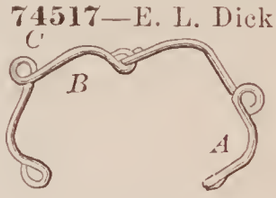
74516—G. L. Derr—*Setting Artificial Teeth.*



74518—Doolittle & Crowder—*Cotton Seed Planter.*

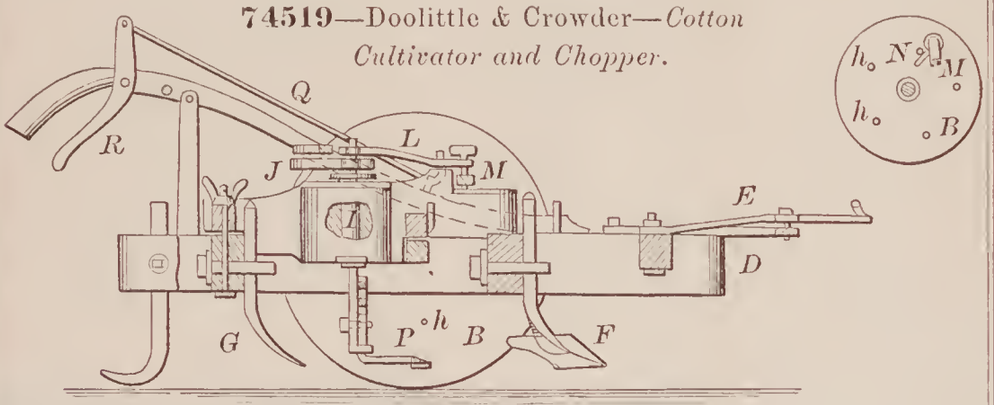


74517—E. L. Dickey—

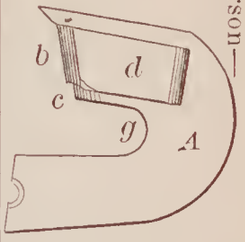


Bag Clasp.

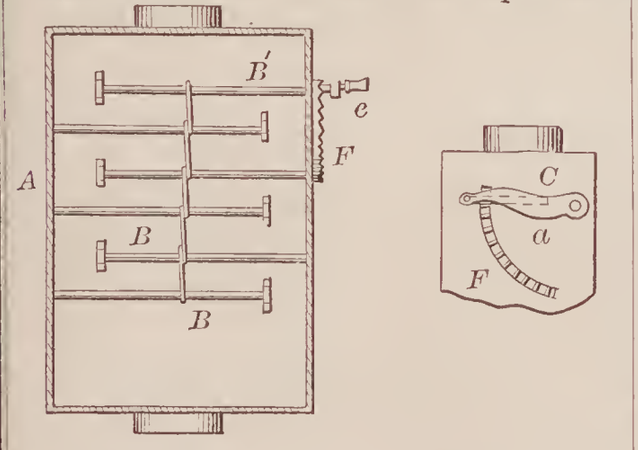
74519—Doolittle & Crowder—*Cotton Cultivator and Chopper.*



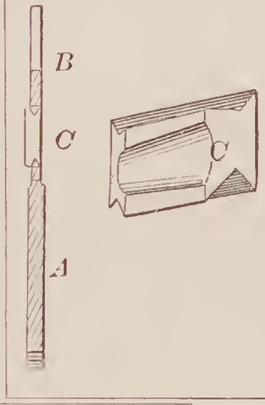
74521—J. E. Emerson—*Saw.*



74520—Dowe & Colton—*Stove Pipe Drum.*

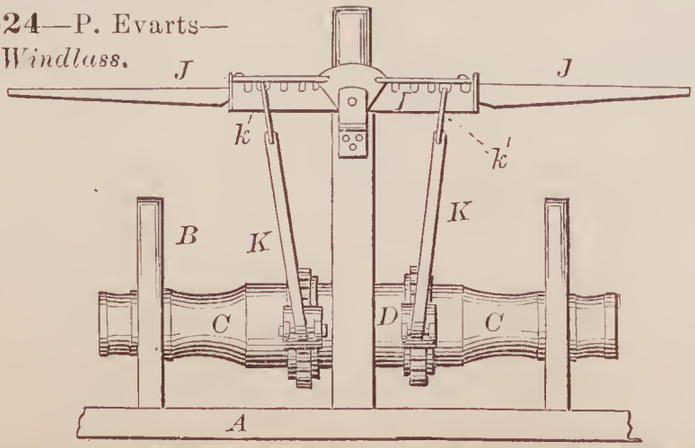


74522—Emerson & Winsor—*Saw.*

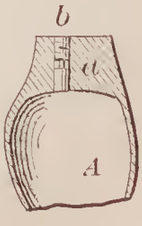


74523—Emerson & Winsor—*Saw.*

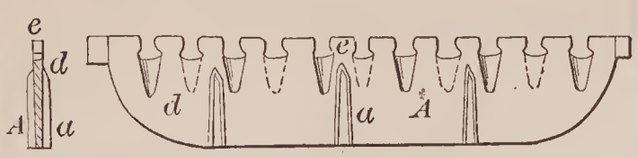
74524—P. Evarts—*Windlass.*



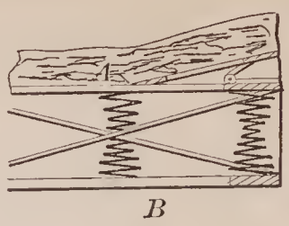
74525—J. Fearn—*Boot Heel.*

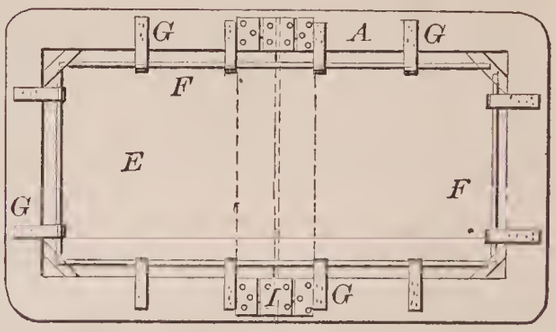


74526—A. C. Fletcher—*Grate Bar.*

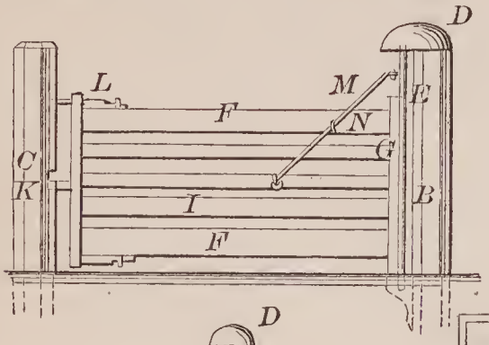


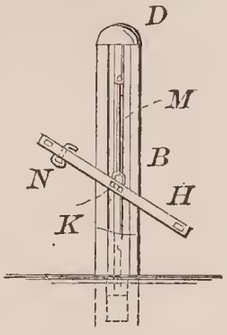
74528—A. Gebhard—*Spring Mattress.*



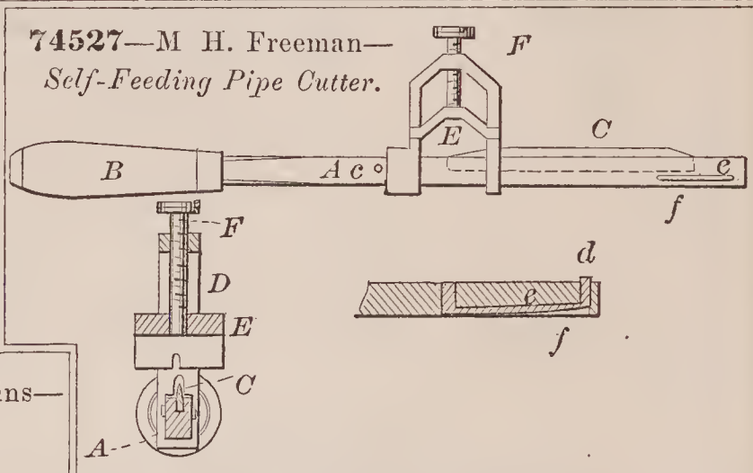


74529—C. E. Goodwin—*Farm Gate.*

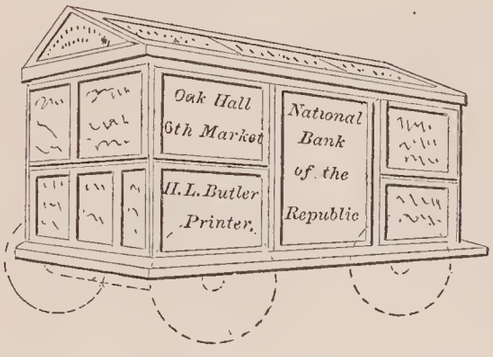




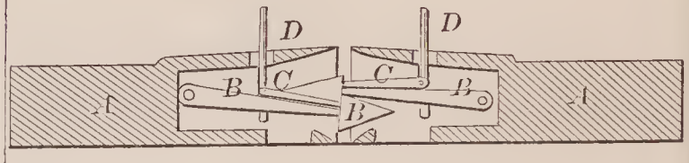
74527—M H. Freeman—*Self-Feeding Pipe Cutter.*

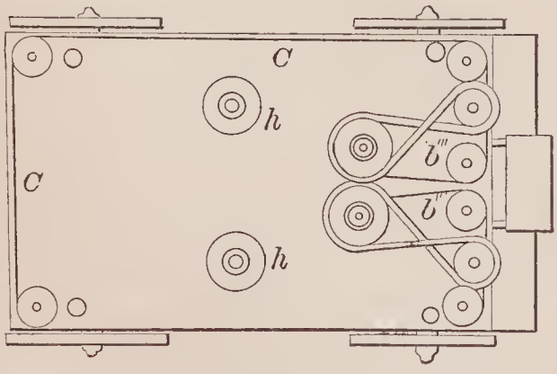


74530—Harris, Roseman & Hutchins—*Advertising Carriage.*



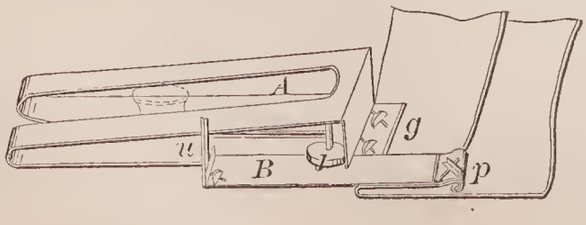
74532—J C. Heaton—*Car Coupling.*



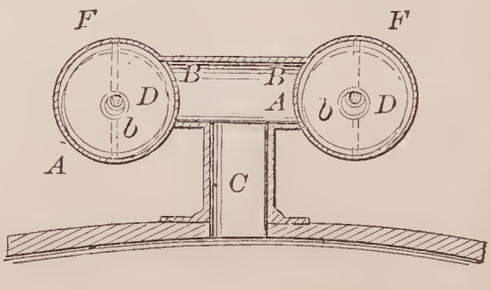


74531—J. R. Hathaway—*Burial Case.*

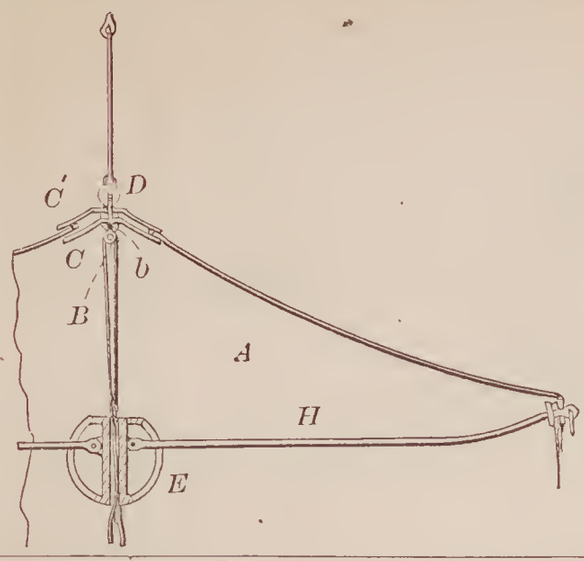
74533—W. H. Heyer—*Hemmer, Marker, &c., for Sewing Machines.*



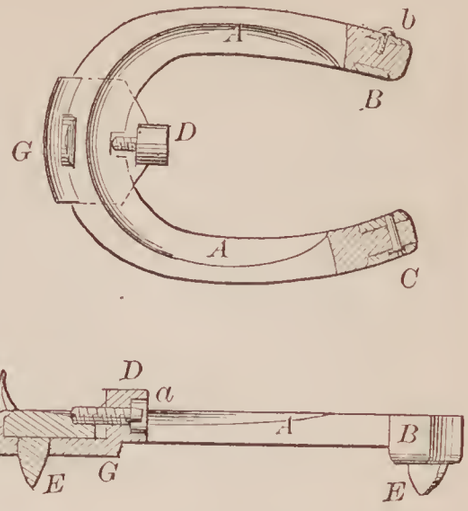
74534—M. T. Hitchcock—*Car Ventilator.*



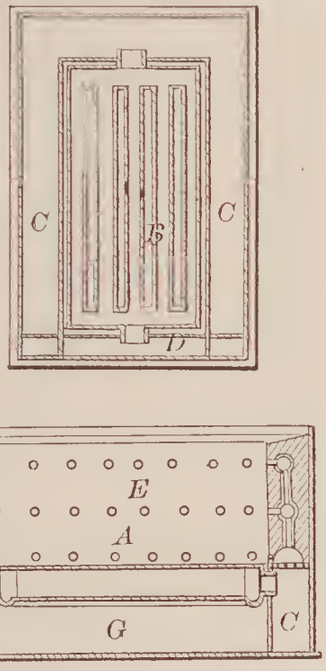
74535—J. B. Holmes—*Canopy for Bed Nettings.*



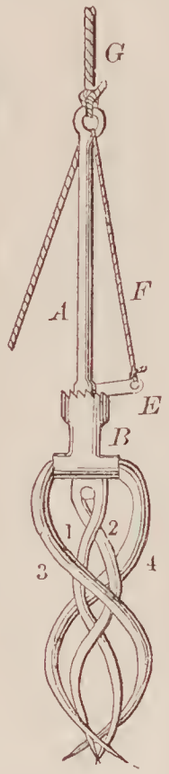
74539—N. W. Hubbard—*Horse Shoe.*



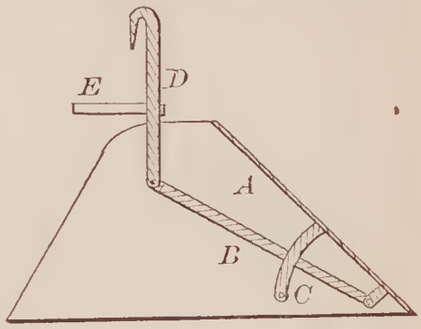
74536—M. L. Horton—*Furnace.*



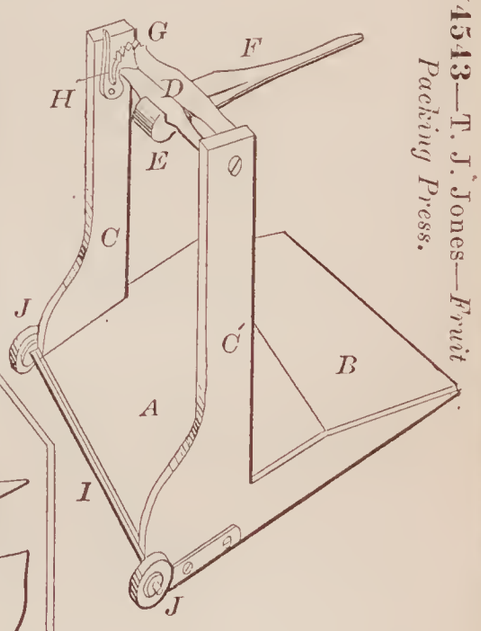
74538—D. J. Howenstine—*Horse Hay Fork.*



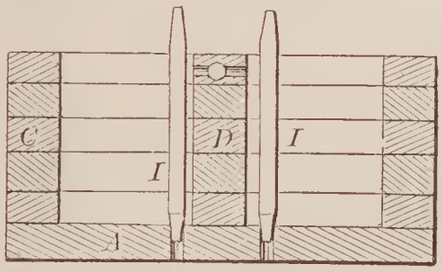
74537—W. H. Horton—*Lamp Shade.*



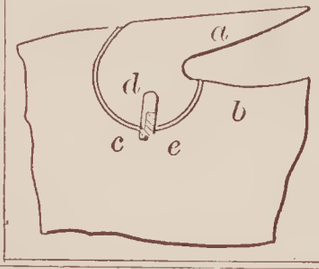
74543—T. J. Jones—*Fruit Packing Press.*



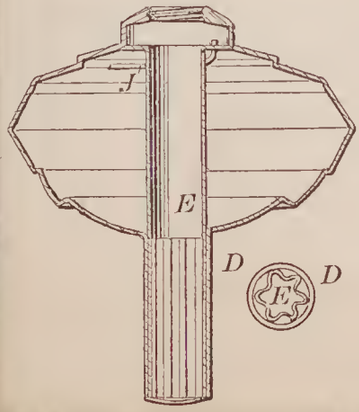
74540—J. Huber—*Tan Vat.*



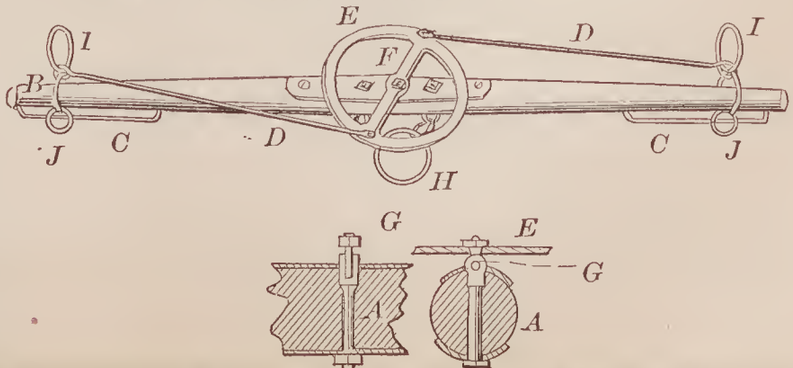
74541—E. Humphrey—*Saw.*



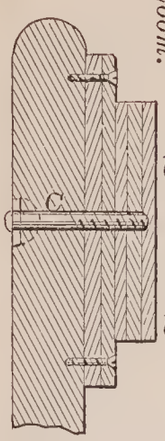
74542—J. Ingersoll—*Lamp.*



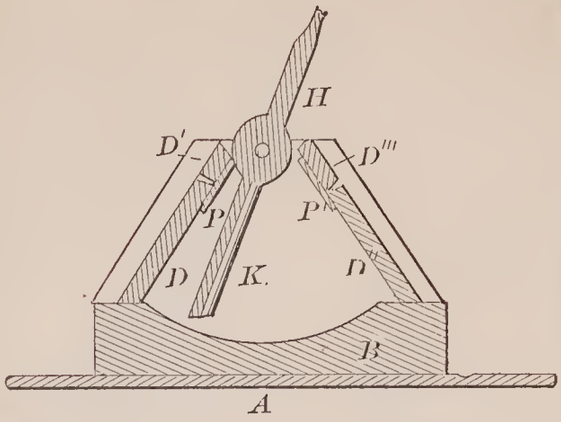
74544—T. J. Jones—*Neck Yoke.*



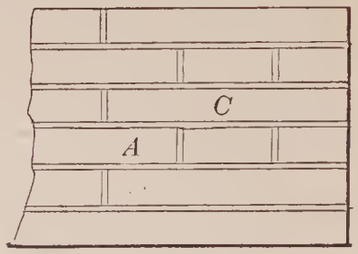
74545—R. Joslin—*Picker for Loom.*



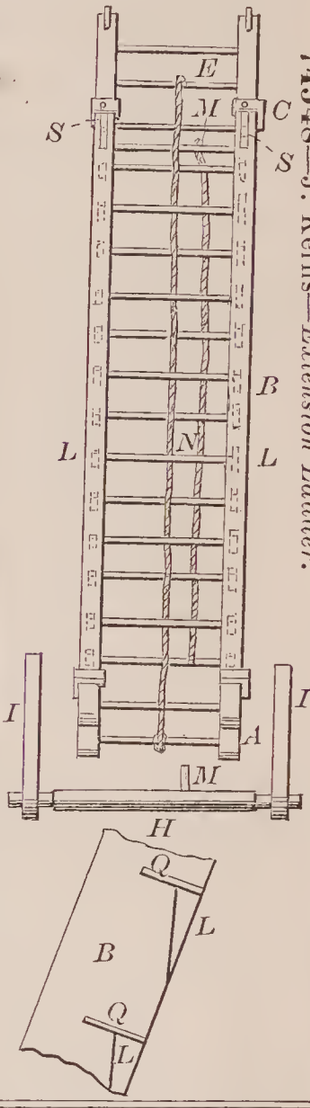
74546—S. Keen—*Butter Worker.*



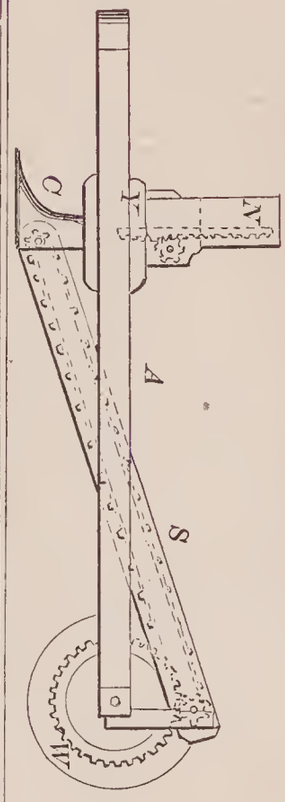
74547—J. Kelly—*Sea Wall.*



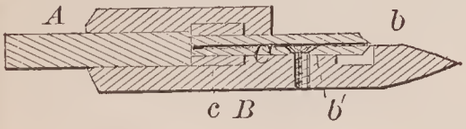
74548—J. Kerns—*Extension Ladder.*



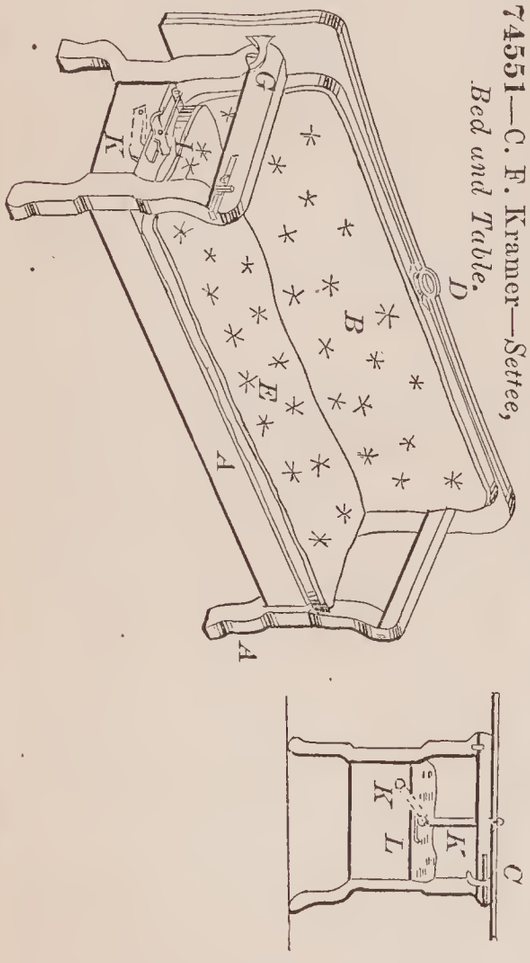
74549—J. King—*Ditching Machine.*



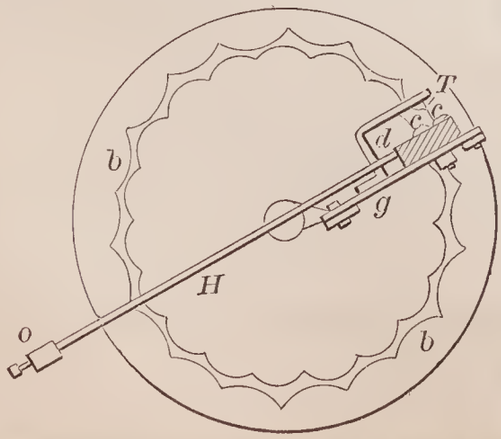
74550—T., R. & S. Knowles—*Harvester Cutter.*



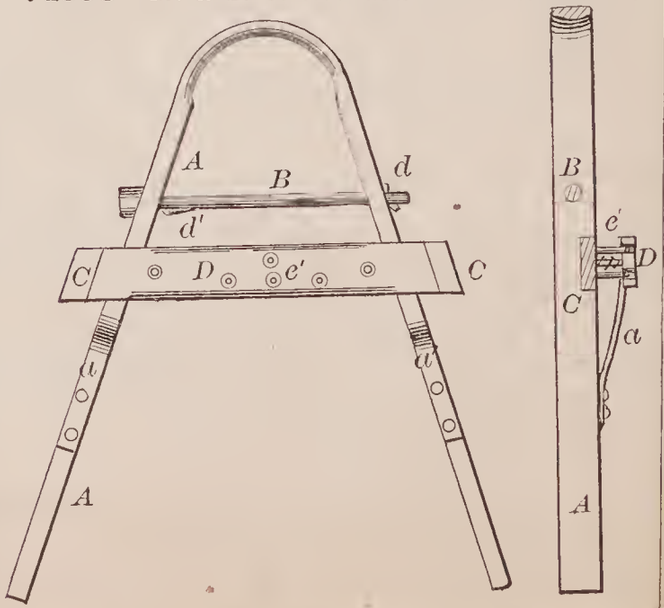
74551—C. F. Kramer—*Settee, Bed and Table.*



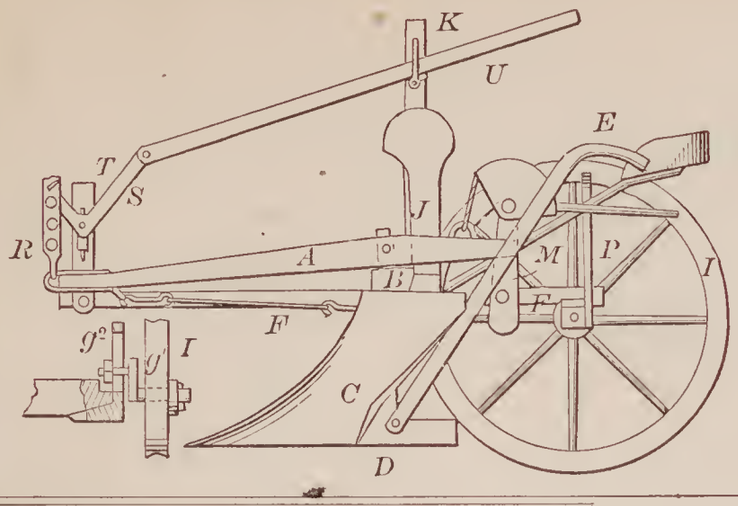
74552—I. Lancester—*Harvester.*



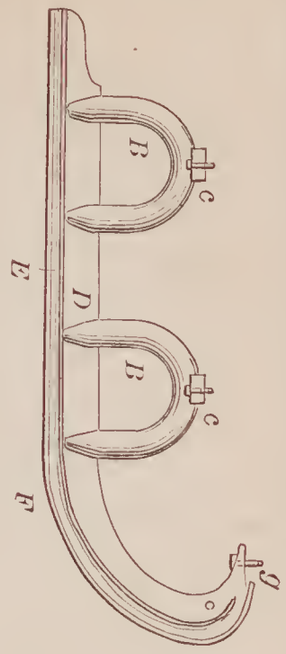
74553—M. & S. C. Leonard—*Animal Tether.*



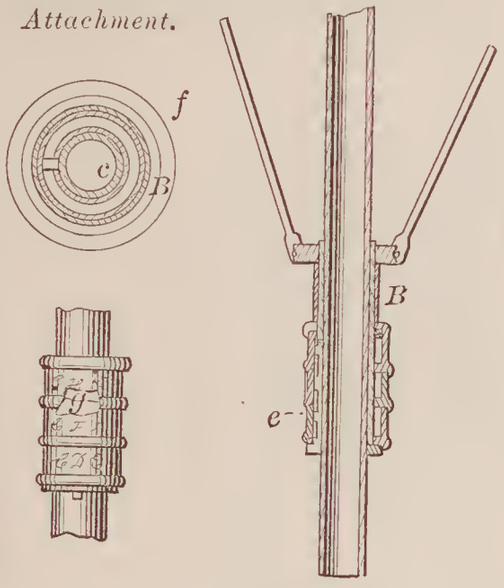
74554—E. Levee—*Sulky Plow*



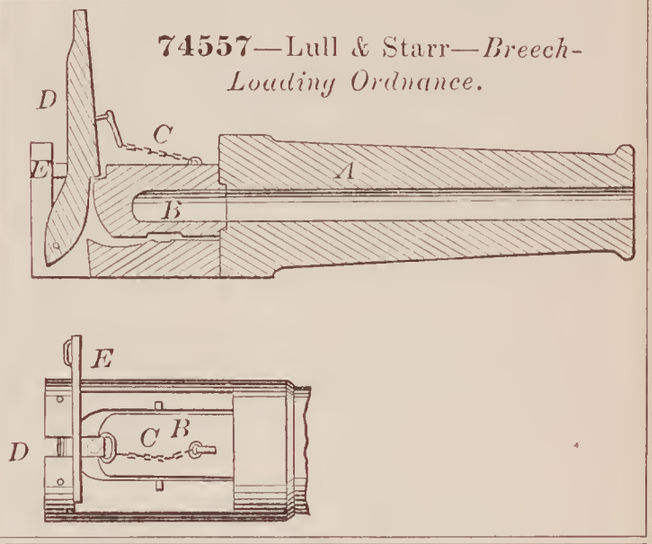
74556—Lockwood & Frederick—*Sleigh Runner.*



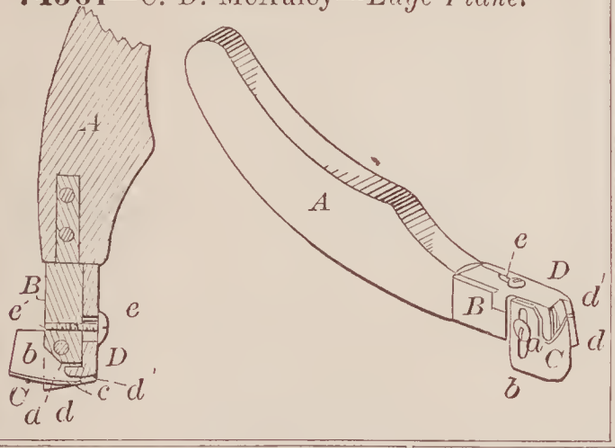
74555—Lieb & Crane—*Umbrella Attachment.*



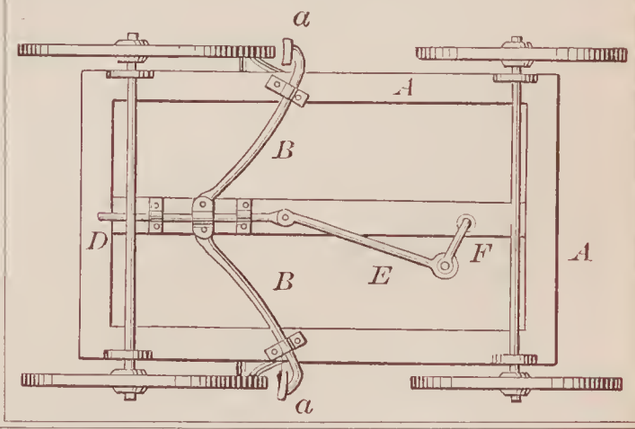
74557—Lull & Starr—*Breech-Loading Ordnance.*



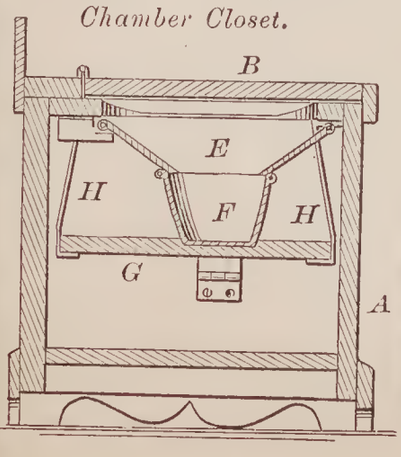
74561—C. D. McAuley—*Edge Plane.*



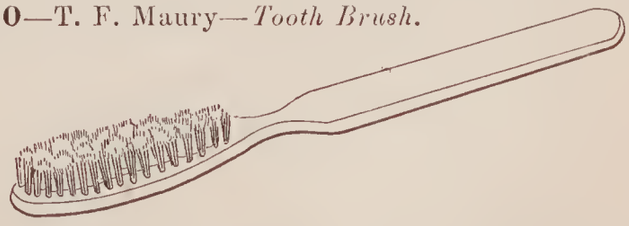
74559—H. B Marshall—*Vehicle Brake.*



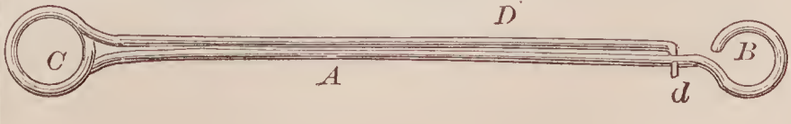
74558—W. J. Lyman—*Chamber Closet.*



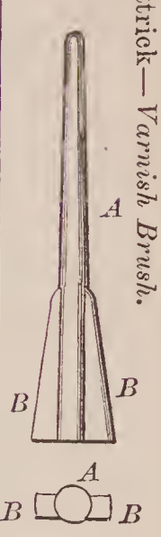
74560—T. F. Maury—*Tooth Brush.*



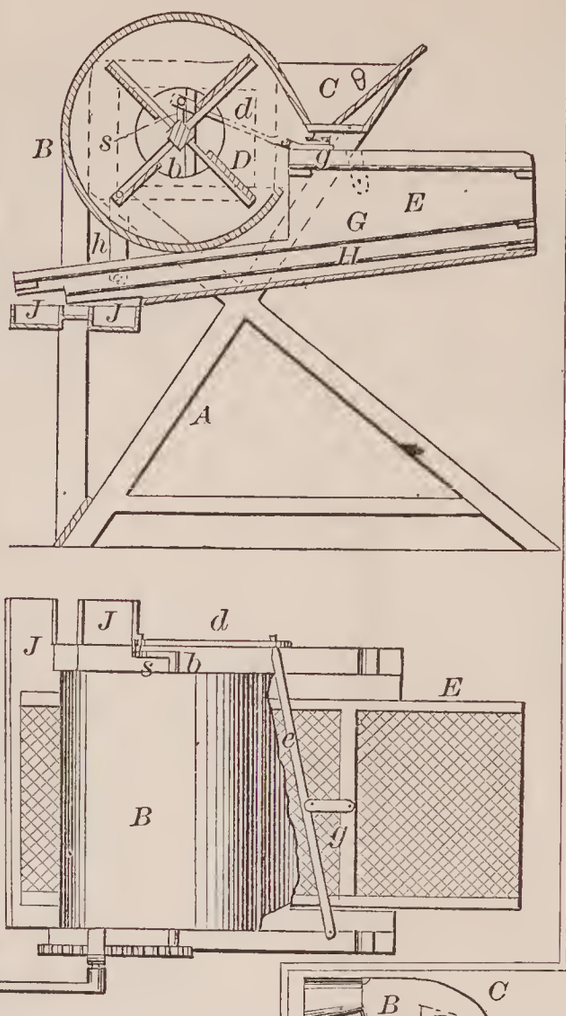
74562—L. P. McCarty—*Newspaper File.*



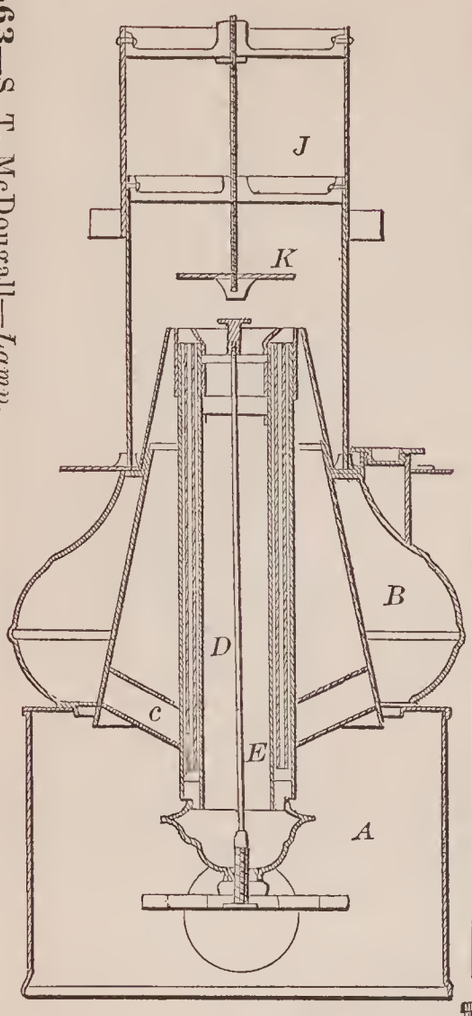
74566—J. McKittrick—*Varnish Brush.*



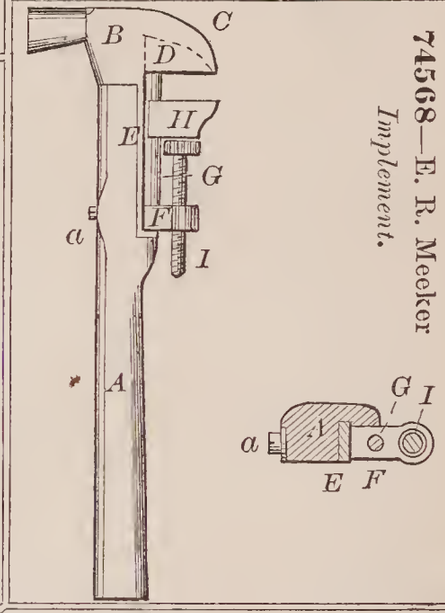
74567—S. McMillan—*Fanning Mill.*



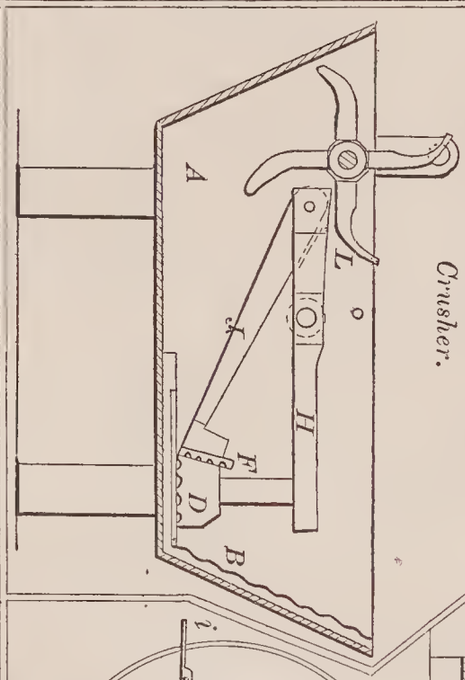
74563—S. T. McDougall—*Lamp.*



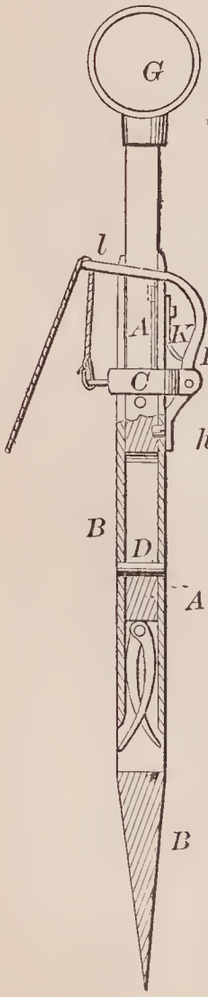
74568—E. R. Meeker *Implement.*

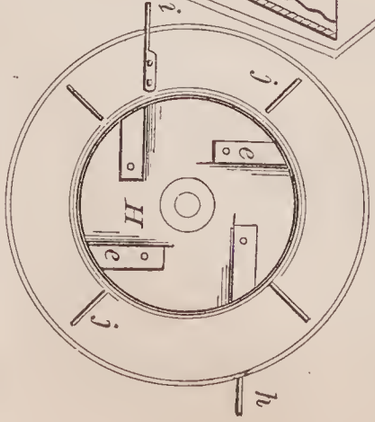


74564—S. T. McDougall—*Quartz Crusher.*

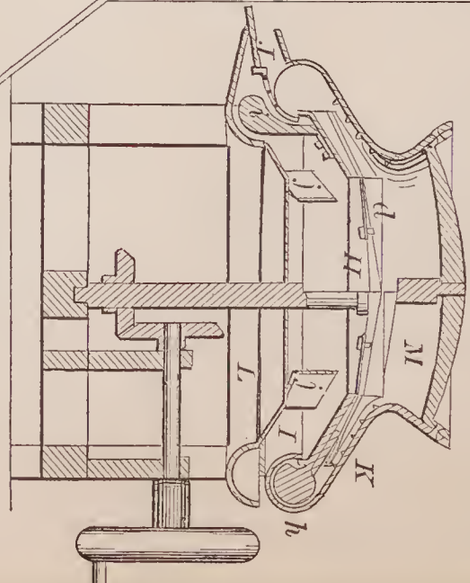


74565—E. McKenzie—*Horse Hay Fork.*

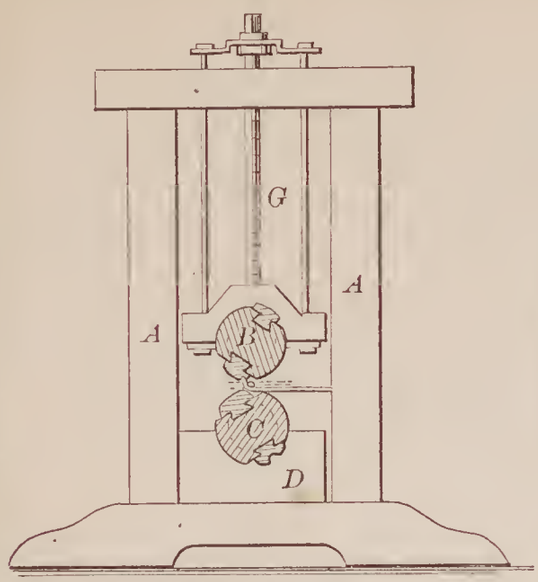




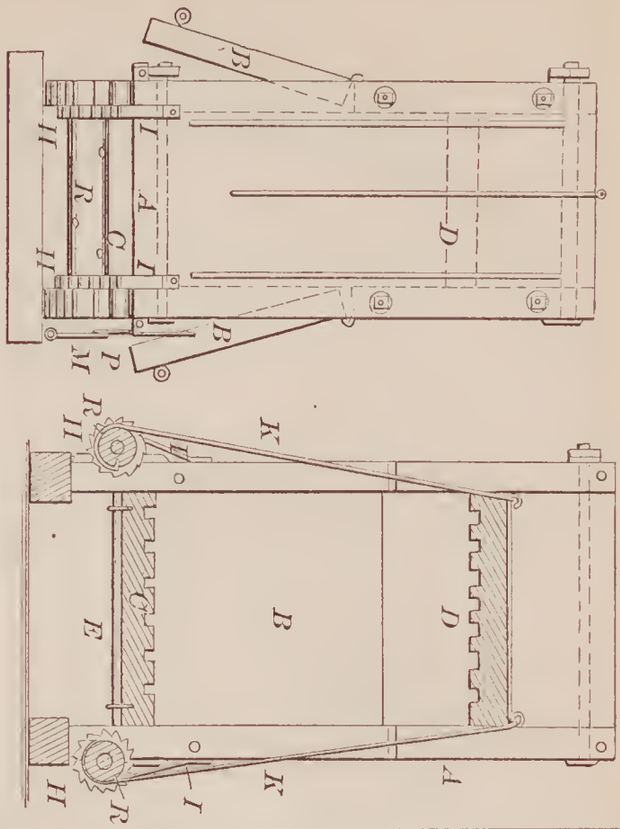
74569—J. A. Merriman—*Corn Sheller.*

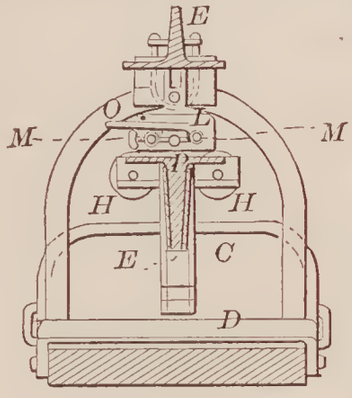


74570—S. A Millard—*Rolling Hoes.*

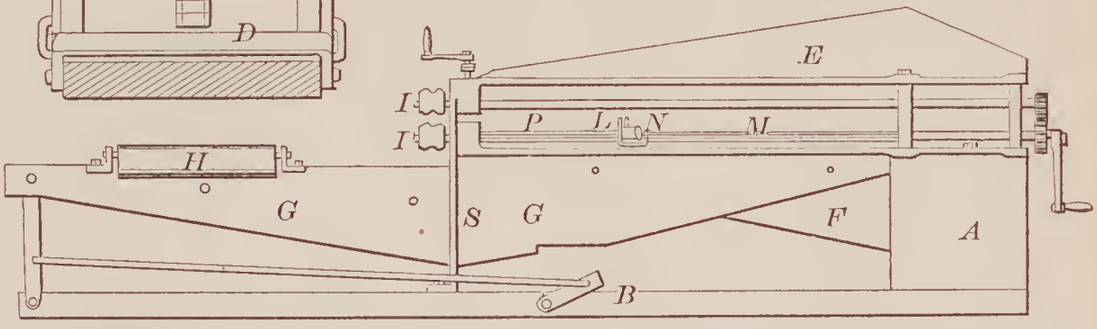


74571—M. R. Mollear—*Hay Press.*

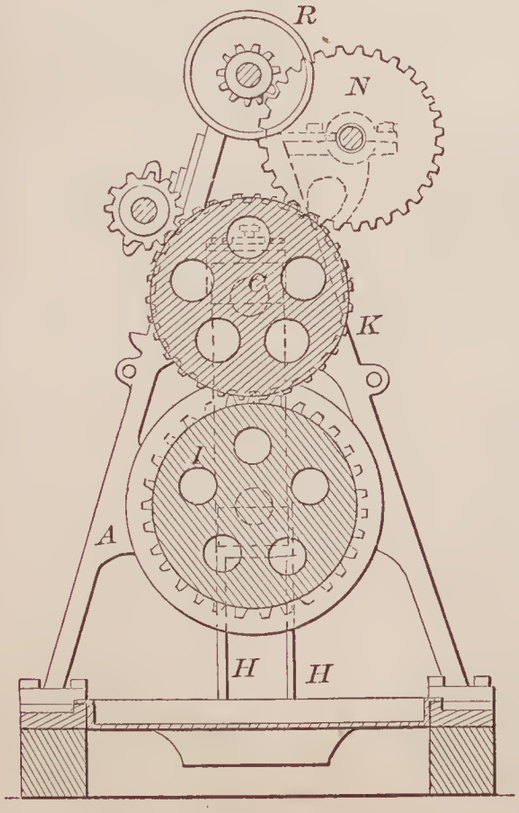




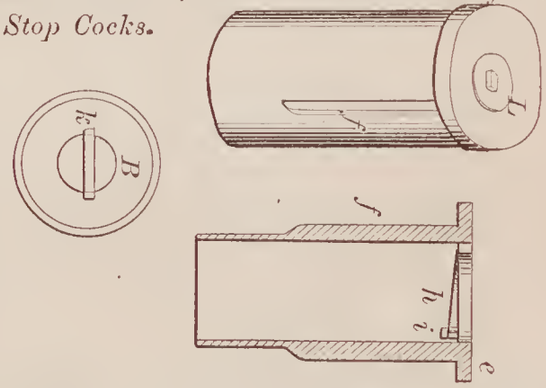
74572—G. R. Moore—*For Corrugating Sheet Metal.*



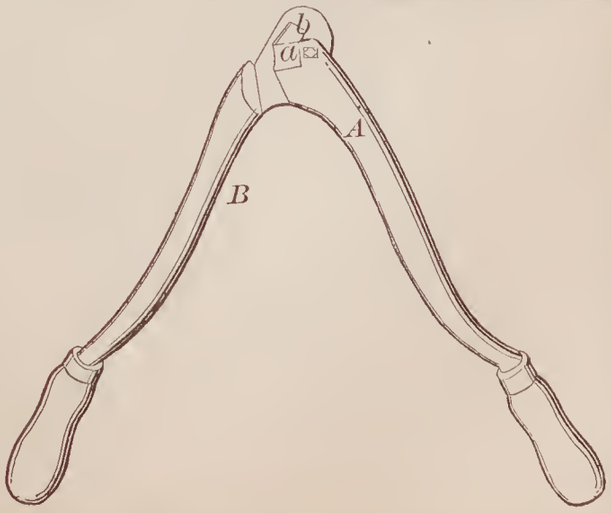
74574—J. Moore—*Cane Mill and Steam Engine.*



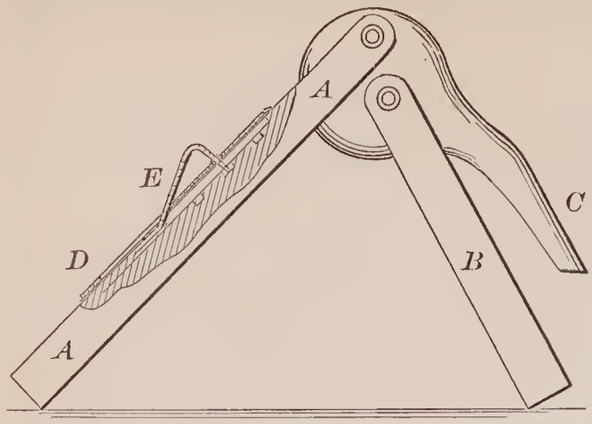
74573—Moore, Frink & Frink—*Box for Street Stop Cocks.*



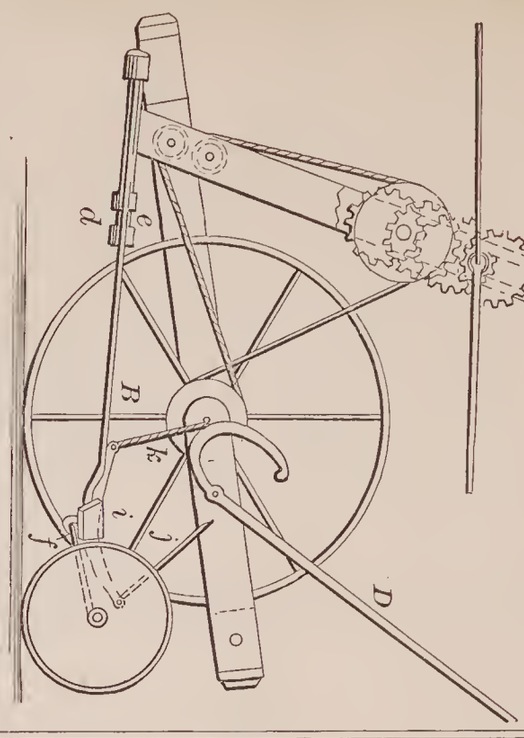
74575—T. W. Moore—*Bolt Cutter.*



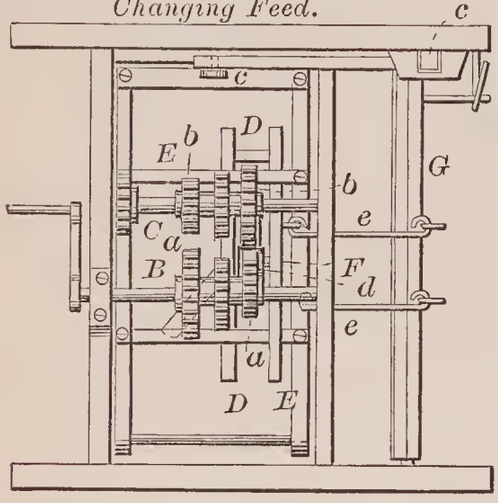
74576—A. Myers—*Carriage Jack.*

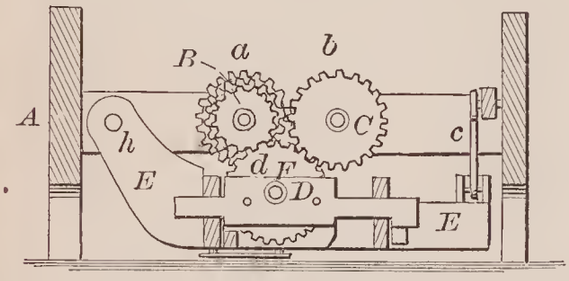


74577—W. Neff—*Harvester.*

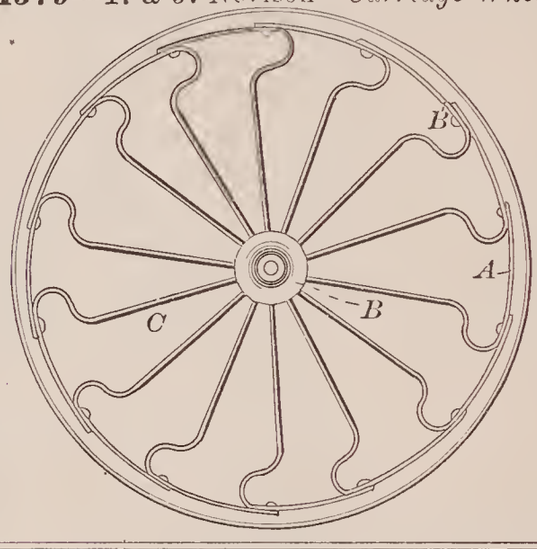


74578—R. L. Nelson—*Device for Changing Feed.*

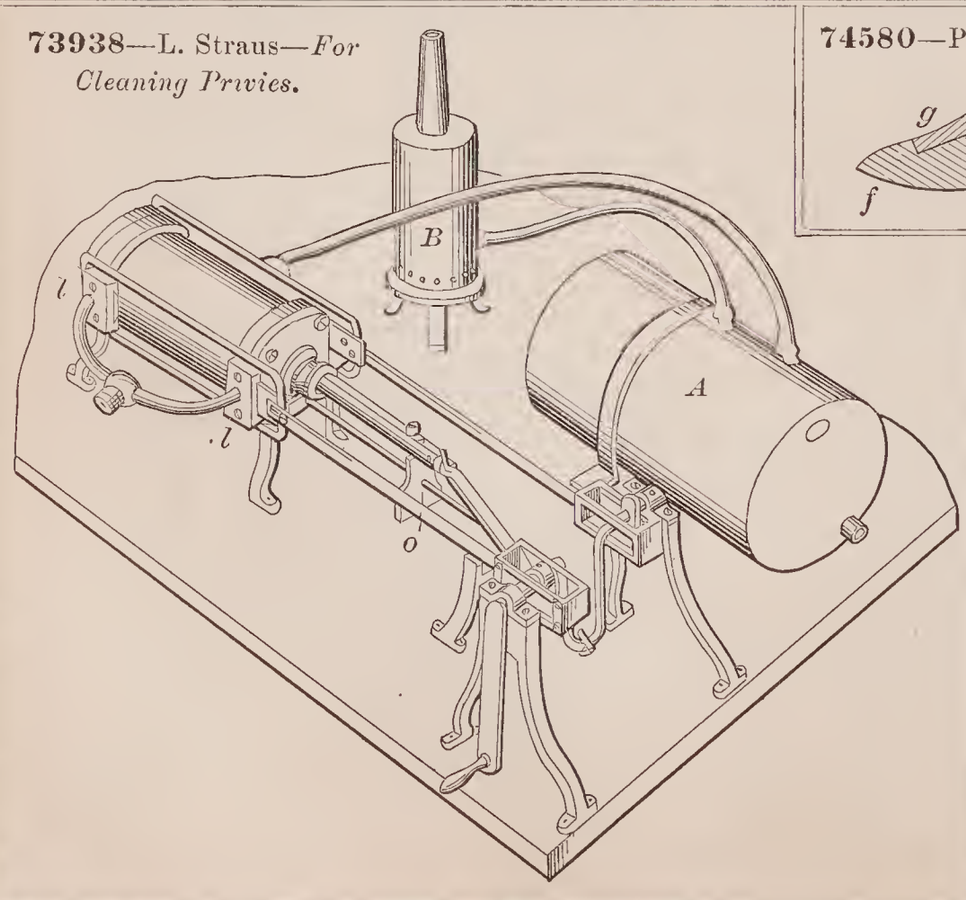




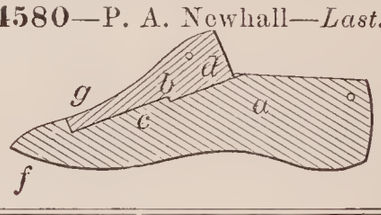
74579—T. & J. Nevison—*Carriage Wheel.*



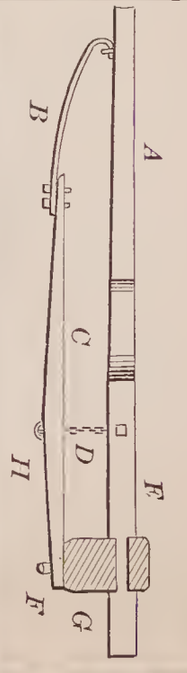
73938—L. Straus—*For Cleaning Privies.*



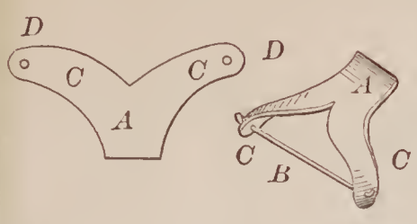
74580—P. A. Newhall—*Last.*



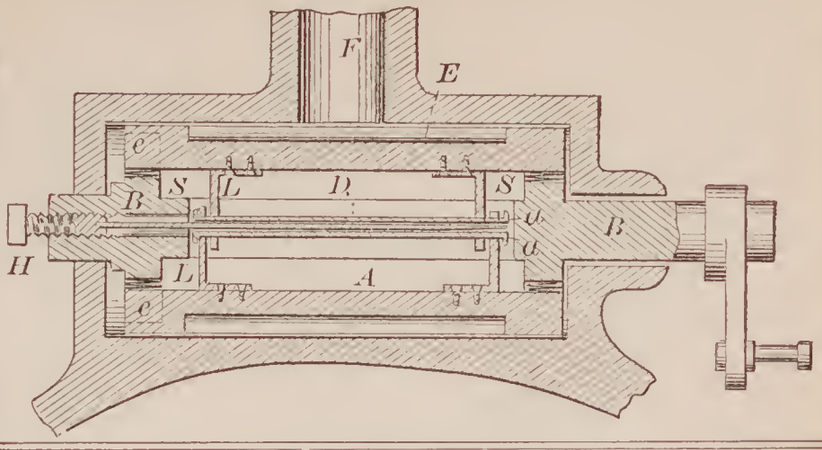
74581—D. C. Newton—*Wagon Pole Support.*



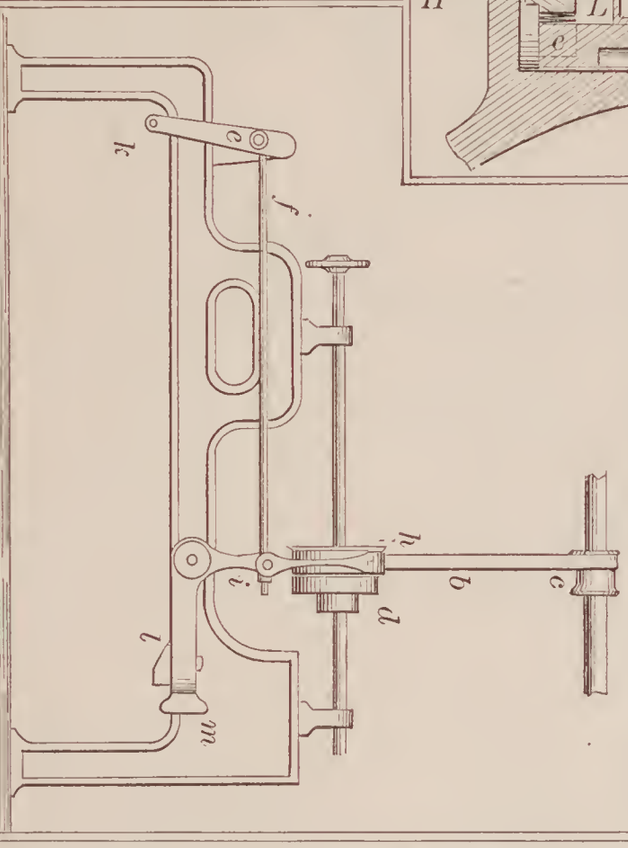
74582—G. & W. L. Nixon—*To Prevent Hogs from Rooting.*



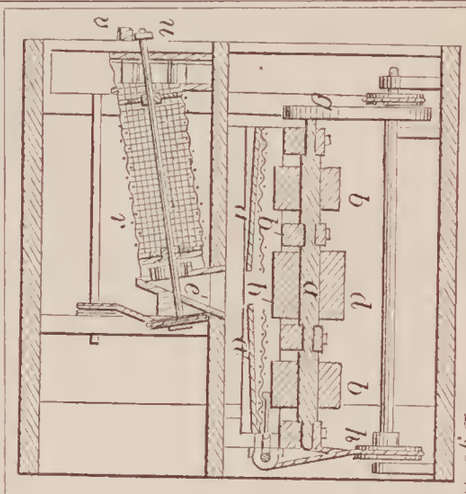
74583—W. Ord—*Steam Engine Valve.*

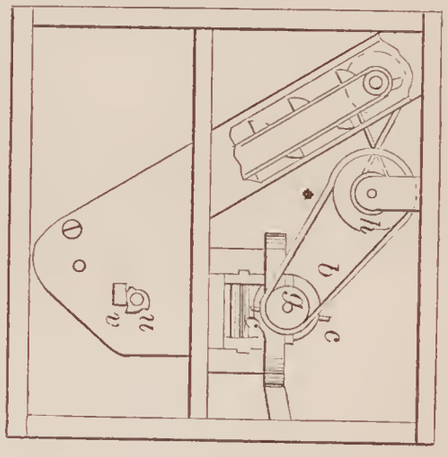


74585—Paley & Rawsthorn—*Spinning Mule.*

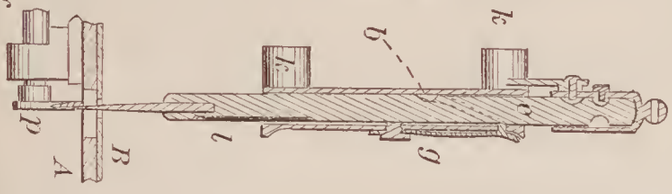


74586—Pearson & Coburn—*For Cutting and Separating Dye Woods.*

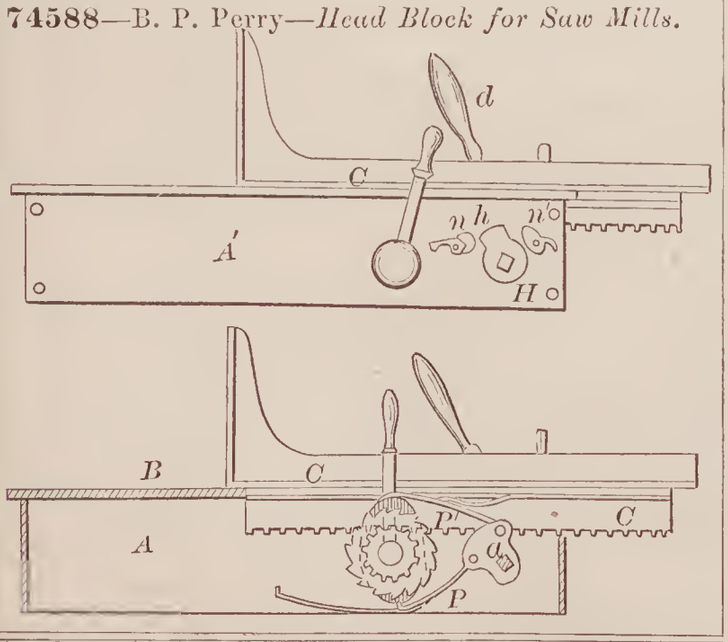




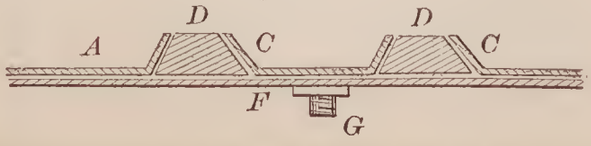
74584—T. C. Page—*Sewing Machine.*



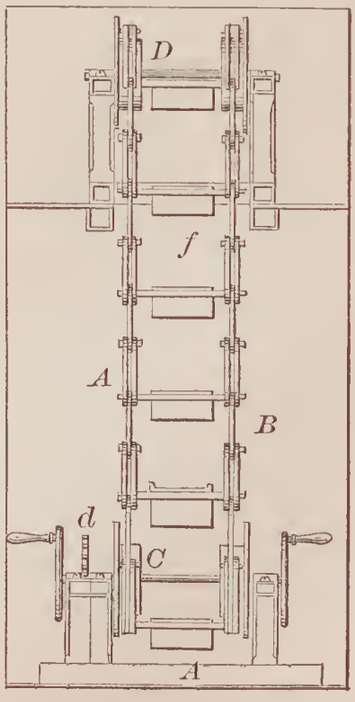
74588—B. P. Perry—*Head Block for Saw Mills.*



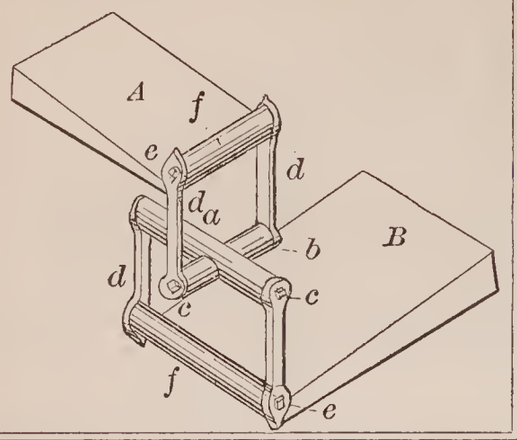
74589—G. M. Plympton—*Carriage Step.*



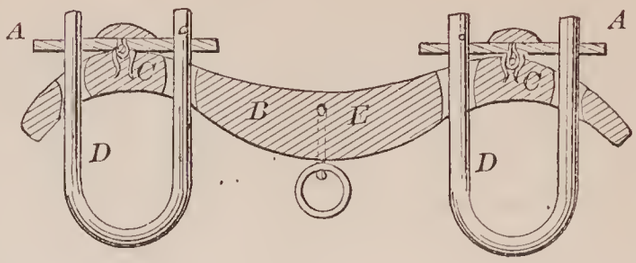
74590—A. Pohl—*Brick and Mortar Elevator.*



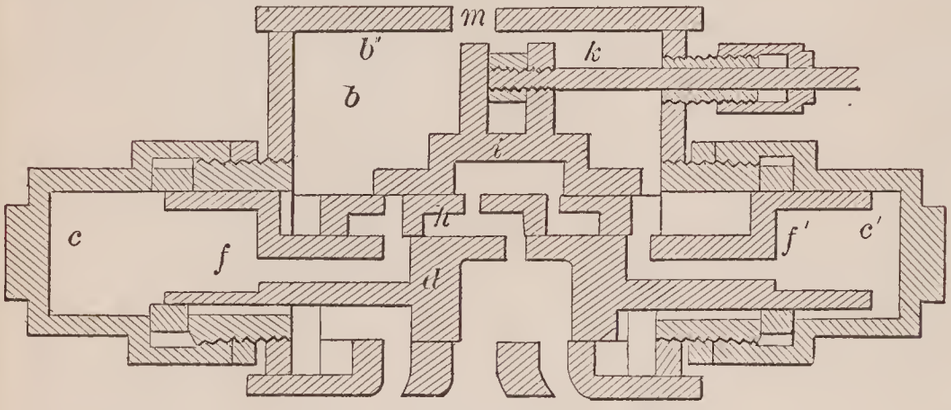
74591—J. Price—*Wagon Shackle.*



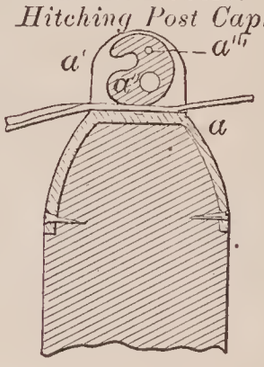
74592—H. Rawson—*Yoke.*



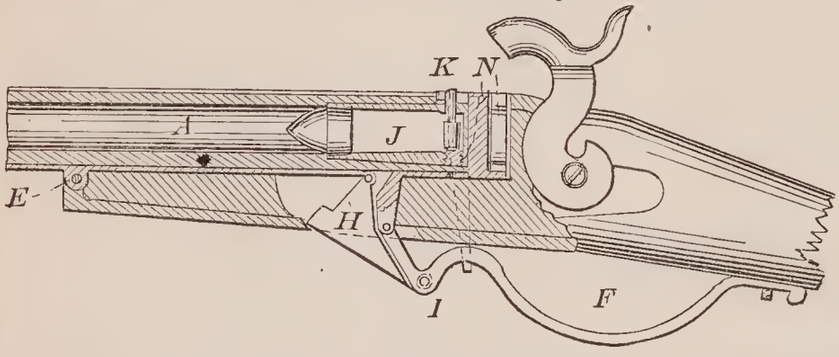
74593—J. Reichmann—*Steam Engine Valve.*

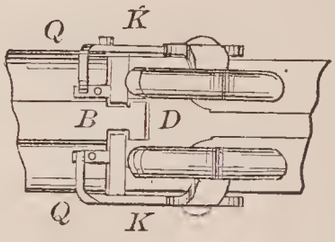


74596—R. N. Roberts—*Hitching Post Cap.*

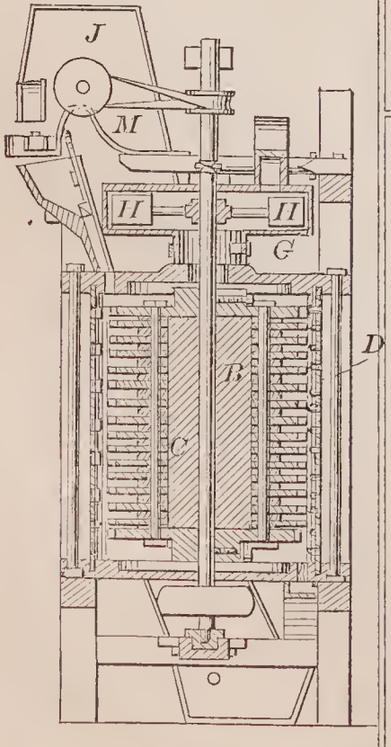


74594—S. S. Rembert—*Breech-Loading Fire Arm.*

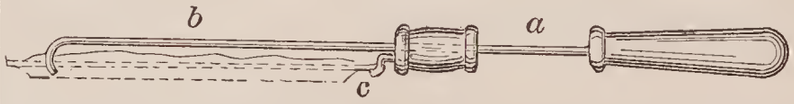




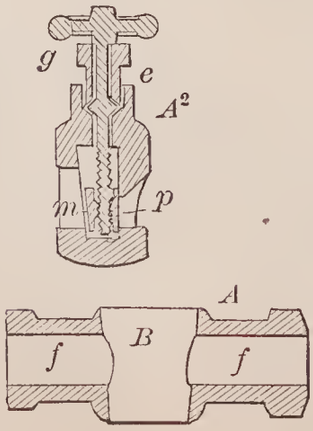
74595—W. Rickard—*Pearl Barley Machine.*



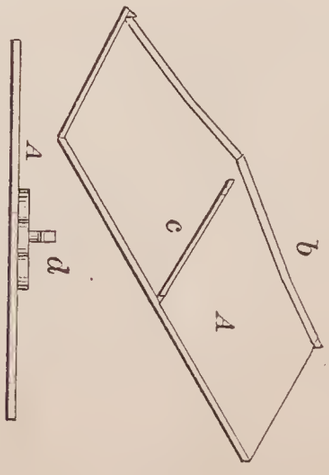
74598—G. O. Roe—*Plate Lifter.*



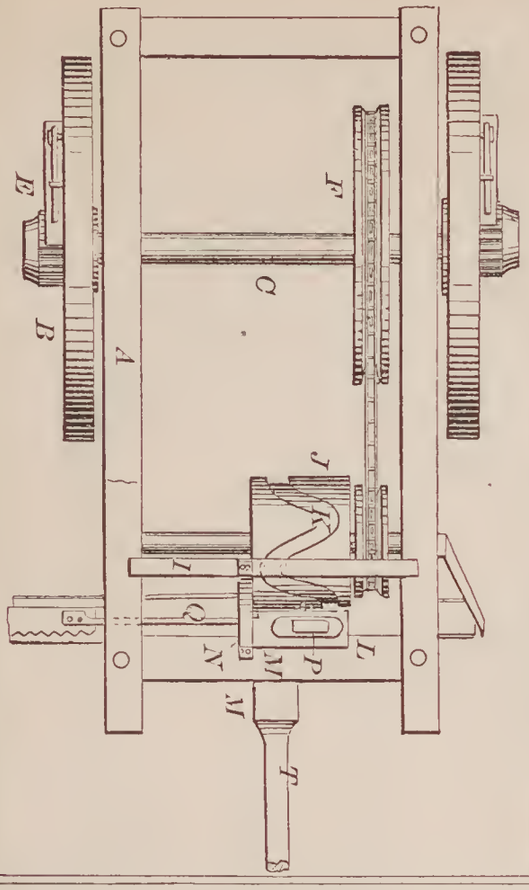
74597—L. C. Rodier—*Steam Globe Valve.*



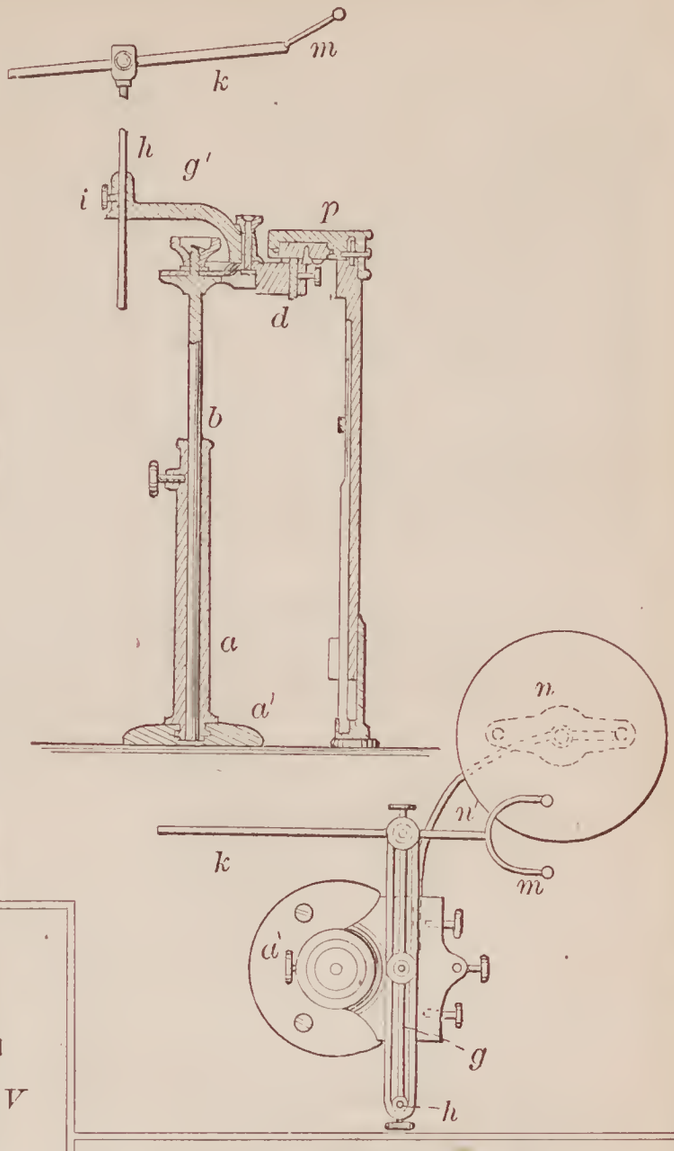
74599—E. T. Rogers—*Boots and Shoes.*



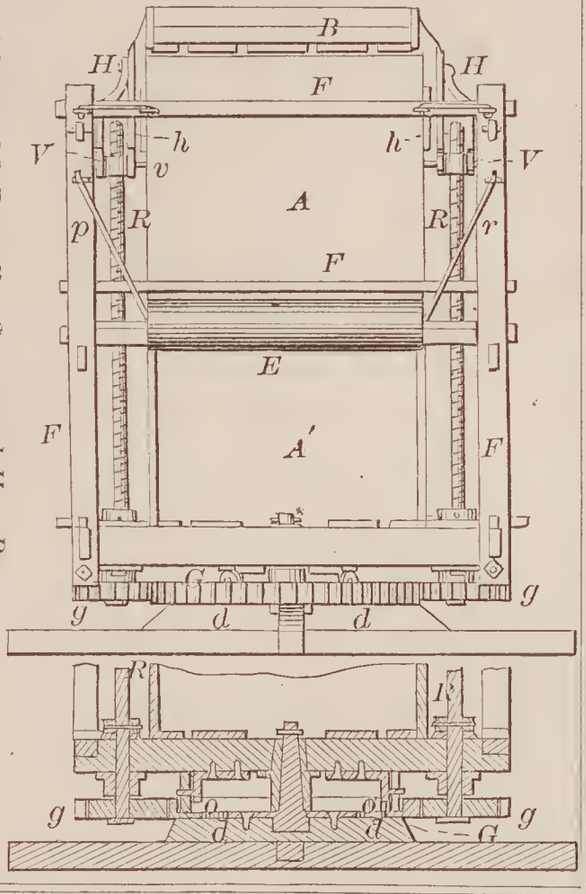
74600—W. Rose—*Harvester.*



74604—N. Sarony—*Photographic Rest.*

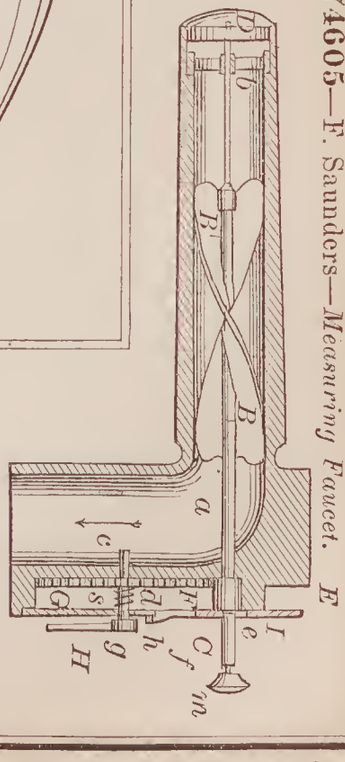


74603—W. Russell—*Cotton and Hay Press.*

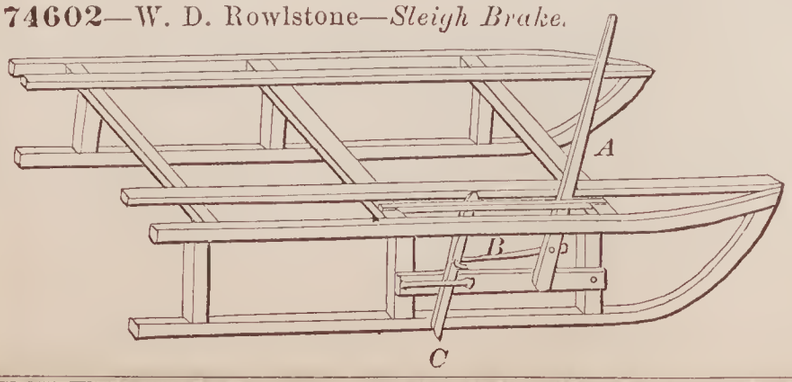


74601—M. Rothschild—*Pliers.*

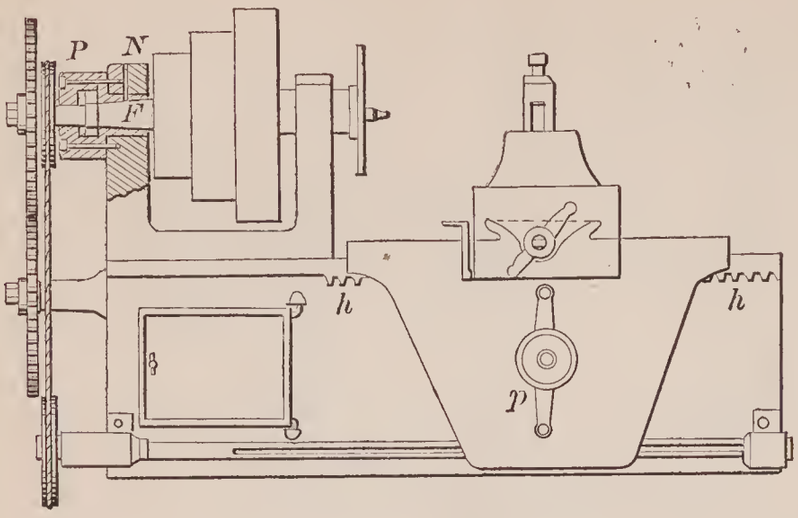
74605—F. Saunders—*Measuring Faucet.* E

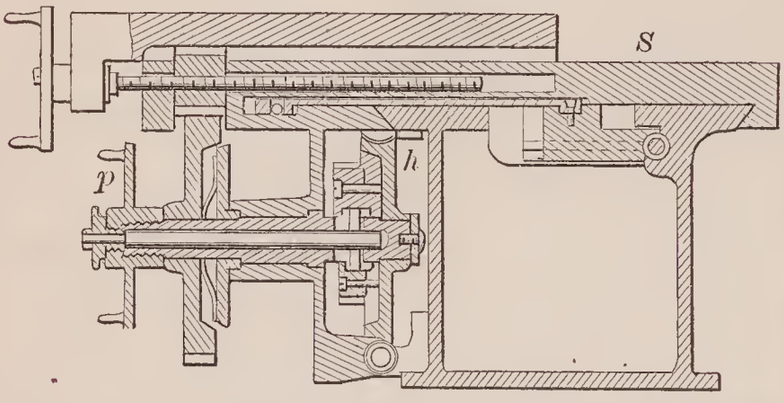


74602—W. D. Rowlstone—*Sleigh Brake.*

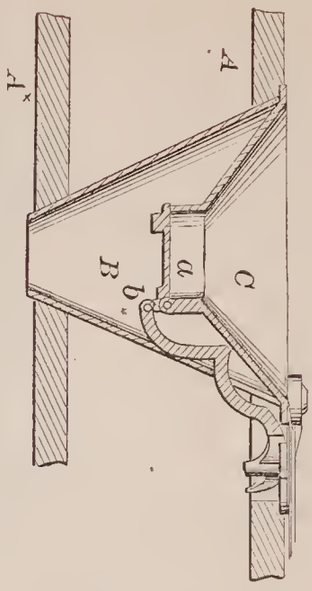


74609—W. Sellers—*Lathe for Turning Iron.*

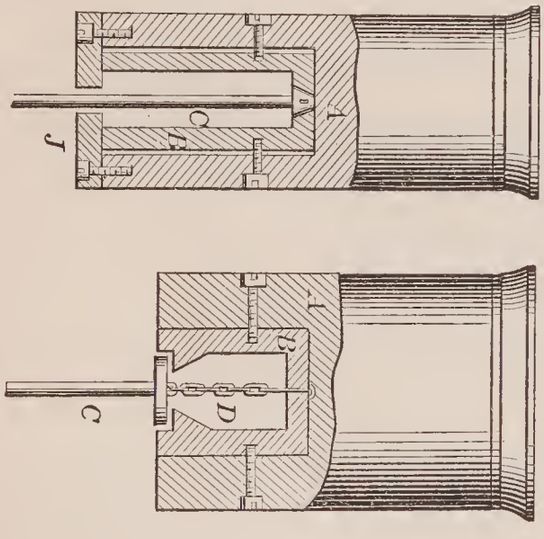




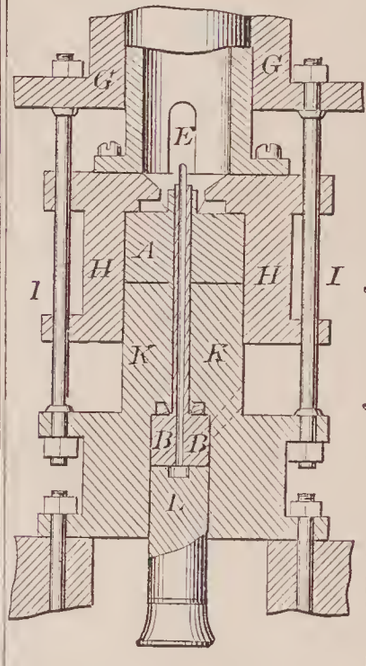
74610—J. H. Seymour—*Spittoon for Cars.*



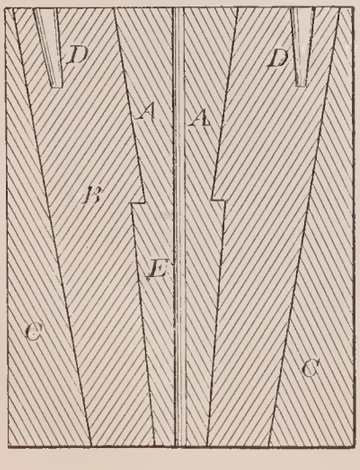
74611—W. A. Shaw—*Manufacture of Tin-Lined Lead Pipe.*



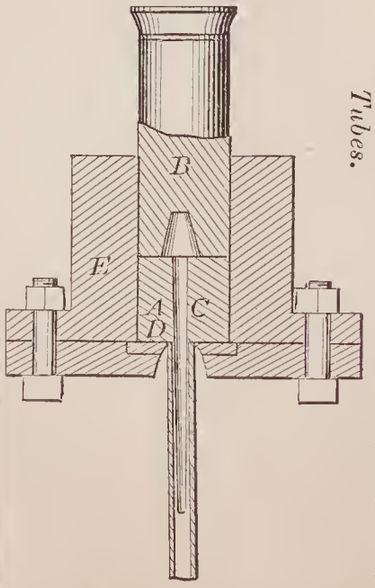
74612—W. A. Shaw—*Manufacture of Tin-Lined Lead Pipe.*



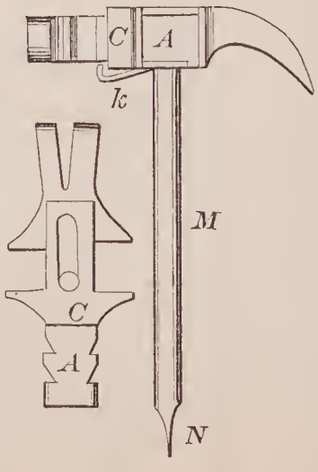
74613—W. A. Shaw—*Lead Pipe.*



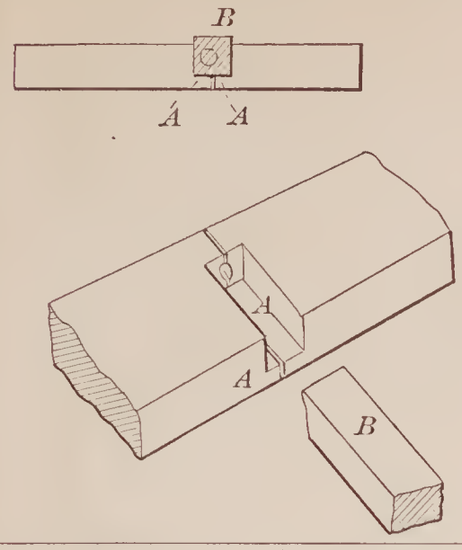
74614—W. A. Shaw—*Making Tapering Tubes.*



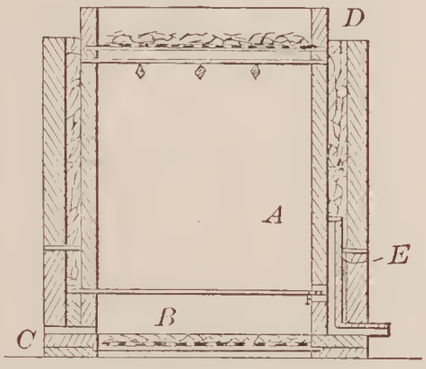
74615—O. Shepard—*Hammer*



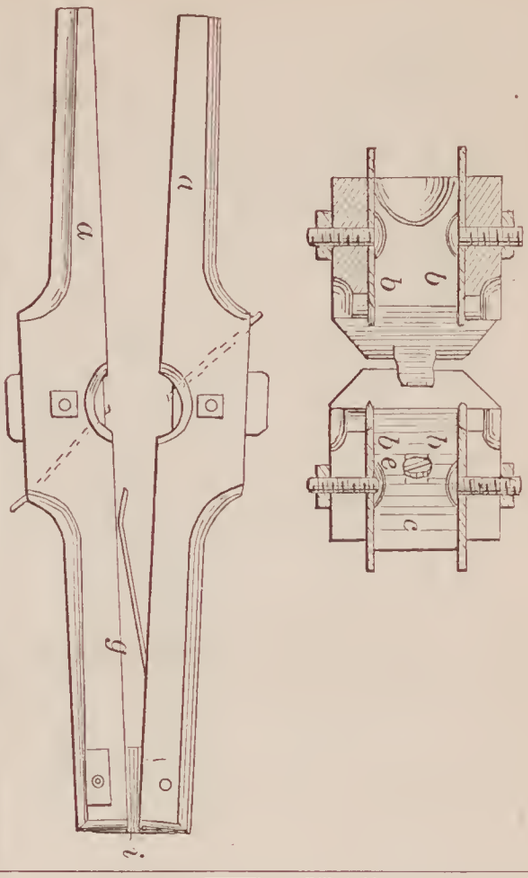
74616—W. Shields—*Die for Square Headed Bolts.*



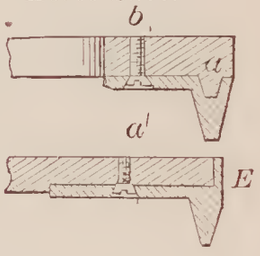
74618—W. Y. Singleton—*Beehive.*



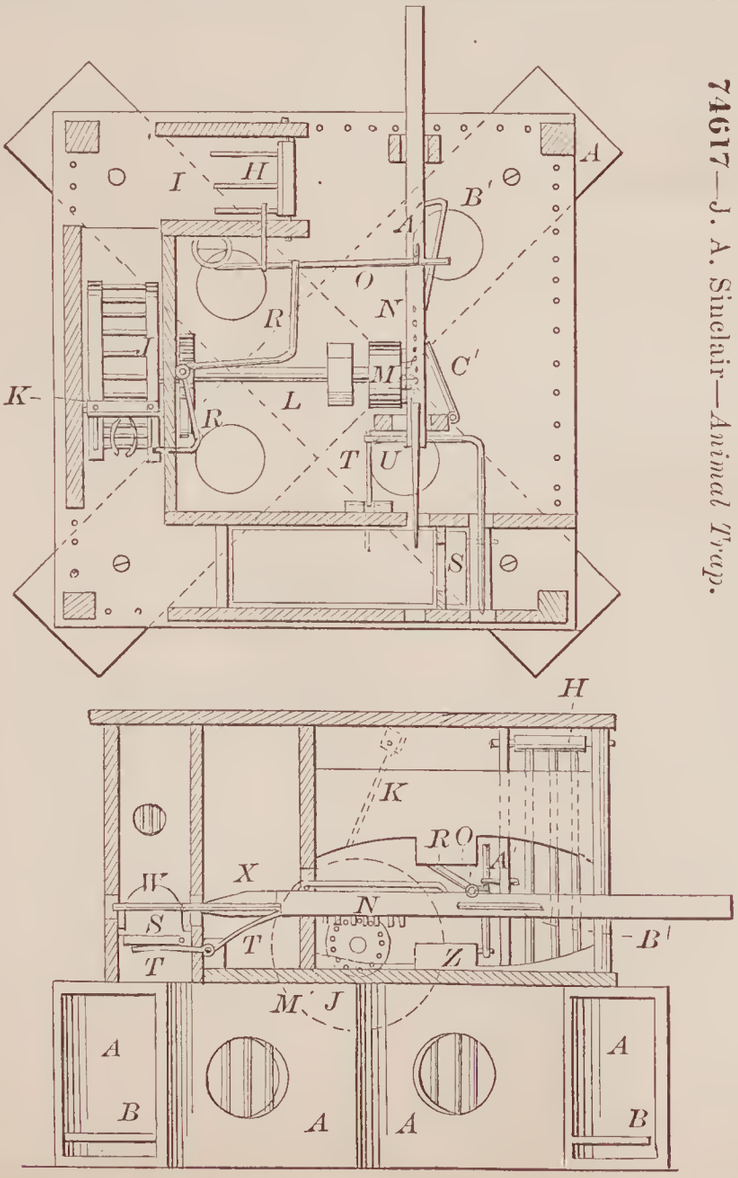
74619—R. T. Sutterley—*Belting Tobacco.*



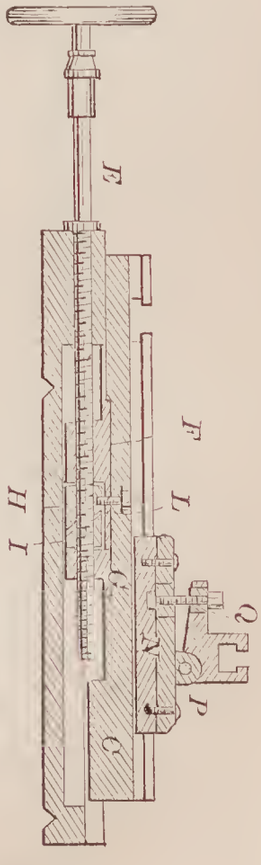
74620—G. W. Skinner—*Horse Shoe.*



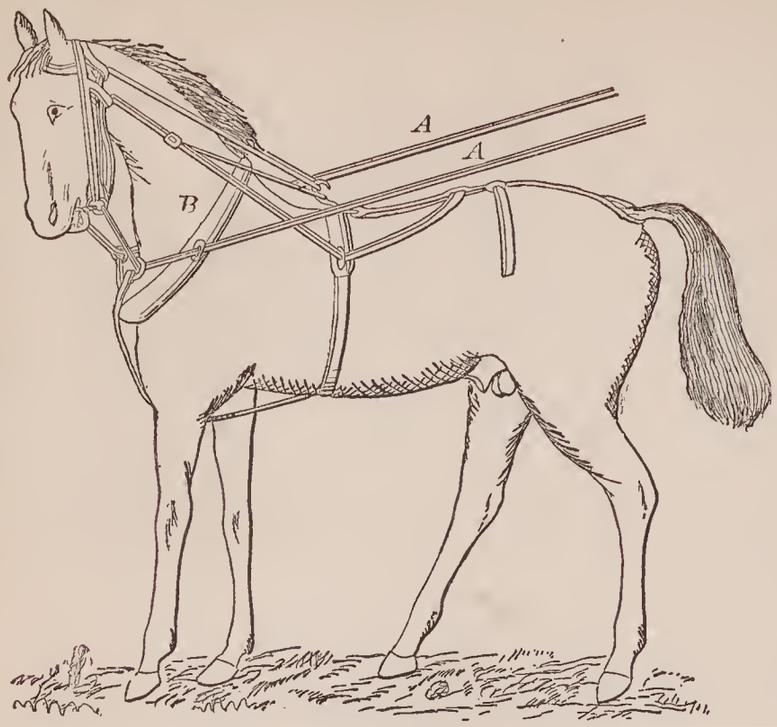
74617—J. A. Sinclair—*Animal Trap.*



74621—H. K. Smith—*Lathe Rest.*



74623—J. J. Smokey—*Harness*



74624—G. A. Smythe—*Calculating Scale Beam.*

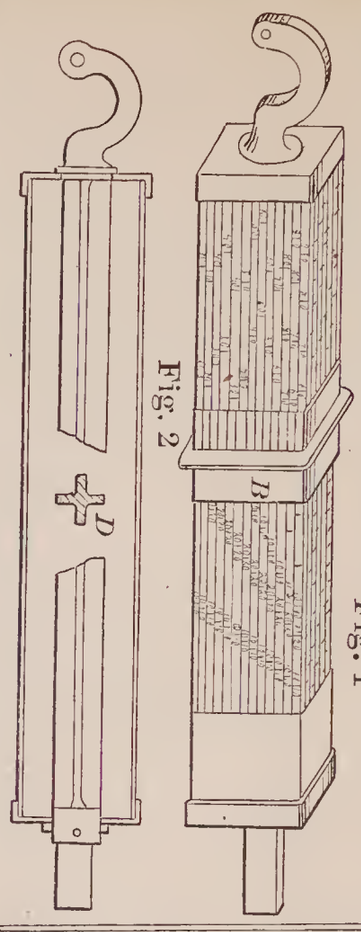
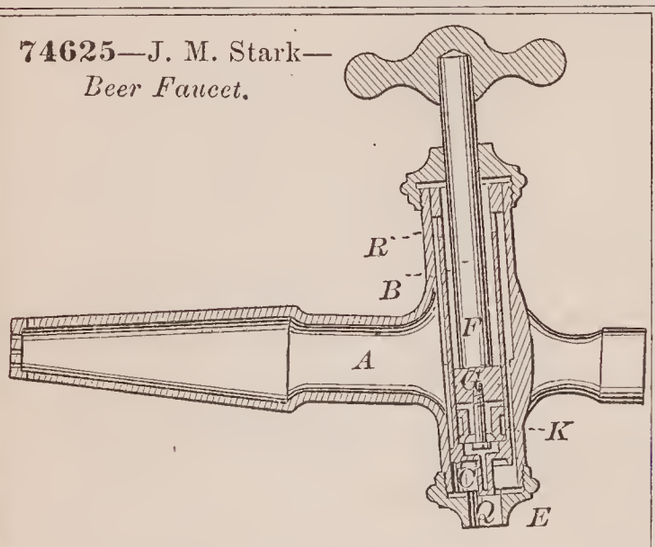


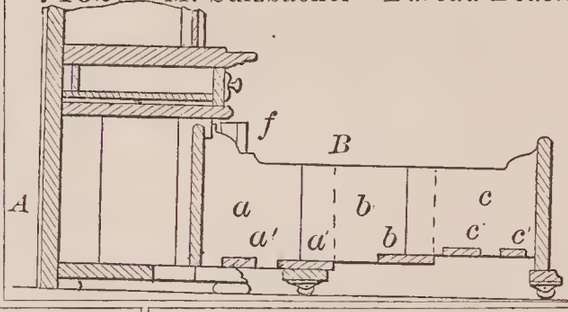
Fig. 2

Fig. 1

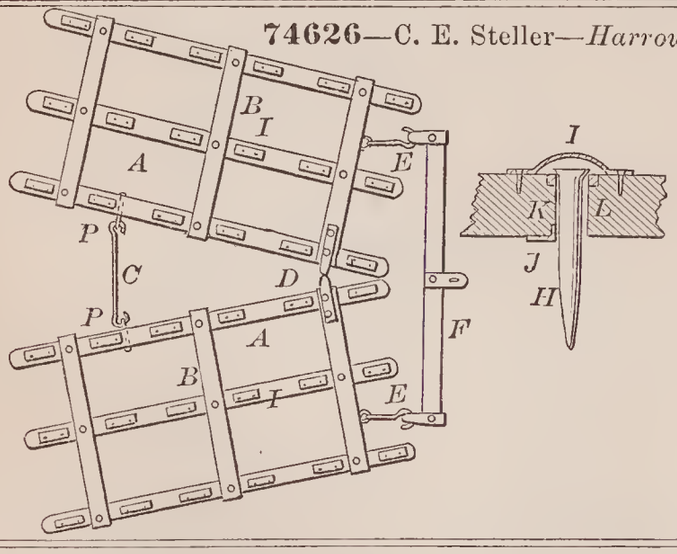
74625—J. M. Stark—
Beer Faucet.



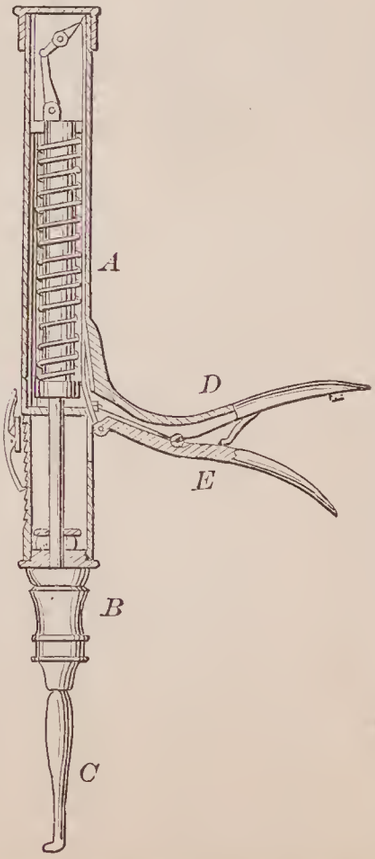
74628—M. Sulzbacher—*Bureau Bedstead*



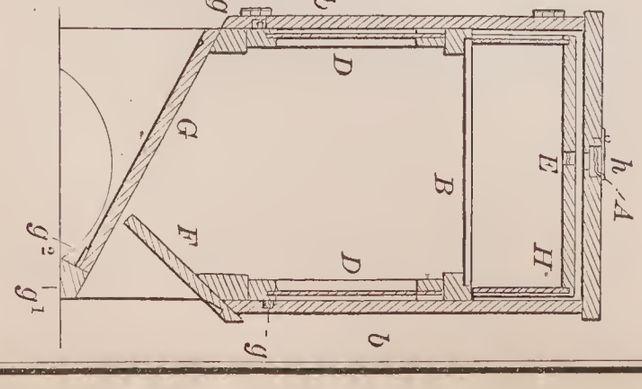
74626—C. E. Steller—*Harrow.*



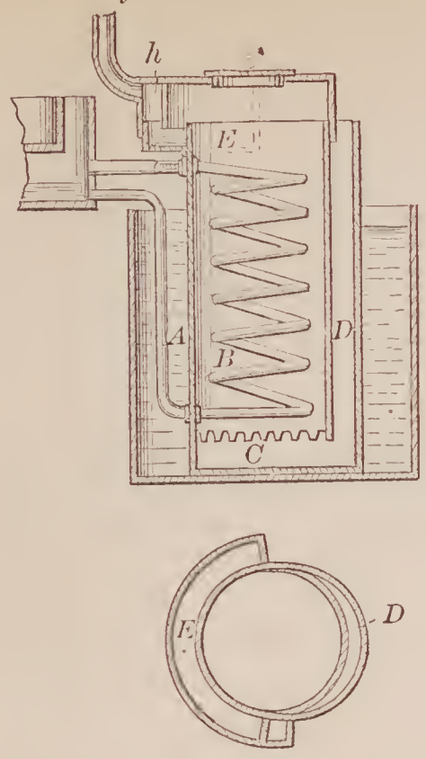
74629—S. C. Taylor—*Dental Instrument.*



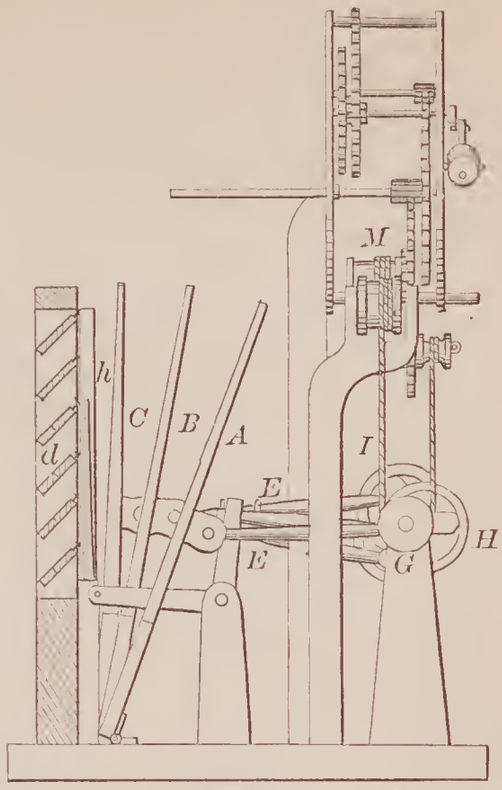
74627—H. A. Stidger—*Beehive.*



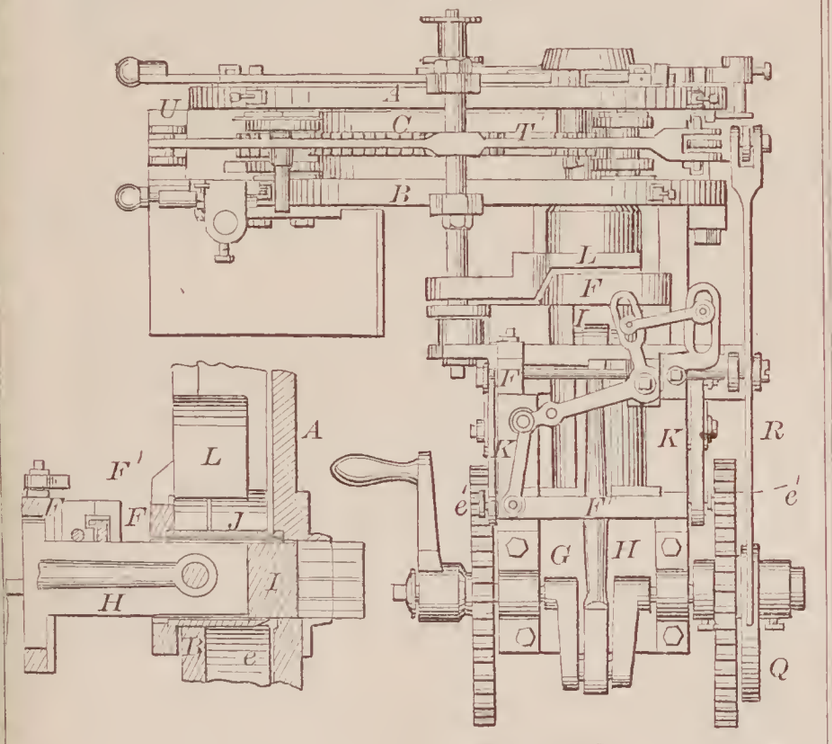
74630—W. H. Thomas—*Water Heater for Baths.*



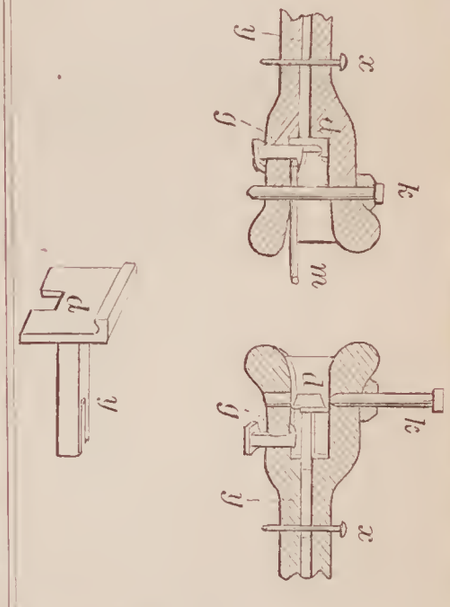
74632—I. P. Tice—*Wind Mill.*

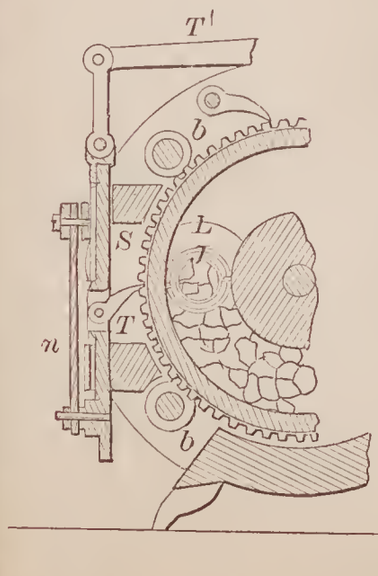


74634—L. Tilton—*For Bundling Kindling Wood.*

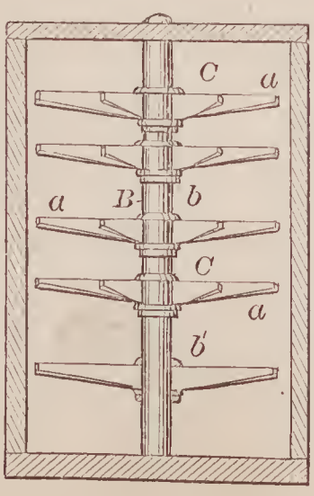


74631—S. & W. Thorpe—*Car Coupling.*

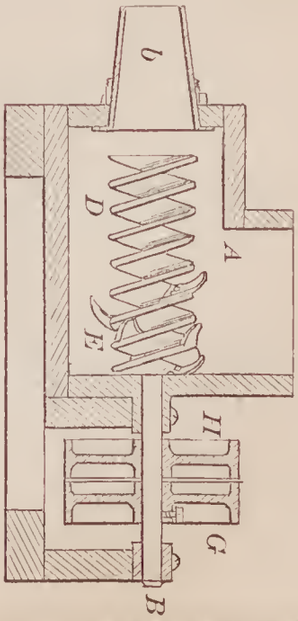




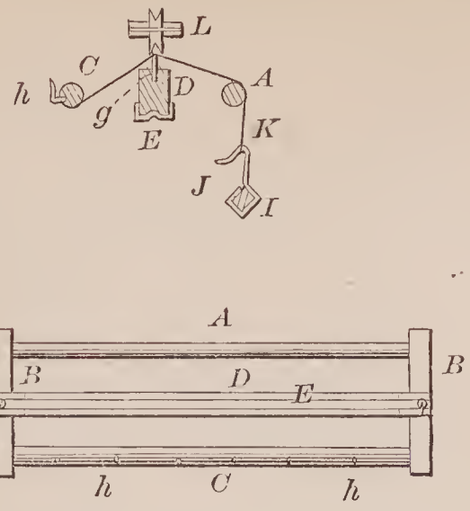
74633—I. P. Tice—*Milk Rack.*



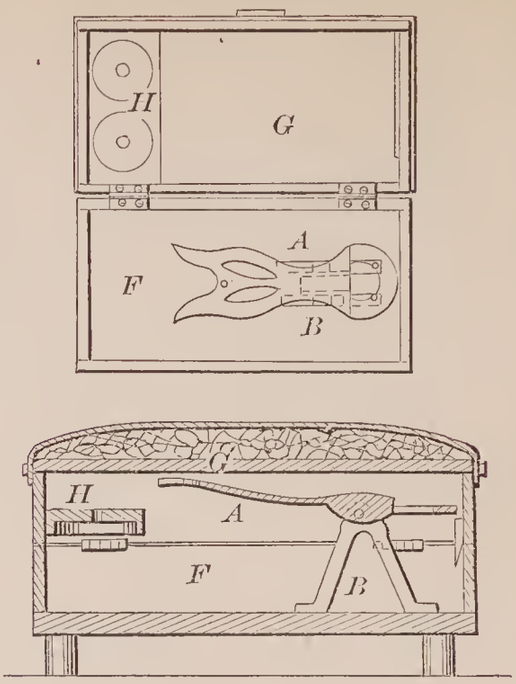
74635—J. Tisdale—*Peat Machine.*



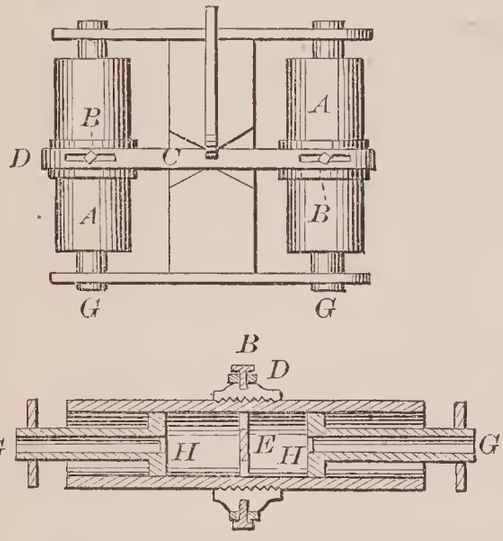
74636—A. W. Todd—*Frame for Moving Cloth.*



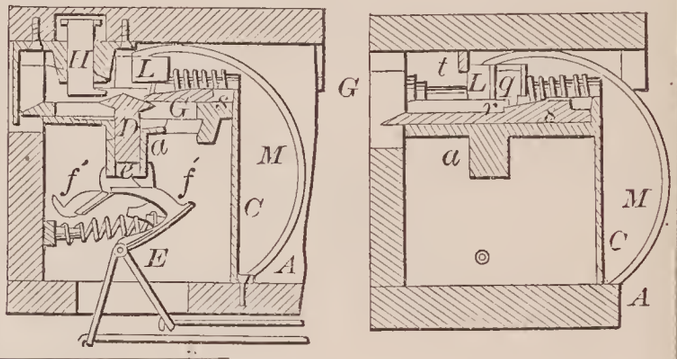
74637—J. Vandercar—*Boot Blacking Apparatus.*



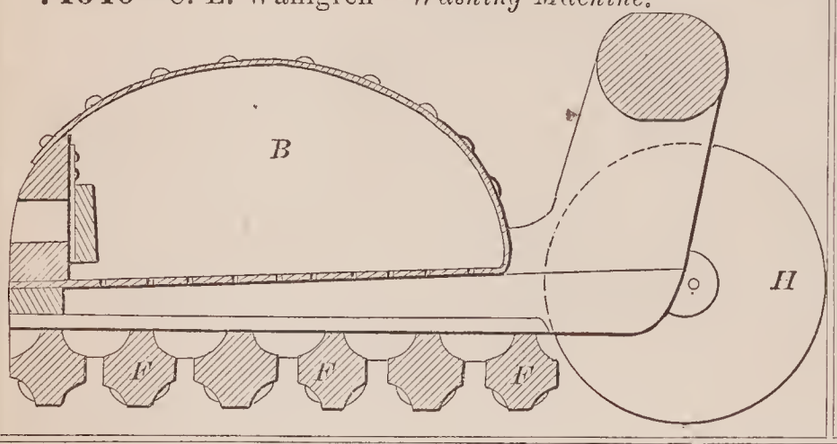
74638—Vaughan & McGee—*Pump.*

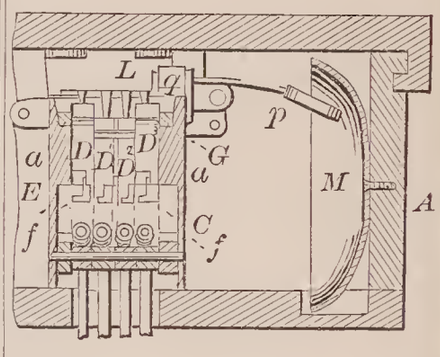


74639—J. J. Wagenhorst—*Till Alarm and Lock*

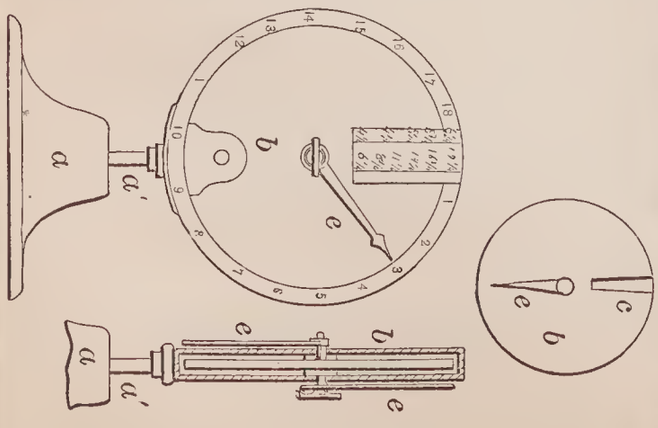


74640—C. E. Wahlgren—*Washing Machine.*

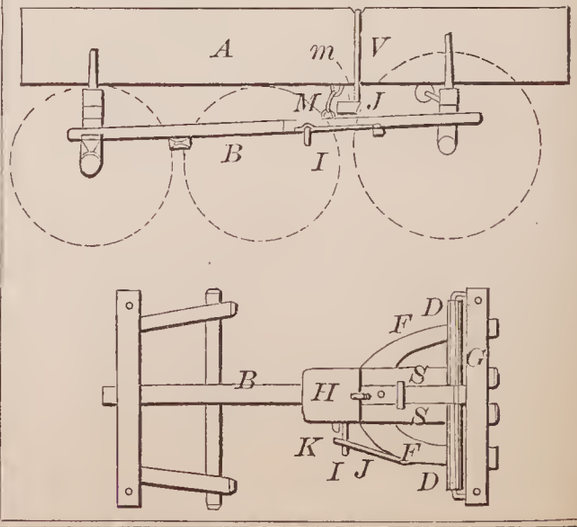




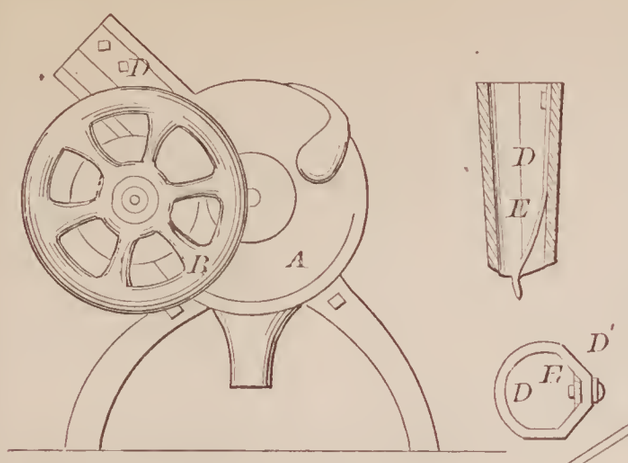
74641—T. Wallworth—*Computing Apparatus.*



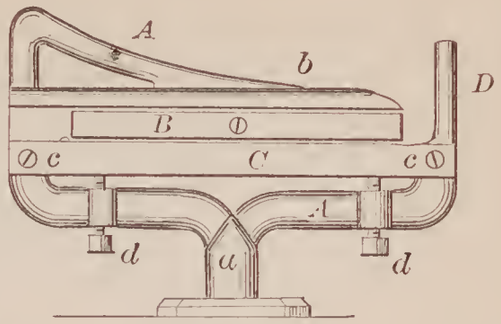
74642—J. Walton—*Wagon Brake.*



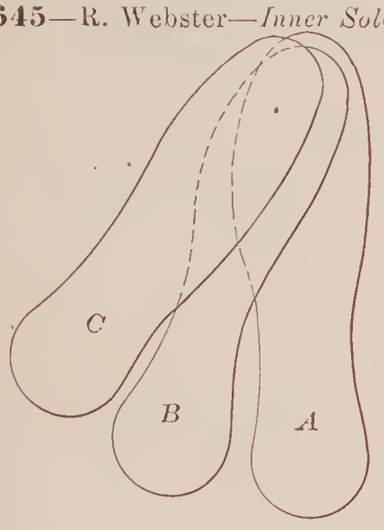
74643—J. Warren—*Corn Sheller.*



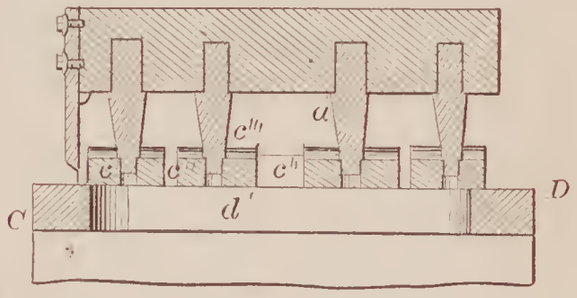
74644—W. G. Watson—*Silk Cleaner.*



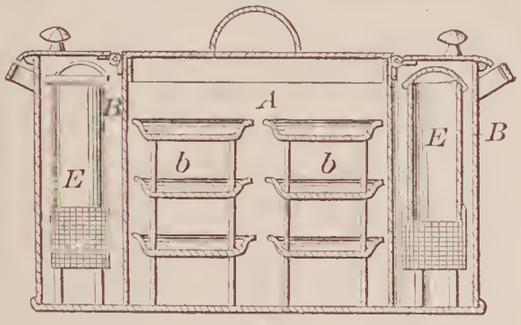
74645—R. Webster—*Inner Sole.*



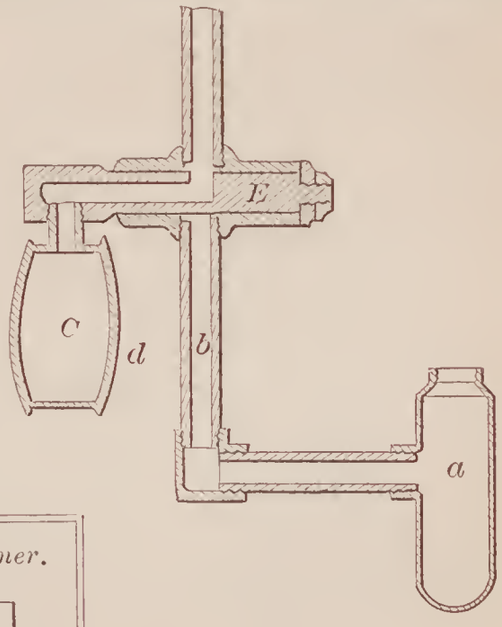
74646—B. G. Welch—*Gang Punch.*



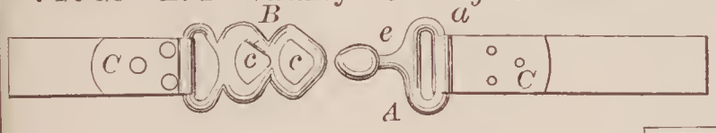
74647—West & Camp—*Culinary Boiler*

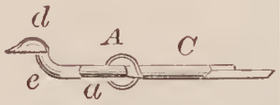


74648—A. J. White—*Oil Burning Apparatus*

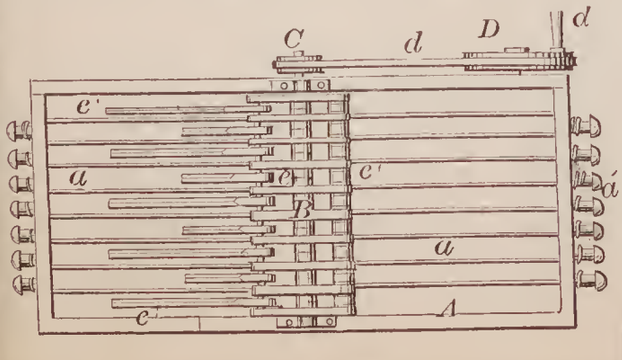


74649—E. P Whitney—*Carriage Curtain Fastener.*

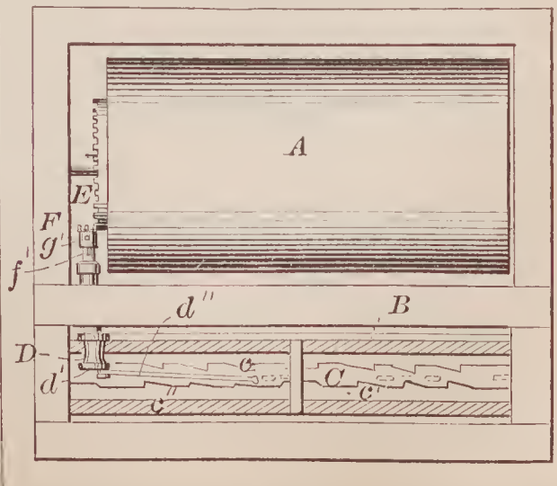




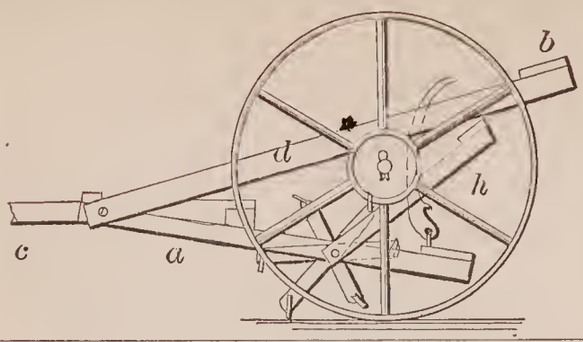
74650—A. S. Whittemore—*Grain Thresher.*



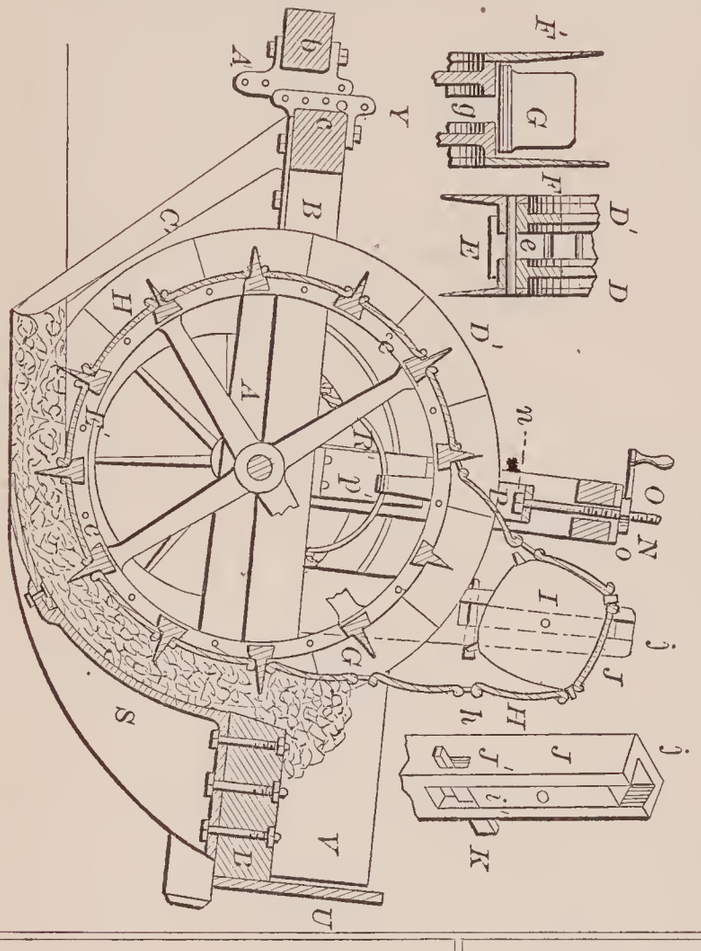
74651—D. Wilber—*Seed Sower and Field Roller.*



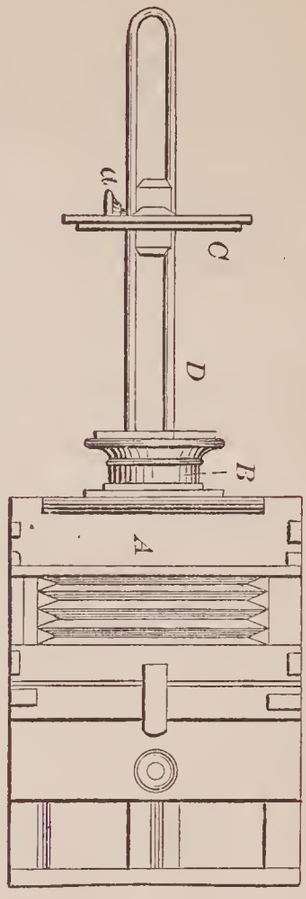
74652—J. D. & J. H. Wilde—*Cornstalk Cutter.*



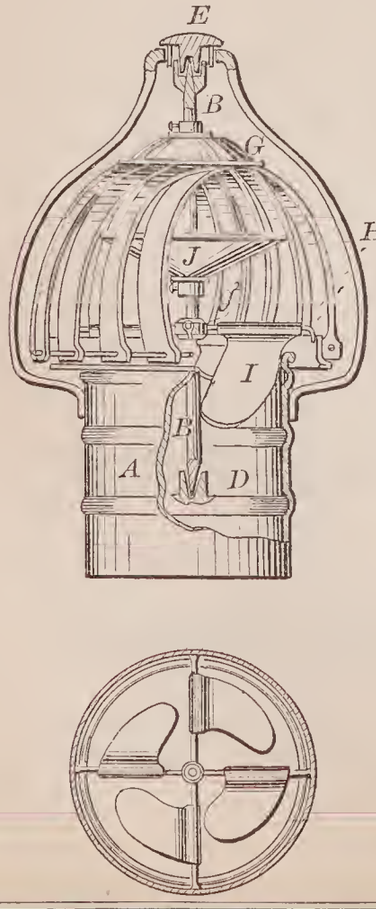
74653—I. M. Williams—*Ditching Machine.*



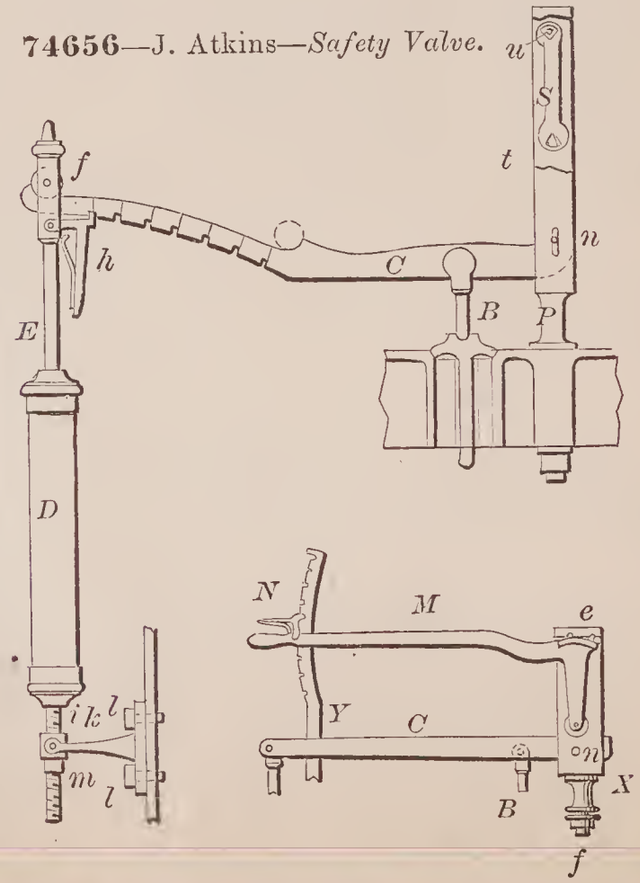
74654—F. Wolf—*For Vignetting Photographic Negatives.*



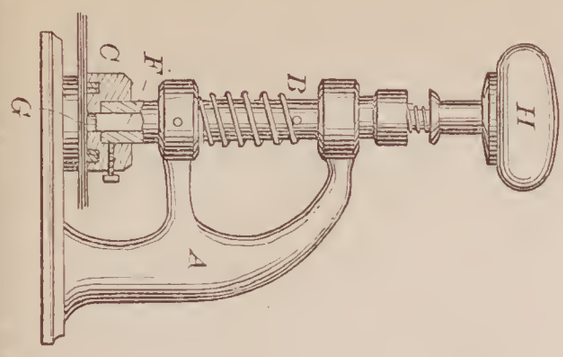
74655—H. B. North—*Ventilator.*



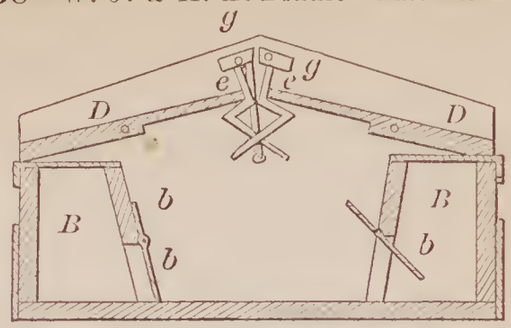
74656—J. Atkins—*Safety Valve.*



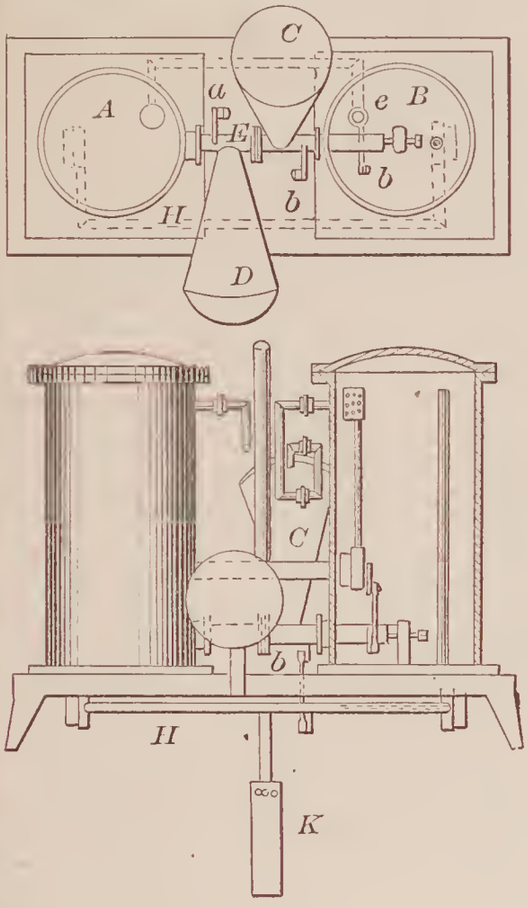
74657—J. H. Berret—*Hand Stamp.*



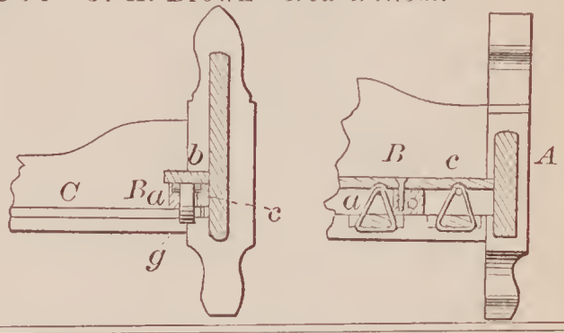
74658—W. J. & H. L. Biddle—*Animal Trap.*



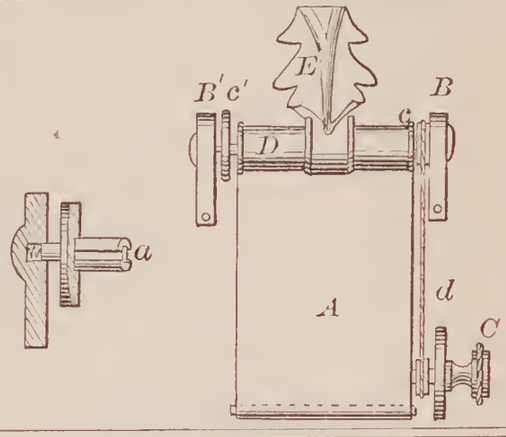
74659—E. Brockway—*Boiler Feeder.*



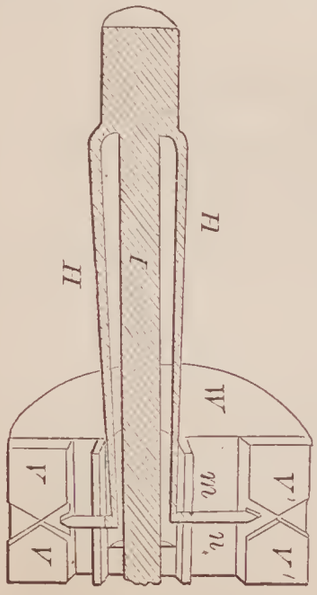
74660—J. H. Brown—*Bed Bottom.*



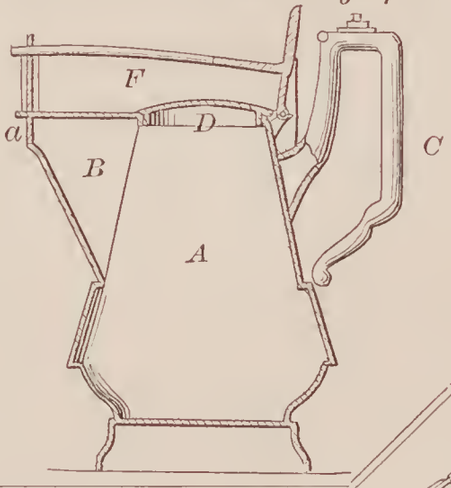
74661—W. Brown—*Curtain Fixture.*



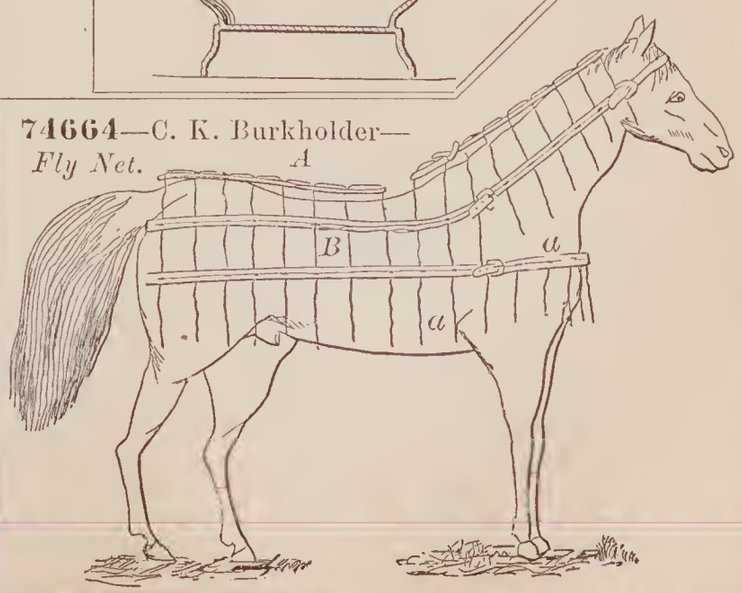
74662—H. T. Buff—*Rotary Steam Engine.*



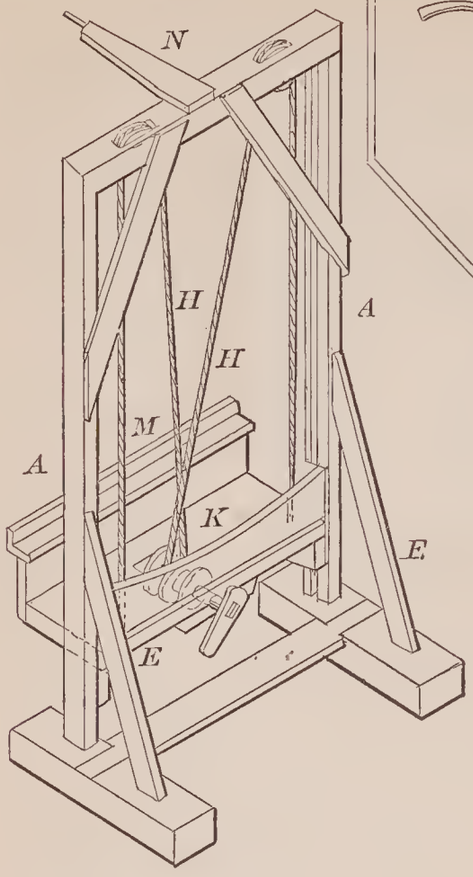
74663—H. Bullard—*Syrup Pitcher.*



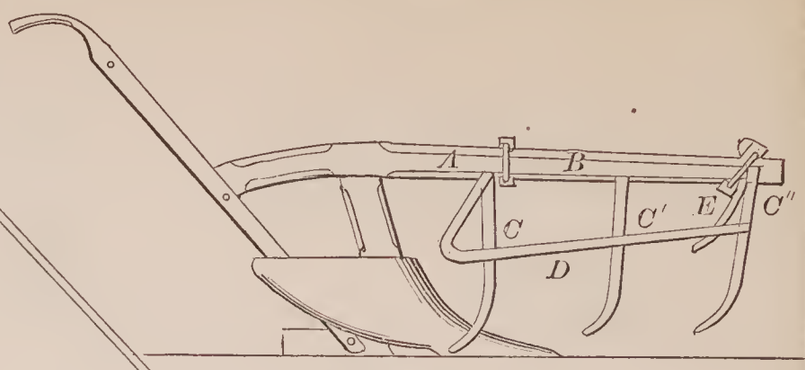
74664—C. K. Burkholder—*Fly Net.*



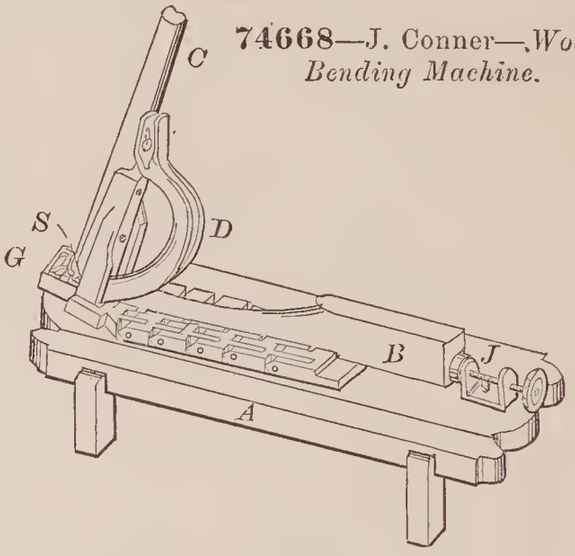
74665—O. S. Burton—*Staging.*



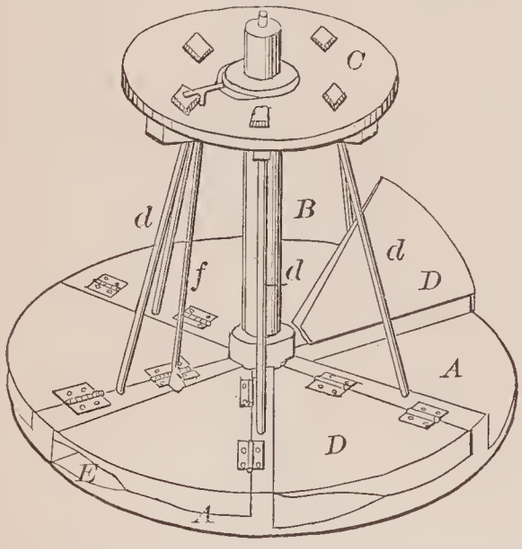
74666—S. Collins—*For Turning Down and Burying Stalks.*



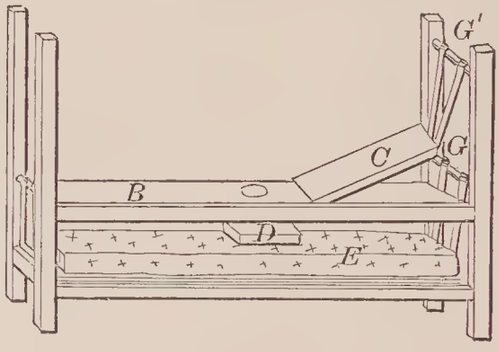
74668—J. Conner—*Wood Bending Machine.*



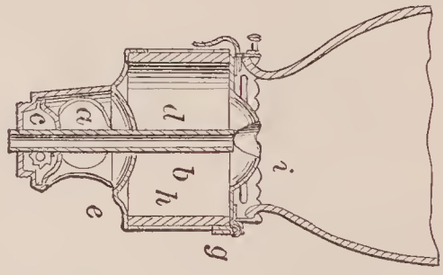
74667—B. D. Compton—*Water Wheel.*



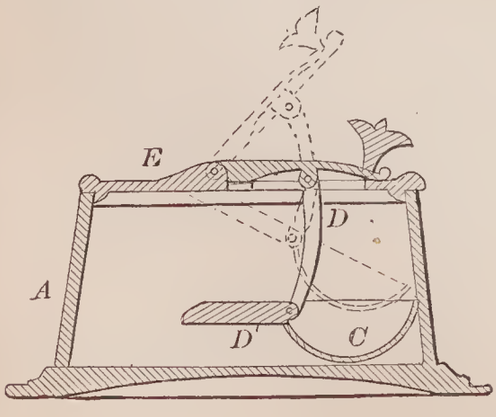
74669—H. Conway—*Hospital Bed.*



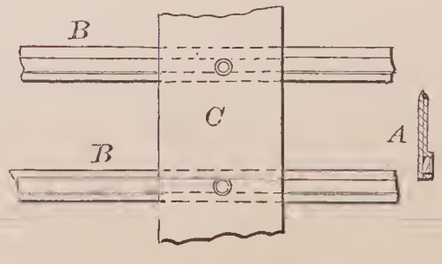
74670—Dailey, Johnson & Du Bois—*Lamp.*



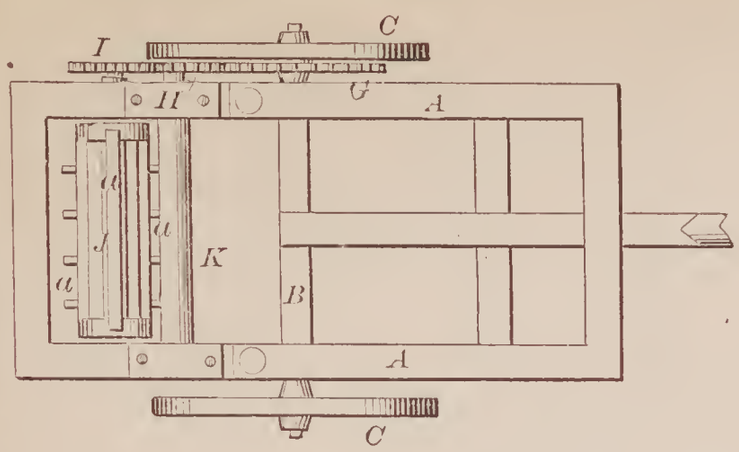
74671—O. Dean—*Inkstand.*



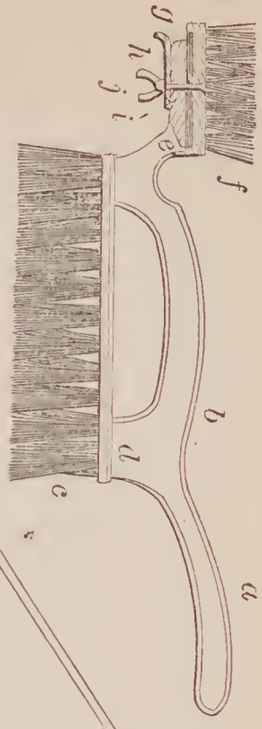
74672—De Forest & Gilbert—*Hooped Skirt Spring.*



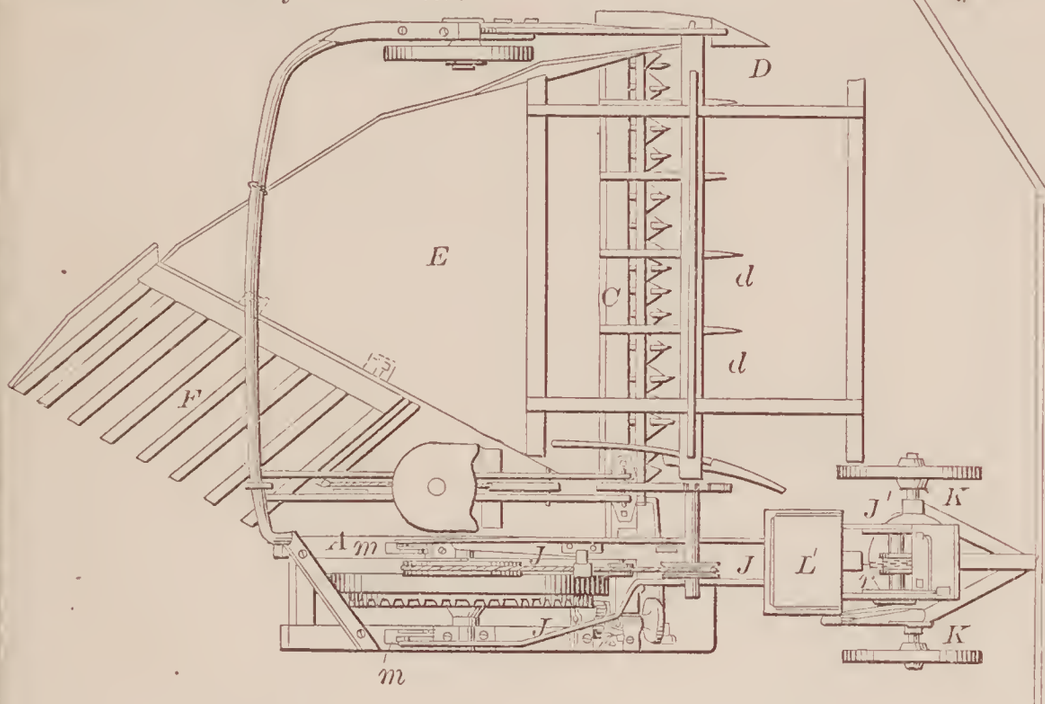
74673—D. L. Dickson—*Harrow.*



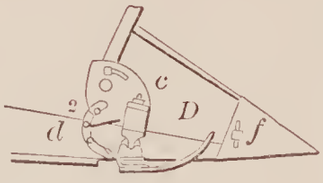
74674—J. H. Doughty—*Blacking Brush.*

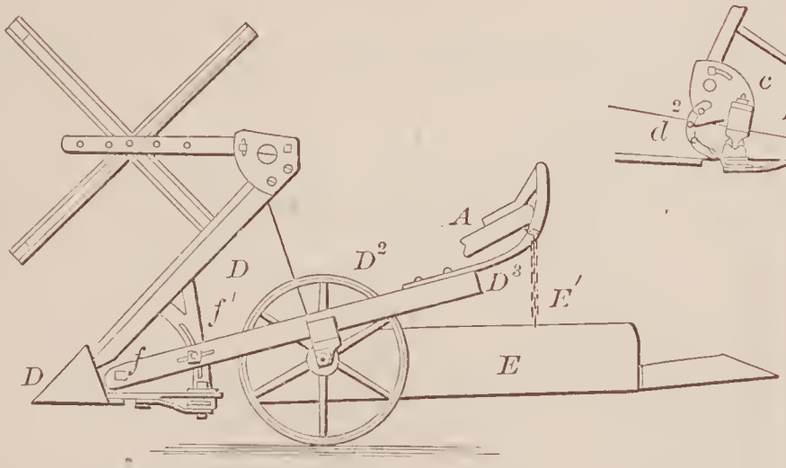


74676—G. Esterly—*Harvester.*

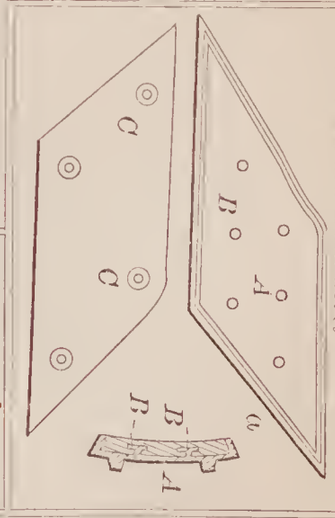


74675—W. J. Emens—*Spring Bed Bottom.*

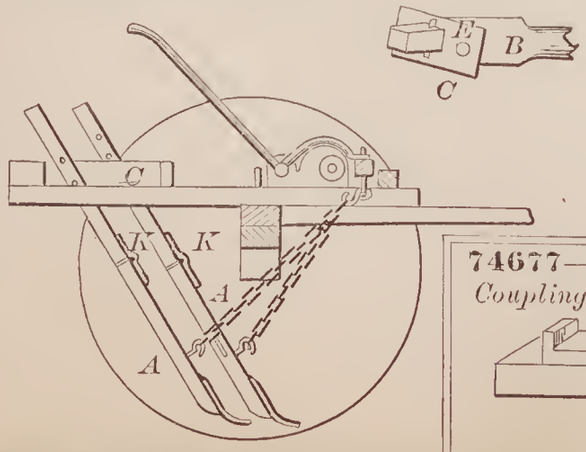




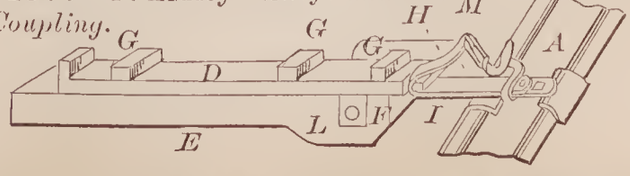
74679—Gaines & Scott—*Plow Mould Boards.a*



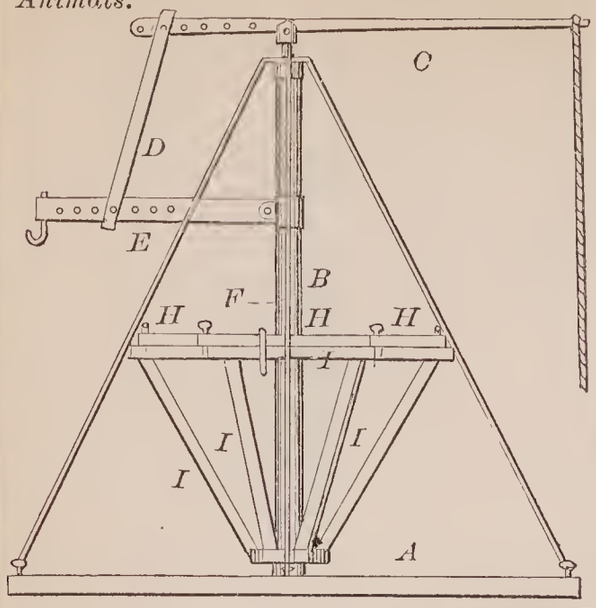
74678—J. Frank—*Cultivator.*



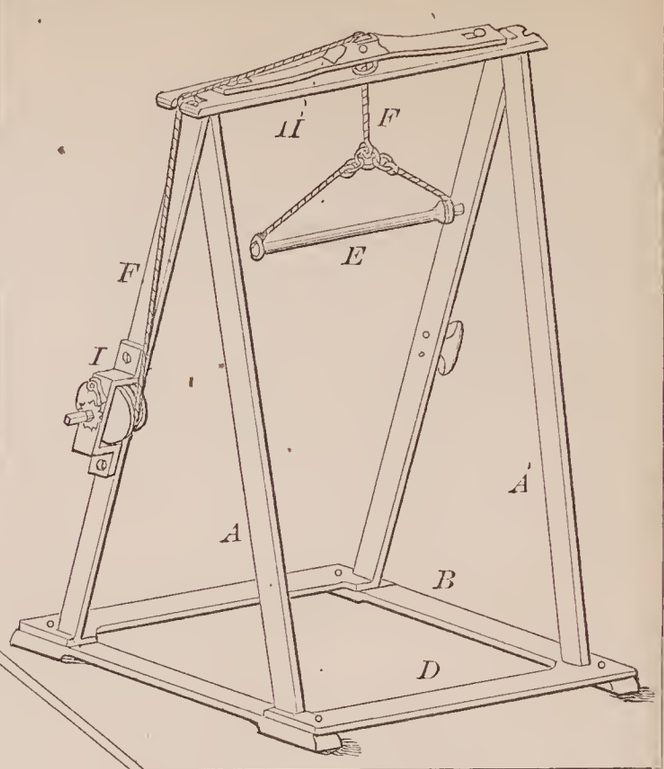
74677—P. Finley—*Shaft and Pole Coupling.*

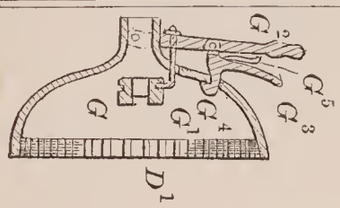


74681—A. Graves—*For Handling Animals.*

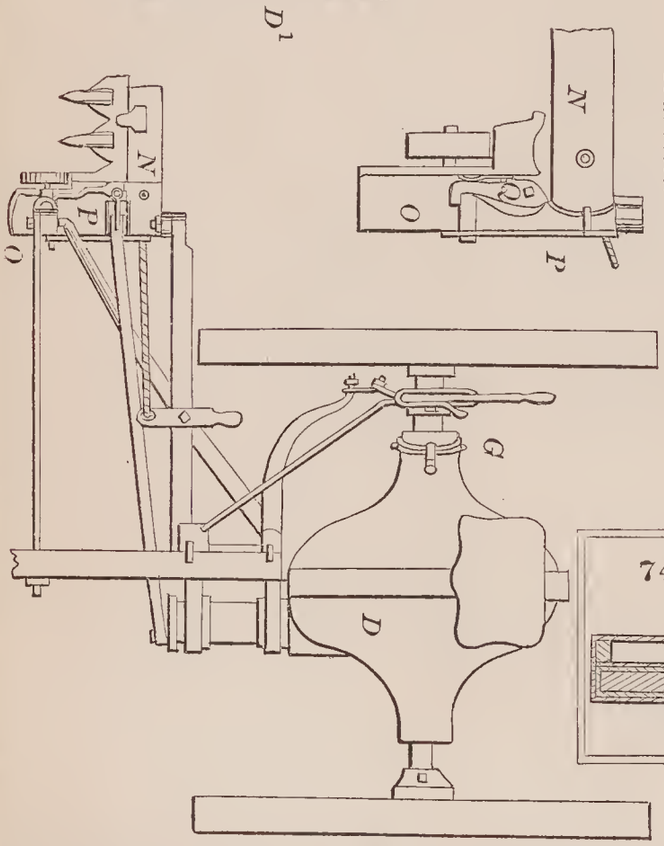


74683—G. W. S. Hall—*Exercising Apparatus.*

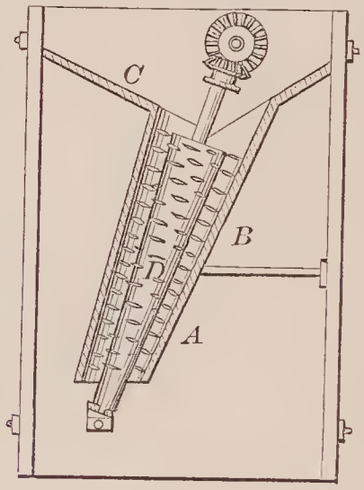




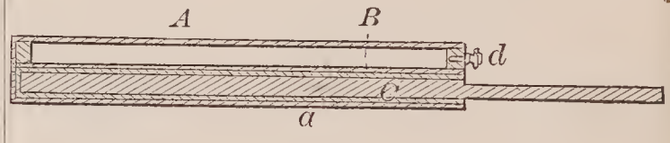
74685—B. G. H. Hathaway—*Harvester*



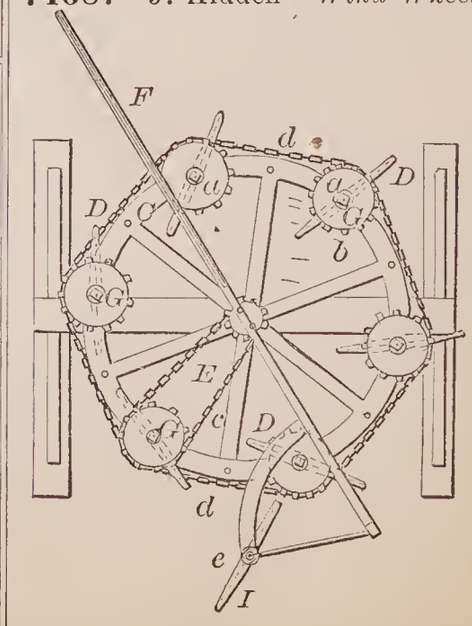
74682—Z. G. Greenleaf—*Bait and Vegetable Cutter.*



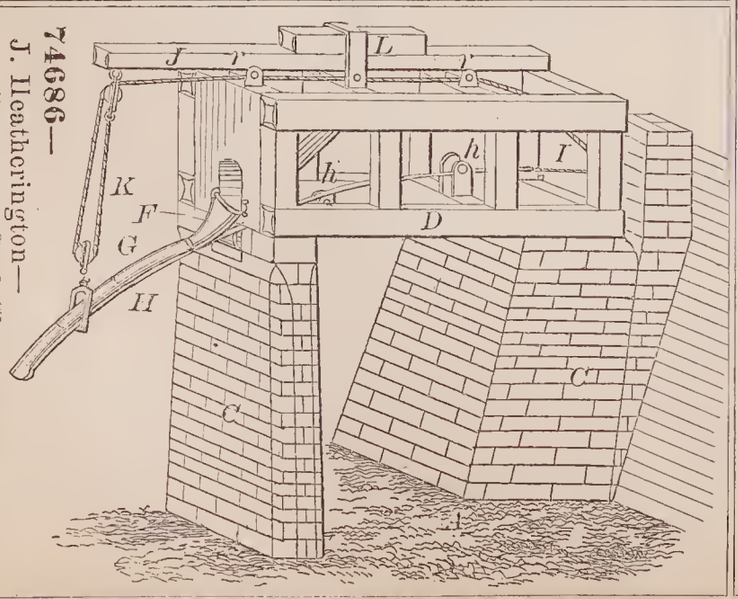
74684—J. P. Hall—*Razor Strop.*



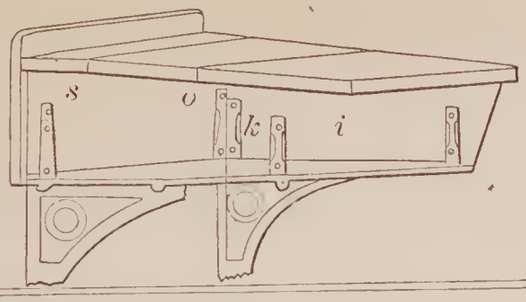
74687—J. Hidden—*Wind Wheel.*



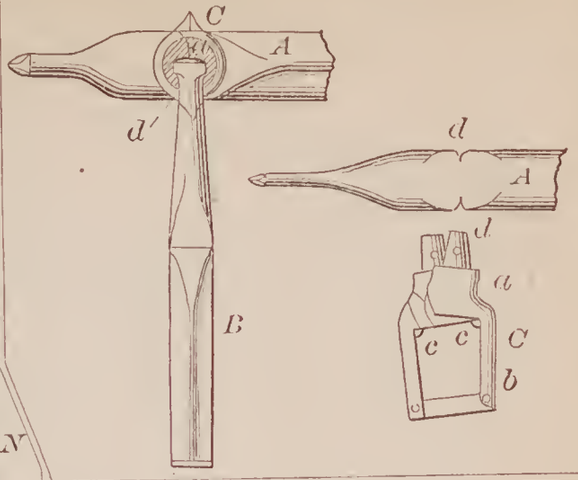
74686—J. Heatherington—*Extension Coal Chute.*



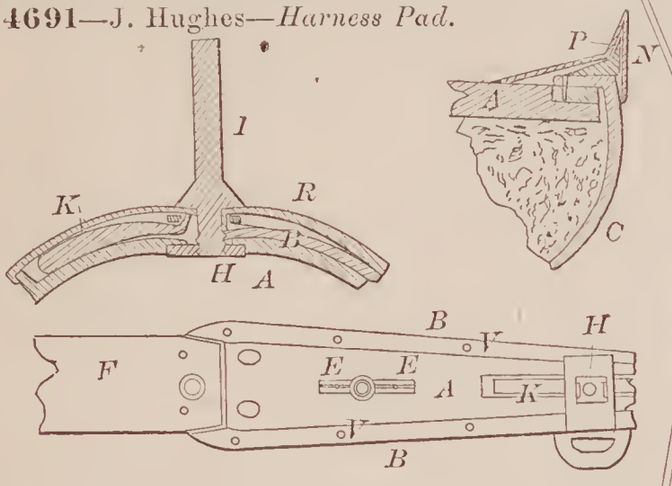
74688—G. W. Hildreth—*School Desk.*



74689—E. Hitt—*Carriage.*

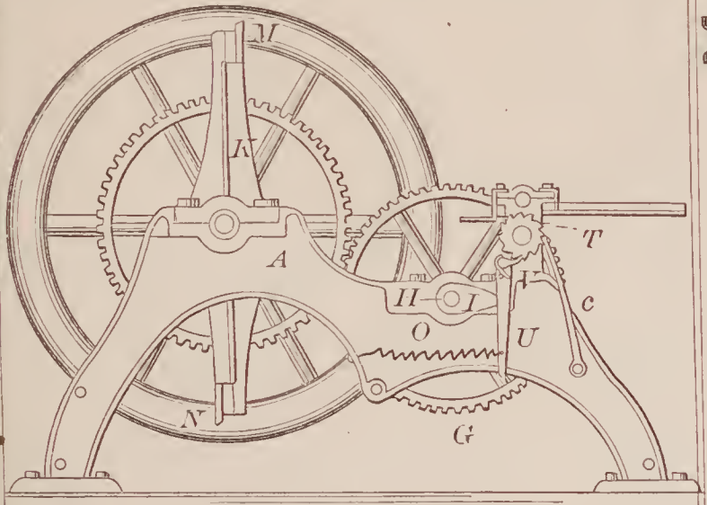


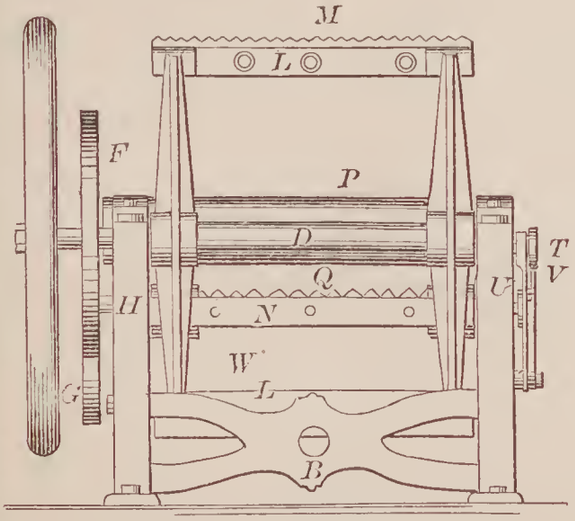
74691—J. Hughes—*Harness Pad.*



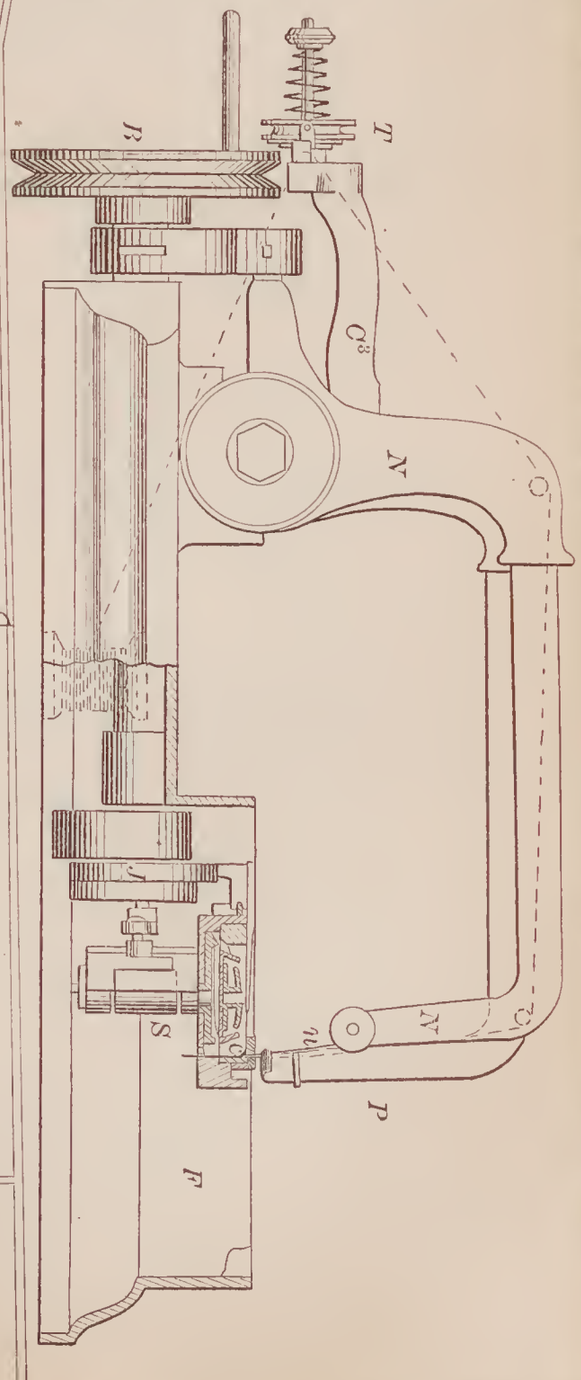
74690—L. Howe—*Fence.*

74693—J. M Jay—*For Cutting Glaziers' Points.*



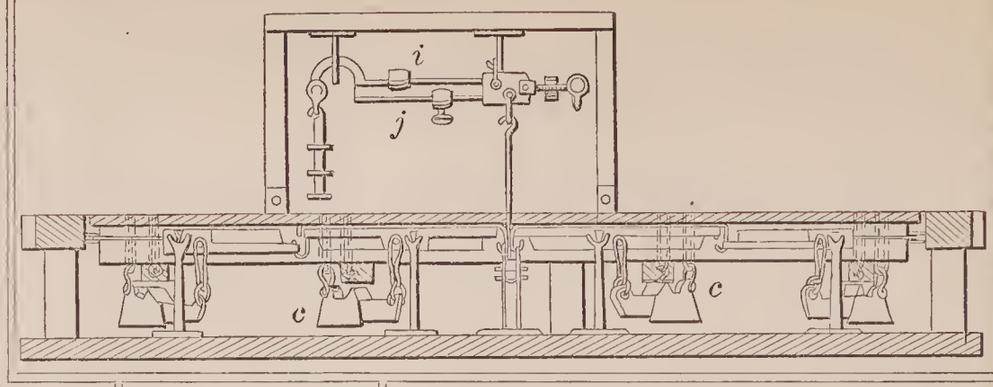


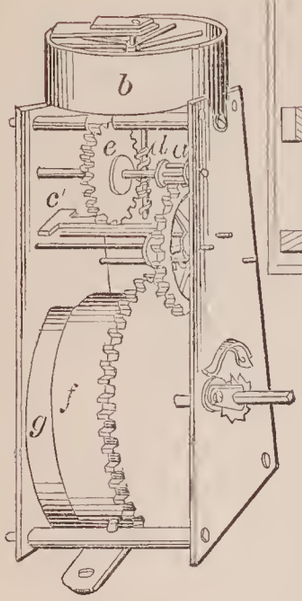
74694—G. L. Jencks—*Sewing Machine.*



74692—E. D. Ives—*Picture Knob.*

74696—J. F. Keeler—*Platform Scale.*

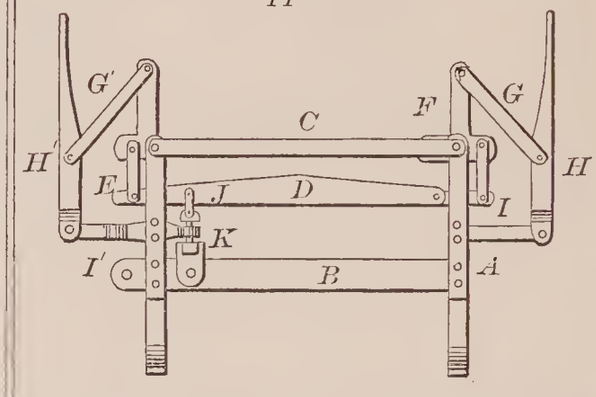


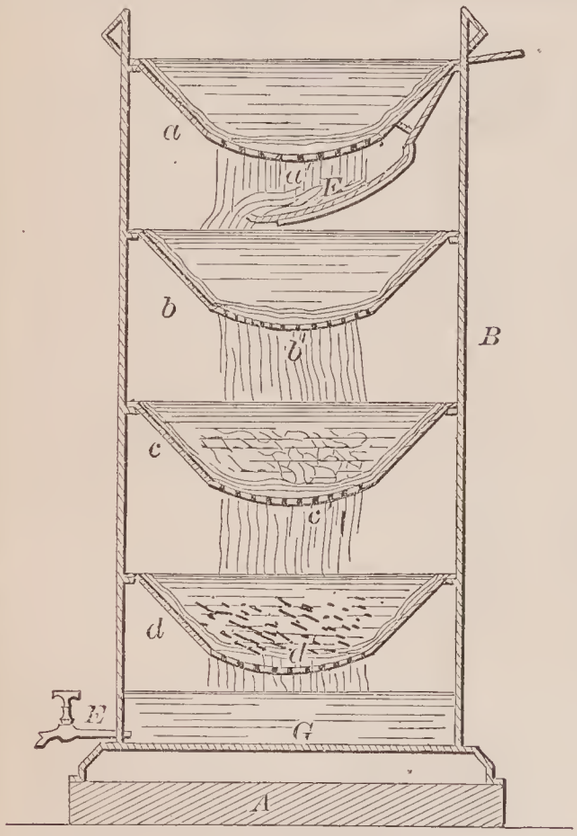


74695—G. A. Jones—*Lamp Train.*

74697—W. Kenyon, Jr.—*Pipe Tongs.*

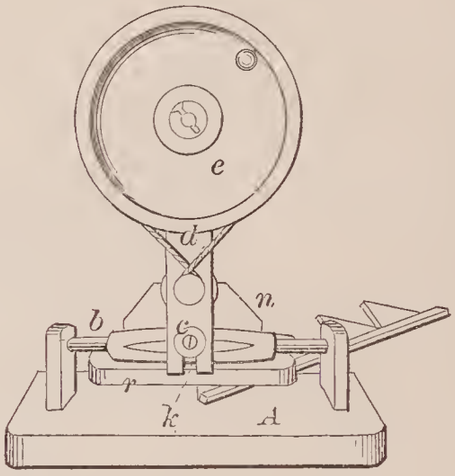
74700—I. Lamplugh—*Punching Apparatus.*

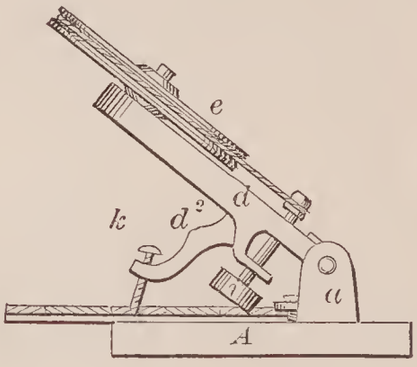


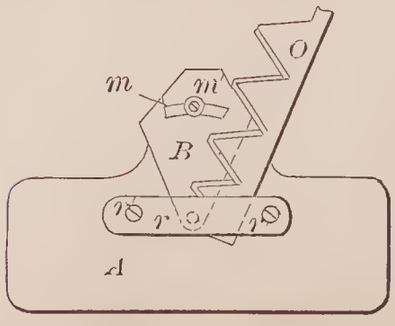


74698—J. D. Kirkpatrick—*Filtering Burning Fluid.*

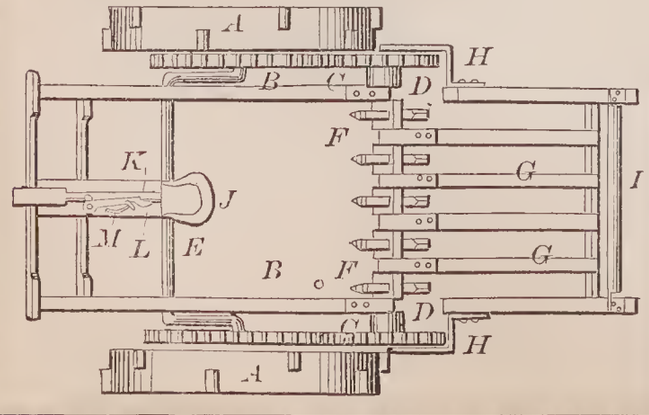
74701—W. H. Laubach—*For Grinding Mowing Machine Cutters.*



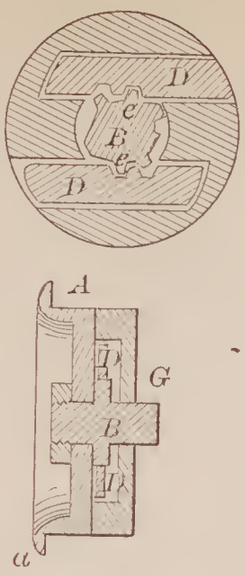




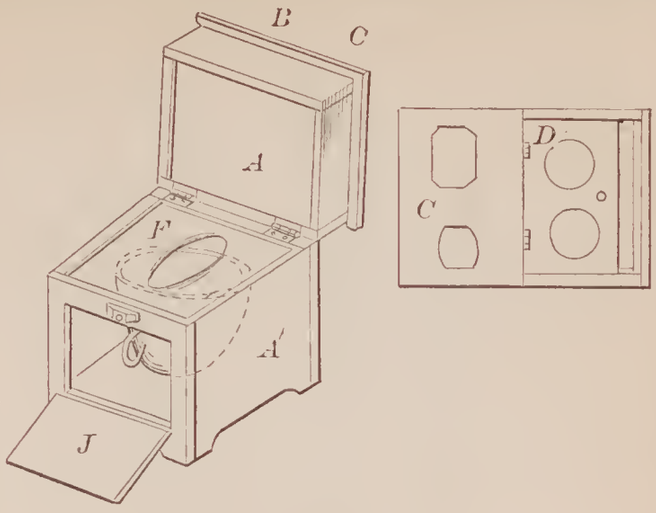
74699—Koenig & Otto—*Potato Digger.*



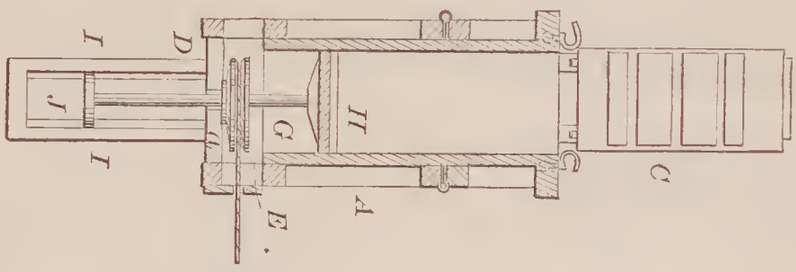
74702—J. B. Lefferson—*Bung.*



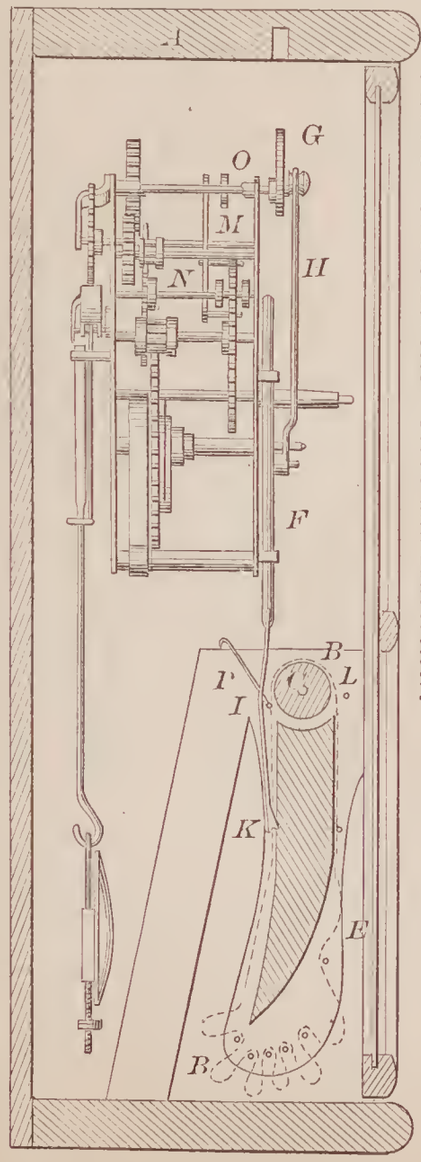
74705—J. Macferran—*Blacking Case and Closet.*



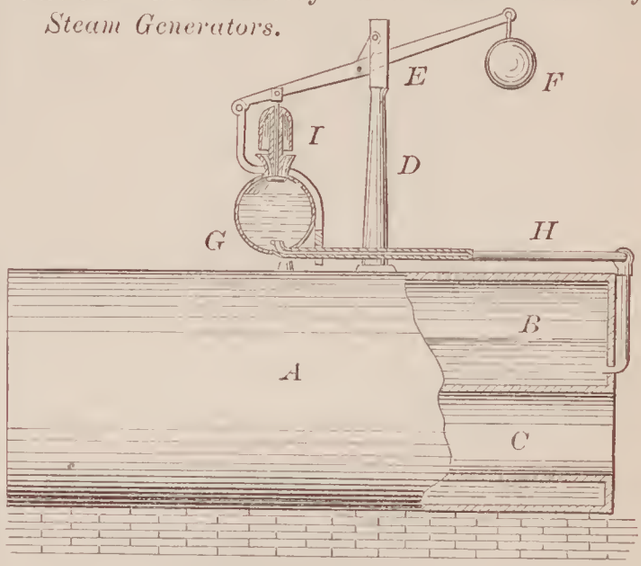
74703—C. Lent—*Hay and Cotton Press.*



74704—G. M. Levette—*Clock and Advertiser.*

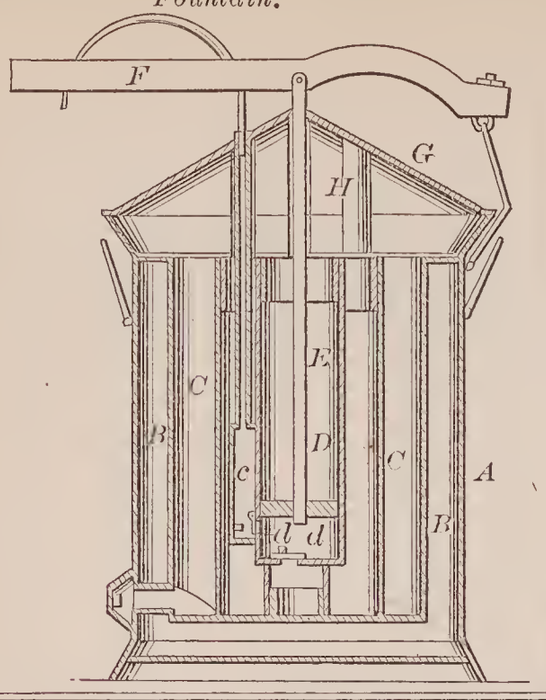


74706—G. B. Massey—*Low Water Detector for Steam Generators.*

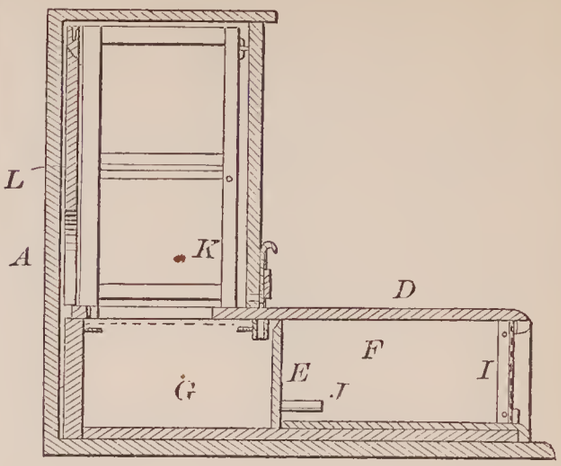


74707—D. S. McNamara—*Shoe.*

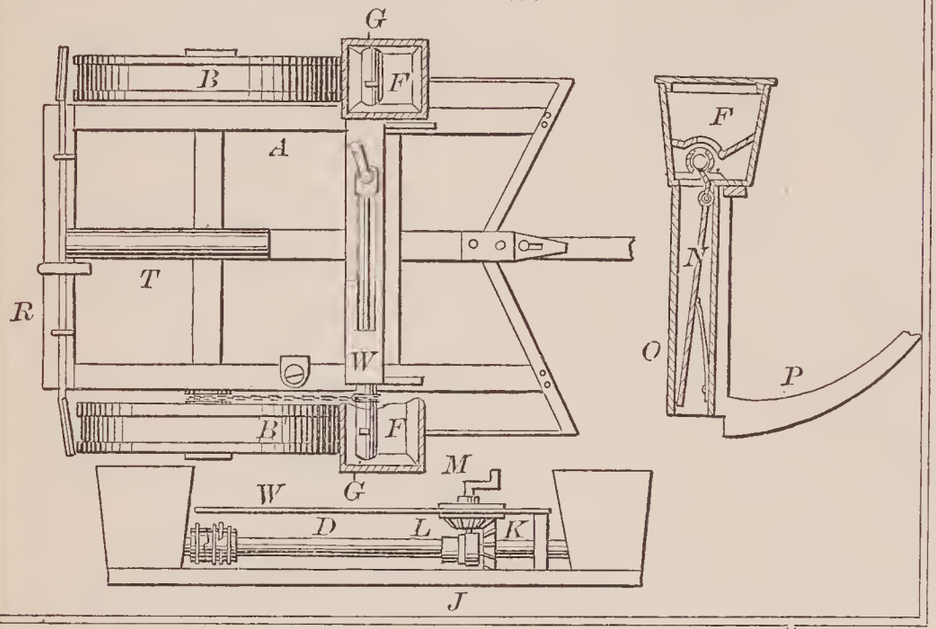
74708—Milroy, Vaughn & Turley—*Soda Fountain.*



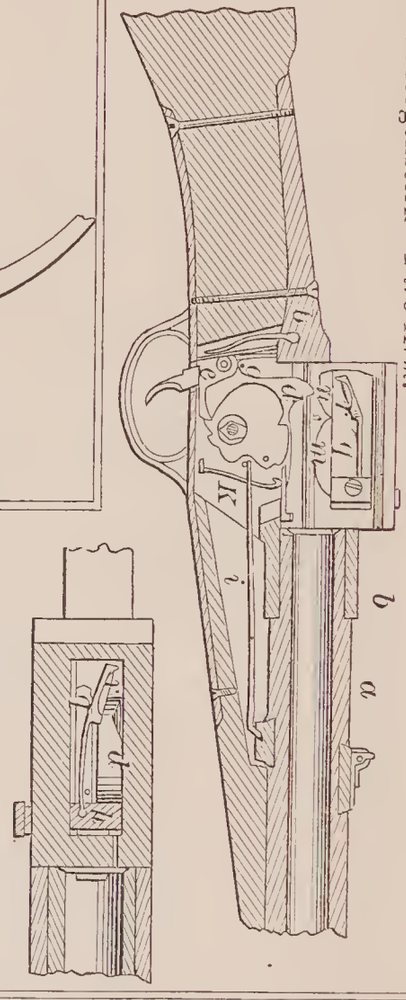
74709—N. C. Mitchell—*Beehive.*



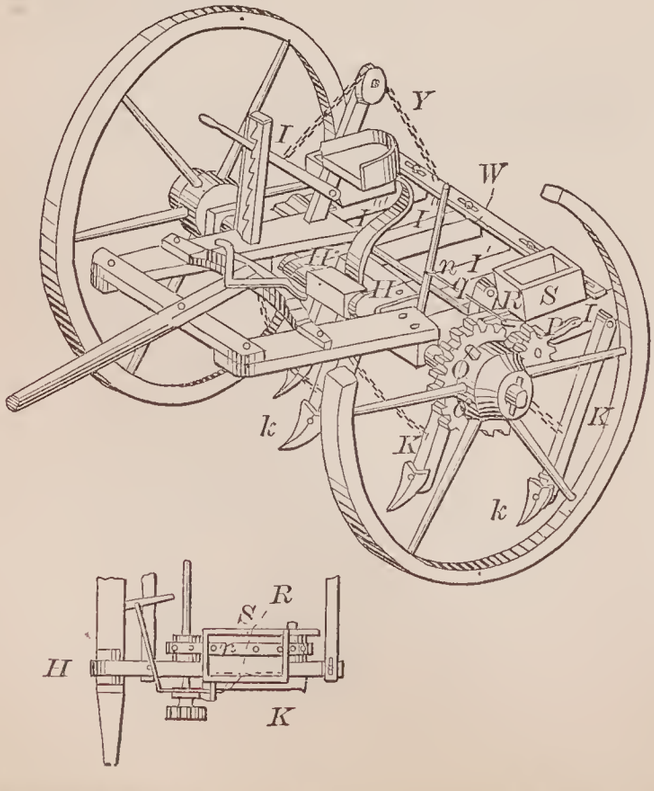
74710—W. H. Moore—*Corn Planter.*



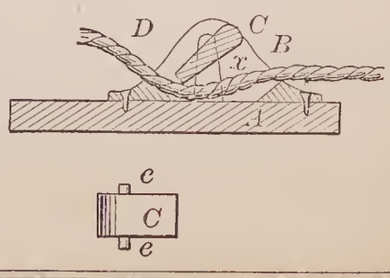
74712—W. Morgenstern—*Fire Arm.*



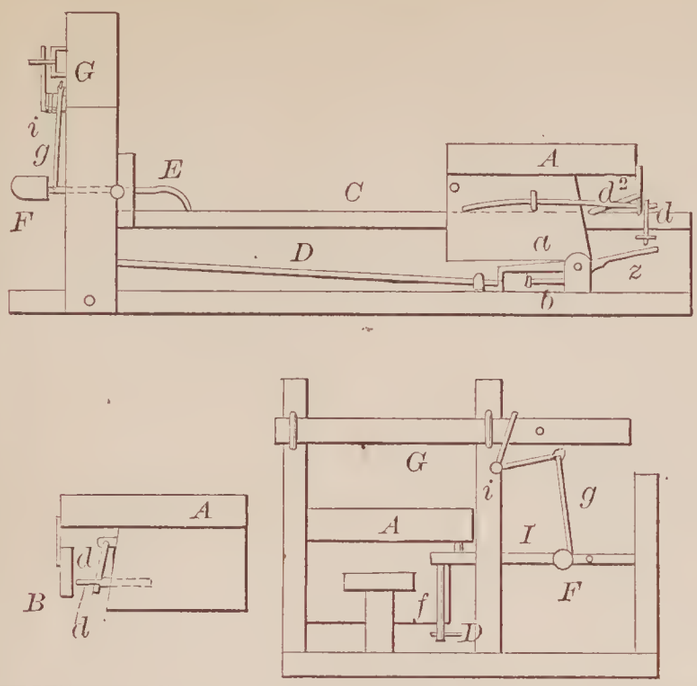
74711—W. H. Moore—*Corn Planter.*



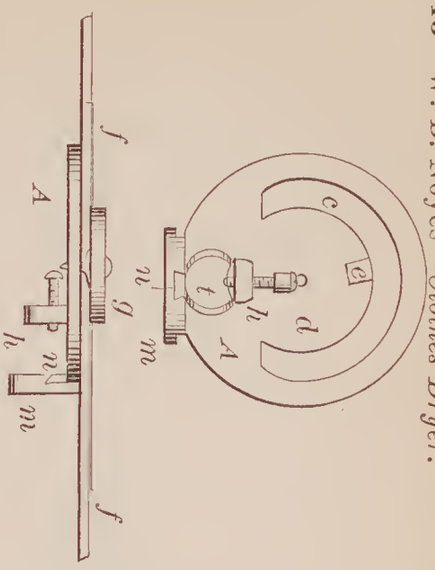
74713—G. R. Nebinger—*Clothes Line Clamp.*



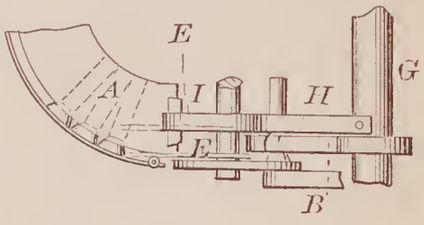
74714—T. Netherwood—*Spinning Jack.*



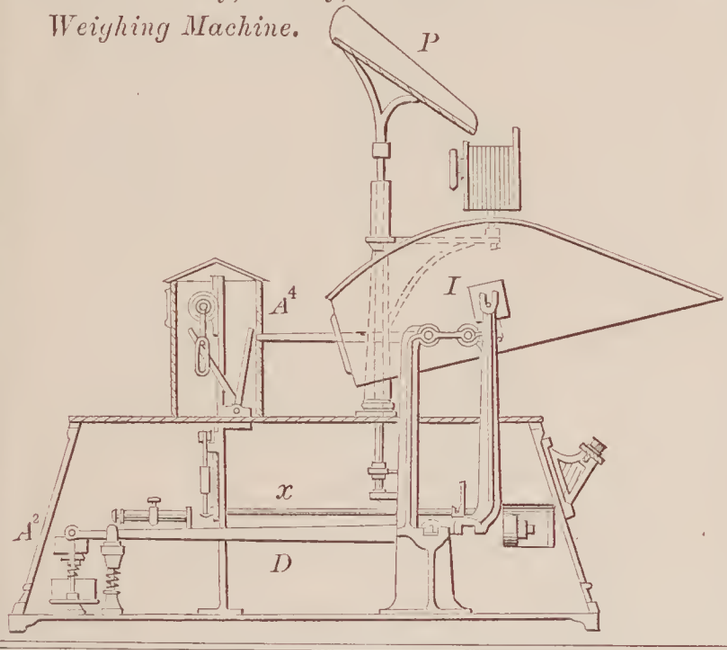
74715—W. B. Noyes—*Clothes Dryer.*



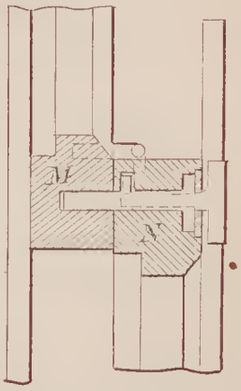
74717—E. S. Pierce—*For Conveying Screw Blanks.*



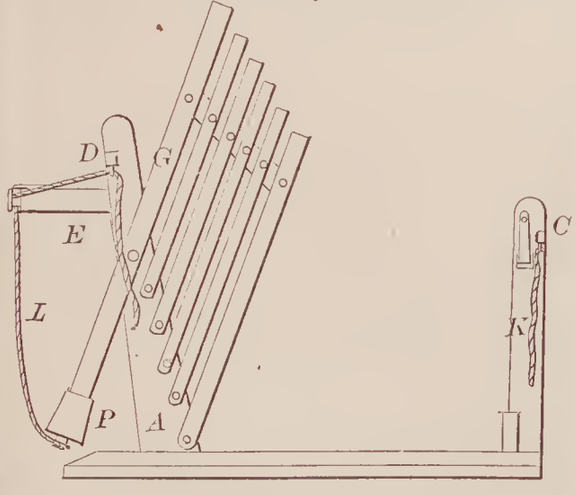
74719—Pooley, Pooley, Roberts & Luc—*Grain Weighing Machine.*



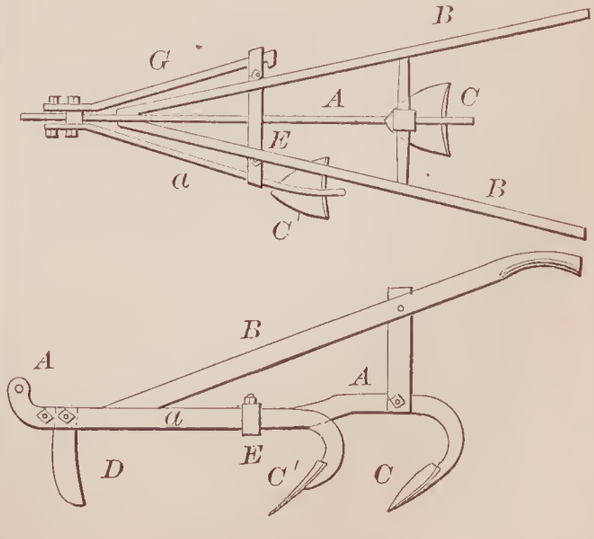
74718—I. Pierson—*Window Sash Fastener.*



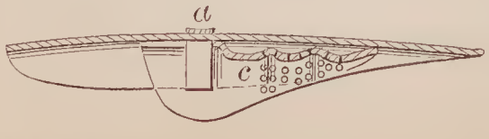
74716—O. & C. Perry—*Gate.*



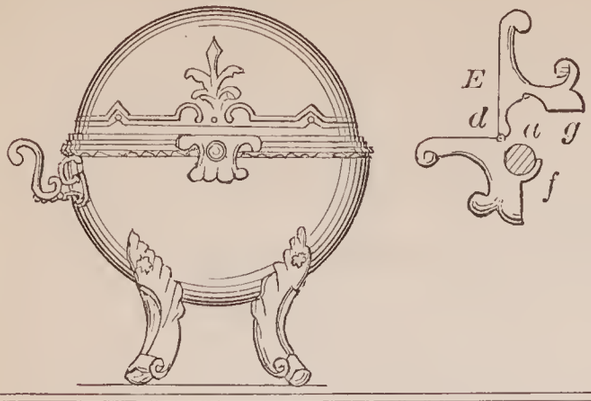
74721—B. F. Ream—*Plow and Cultivator.*



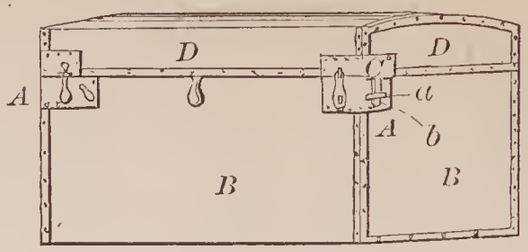
74720—E. L. Pratt—*Pen.*



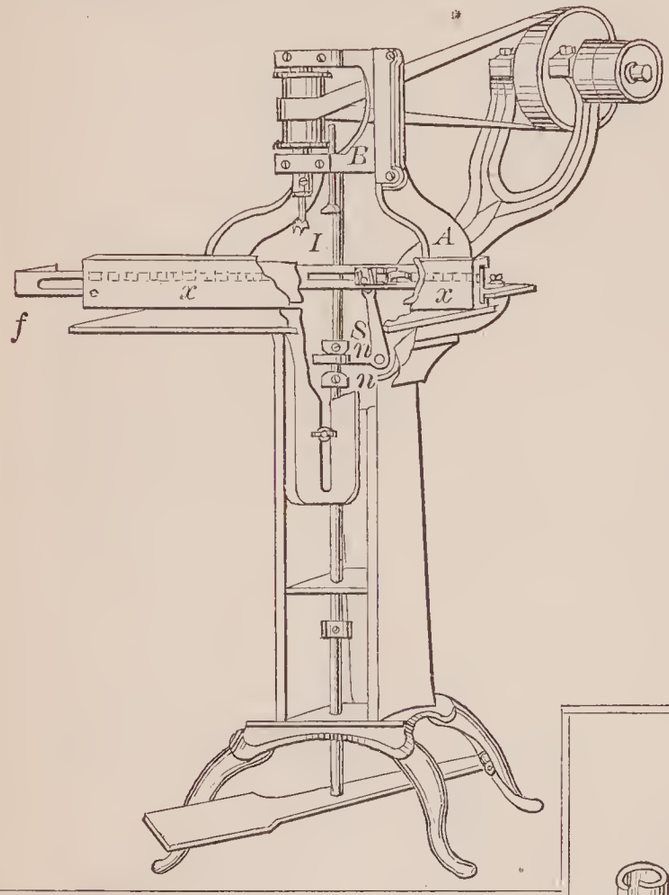
74722—I. A. Richards—*Butter Dish.*



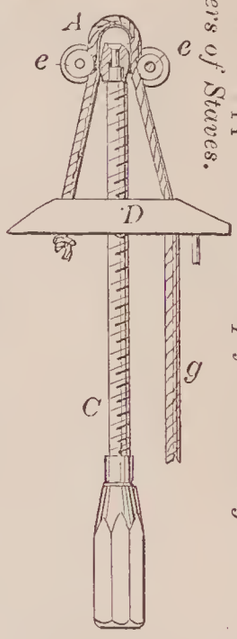
74723—E Semple—*Trunk.*



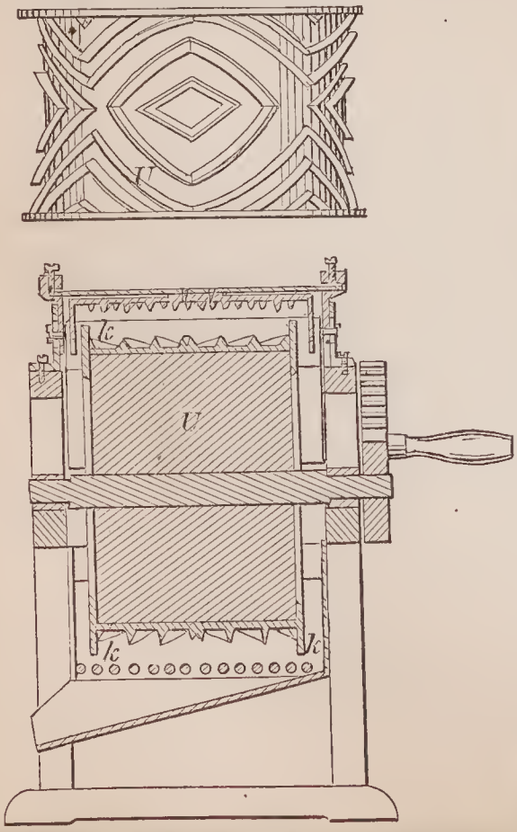
74724—J. M. Seymour—*Spacing and Roving Machine.*



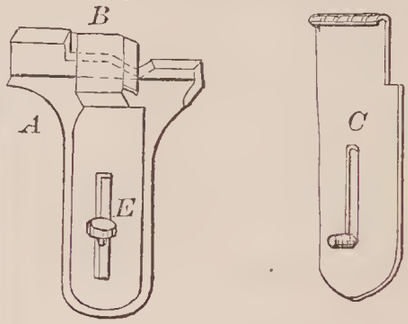
74725—W. Shepperman—*Clamp for Trussing Cylinders of Staves.*



74726—E. F. Sherman—*Corn Sheller.*

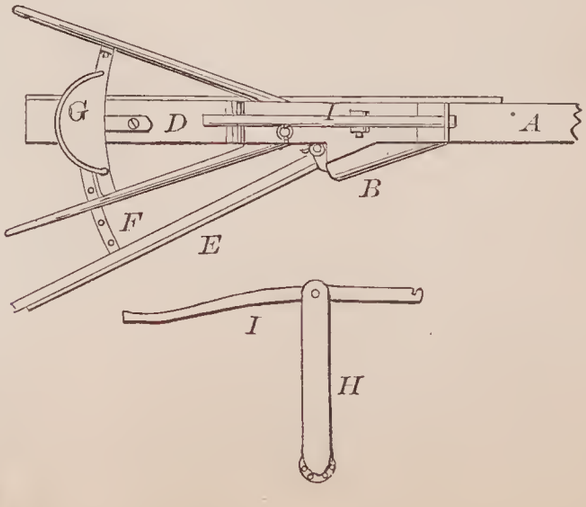


74727—L. C. Session—*Sewing Machine Guide.*

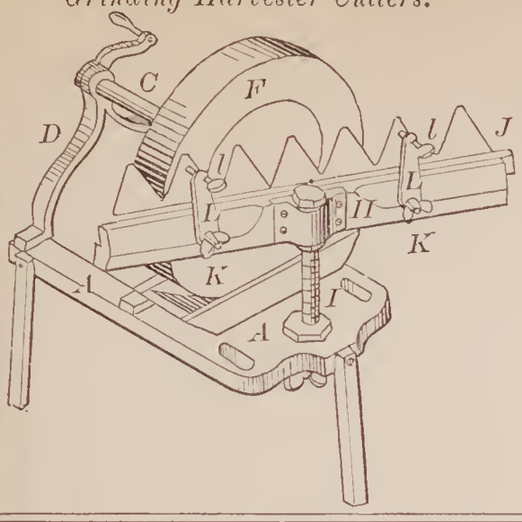


74728—O. C. Sawyer—*Pencil Sharpener.*

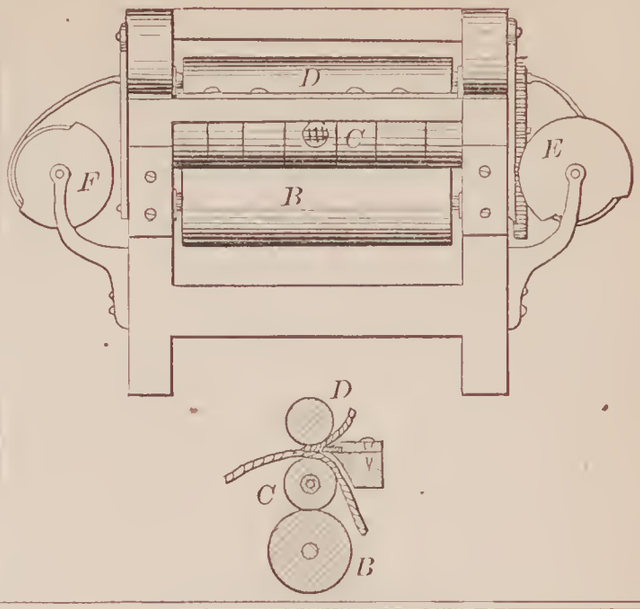
74729—S. W Standart—*Plow.*

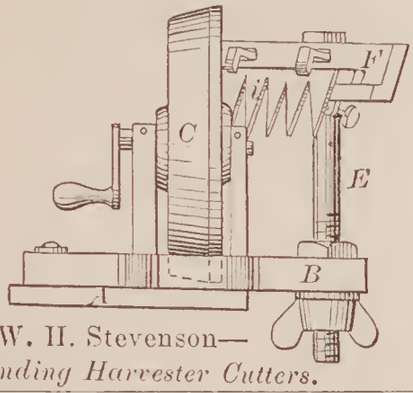


74730—W. H. Stevenson—*For Grinding Harvester Cutters.*



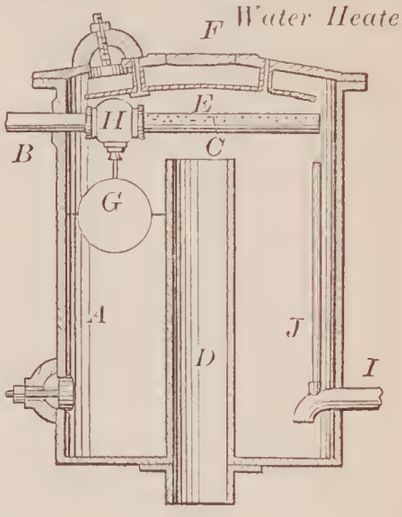
74734—F. J. Vittum—*Leather Splitting Machine.*



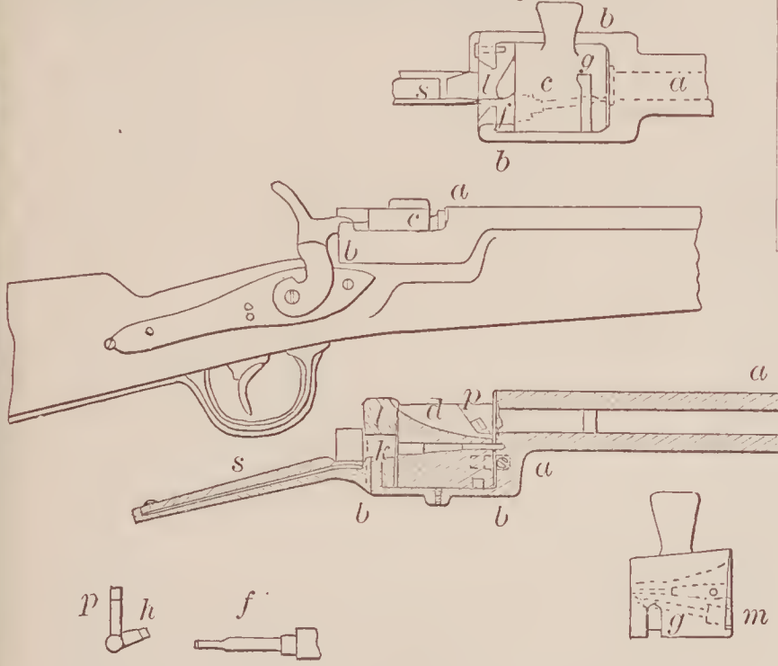


74731—W. H. Stevenson—*For Grinding Harvester Cutters.*

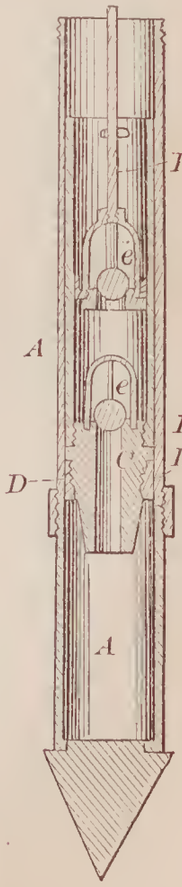
74735—H. N. Waters—*Feed Water Heater.*



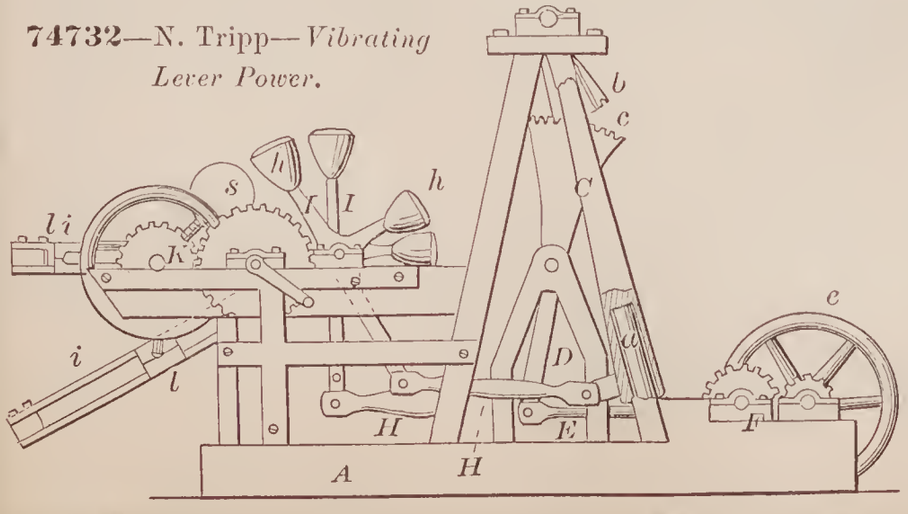
74737—J. Werndl—*Breech-Loading Fire Arm.*



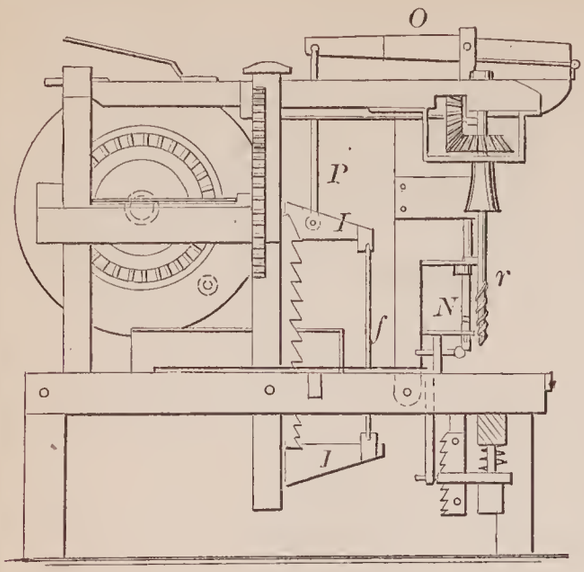
74738—J. T. Whipple—*Deep Well Pump.*

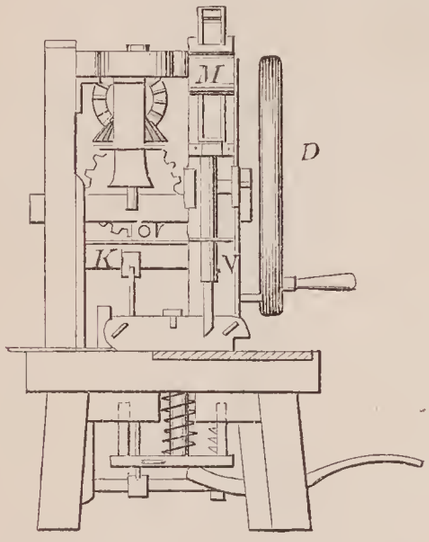


74732—N. Tripp—*Vibrating Lever Power.*

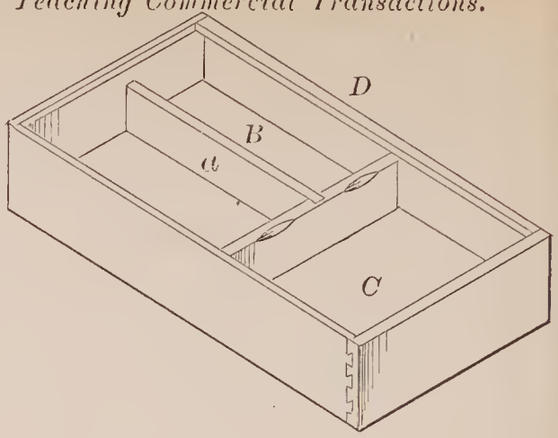


74739—L. W Wolfe—*Mortising Machine.*

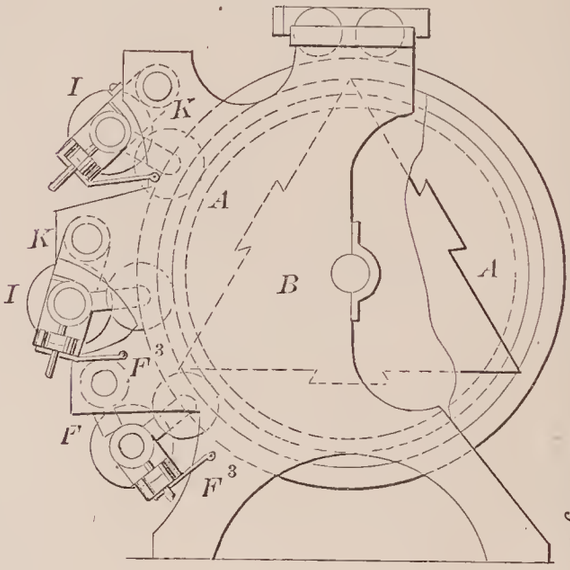


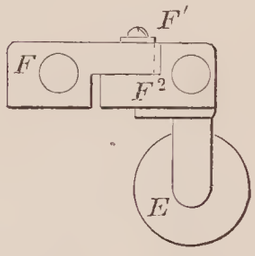


74740—C. A. Walworth—*Device for Teaching Commercial Transactions.*

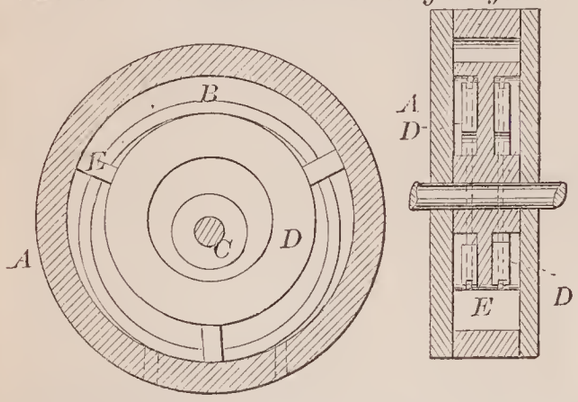


74741—G. W. Wood—*Color Printing Press.*



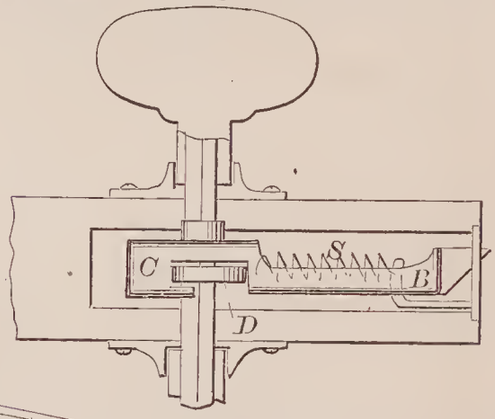


74744—J. B Bennett—*Rotary Engine.*

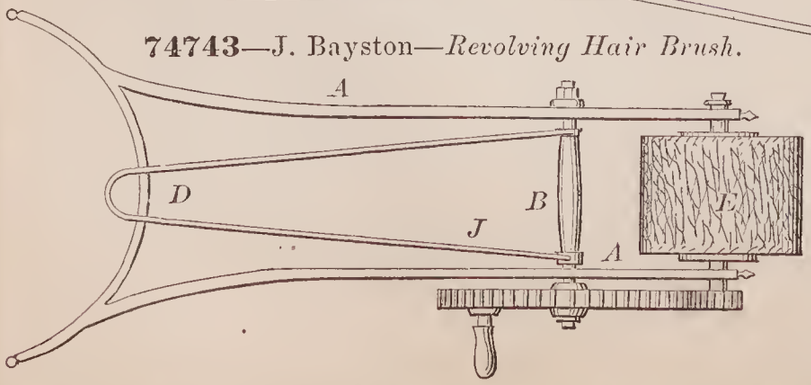


74742—S. W. Baker—*Horse Blanket.*

74746—A. Bingham—*Knob Latch.*

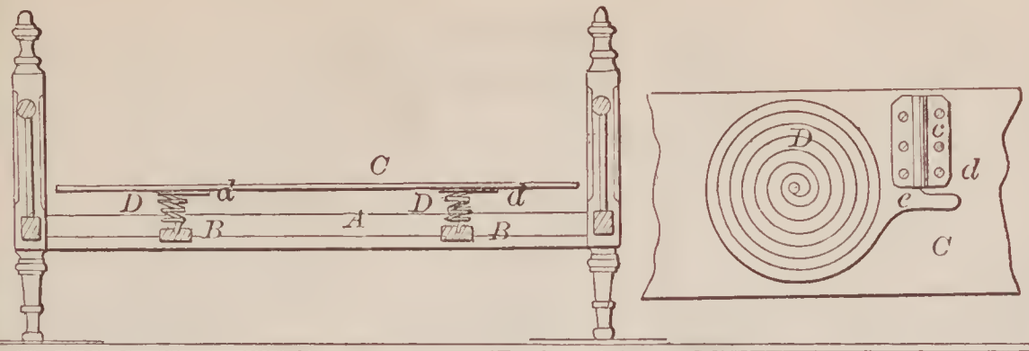


74743—J. Bayston—*Revolving Hair Brush.*

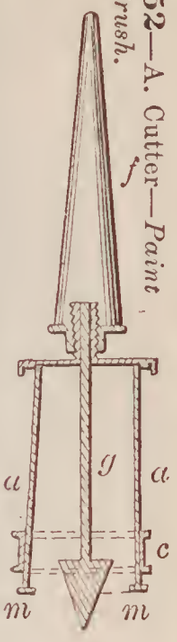


74745—J. M Bent—*Shoe Nail.*

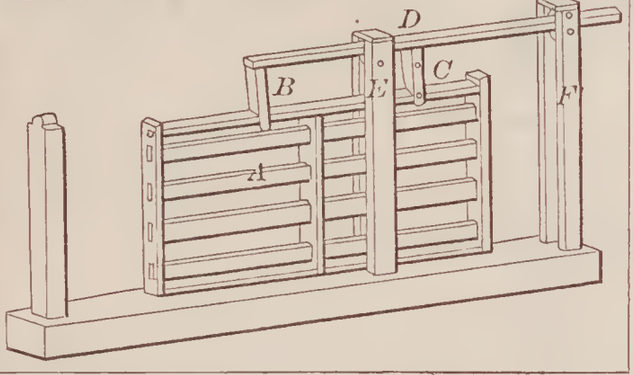
74747—Bouton & Ames—*Spring Bed Bottom*



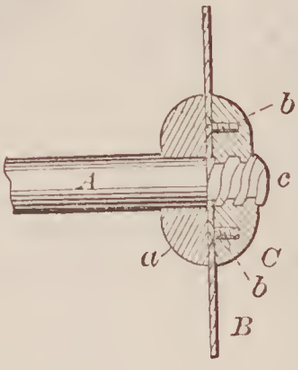
74752—A. Cutter—*Paint Brush.*



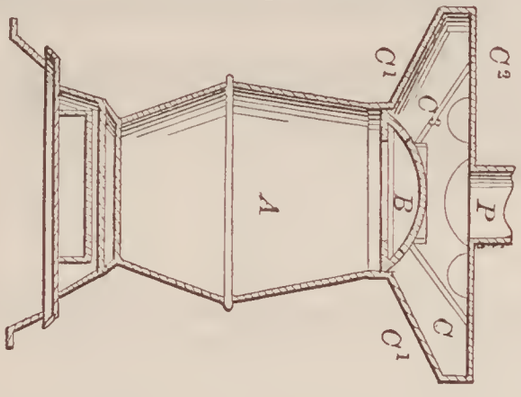
74746—H. H. Butler—*Farm Gate.*



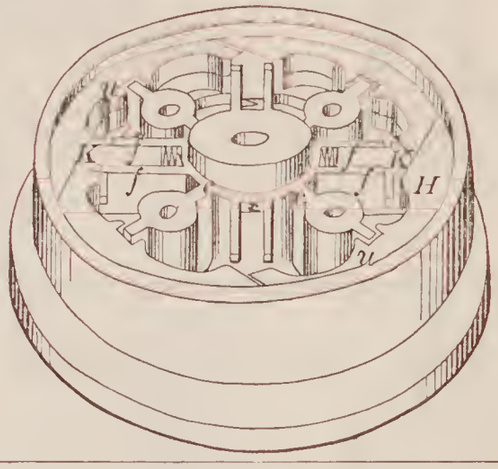
74749—E. Calley—*Attaching Circular Saws to Mandrels.*



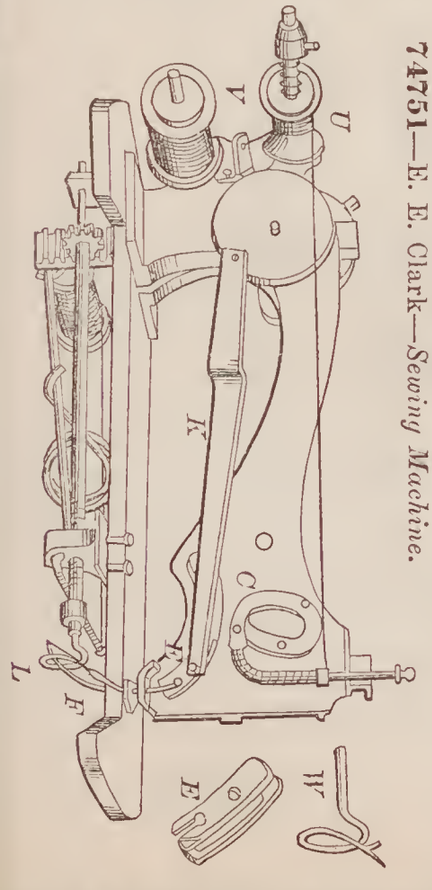
74753—E. A. De Camp—*Coal Stove.*



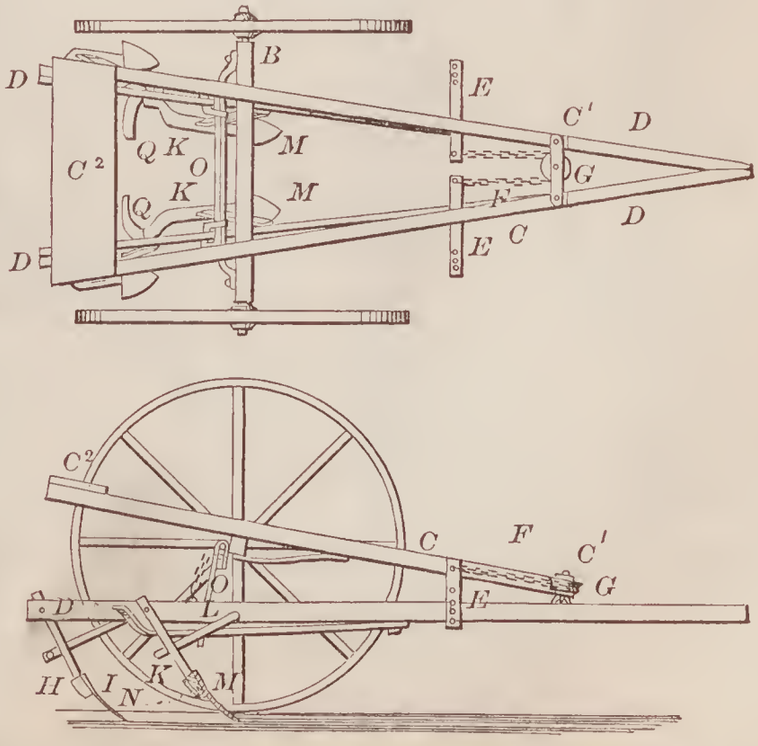
74750—S. E. & I. Y. Chubbuck—*Piston.*



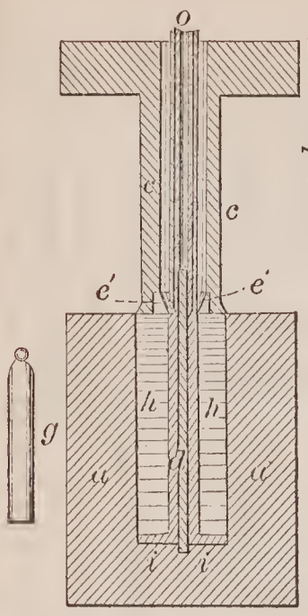
74751—E. E. Clark—*Sewing Machine.*



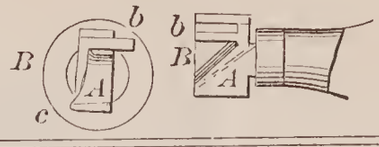
74754—E. S. Easterday—*Sulky Cultivator.*



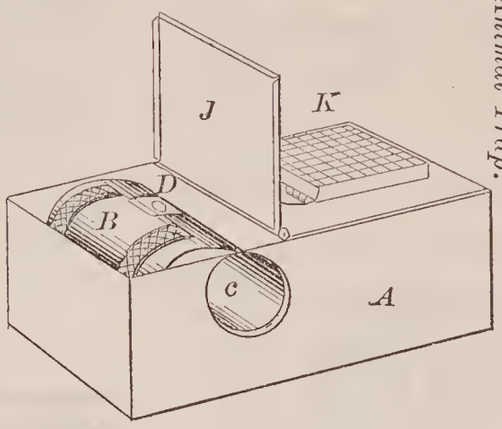
74755—I. Farrell—*Manufacture of Tin-Lined Lead Pipe.*



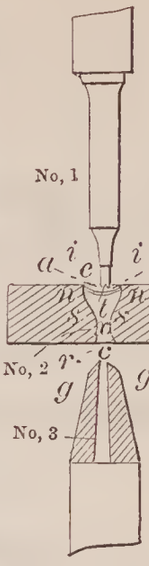
74757—A. V. Hill—*Work Trimmer for Boots and Shoes.*



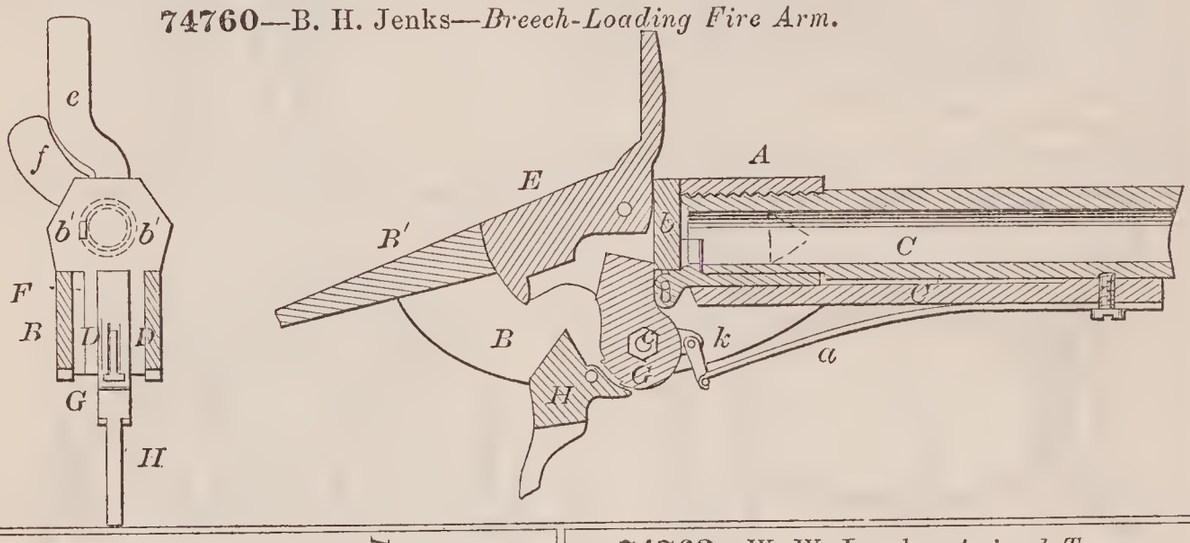
74759—S. Huffman—*Animal Trap.*



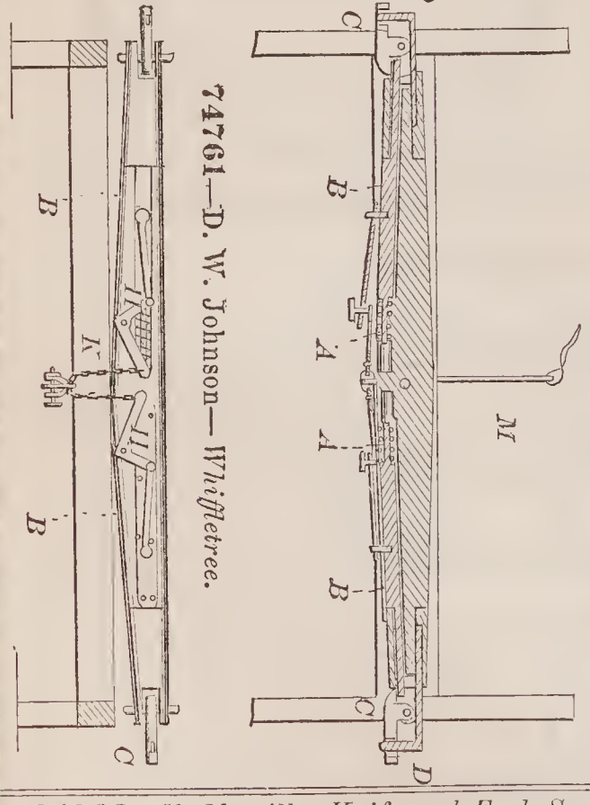
74758—D. K. Hoxsie—*For Making Eyelets.*



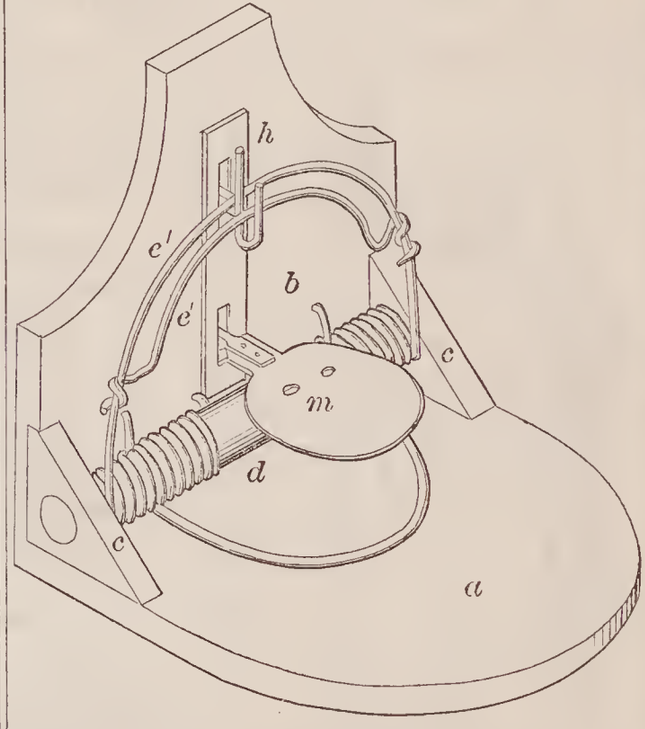
74760—B. H. Jenks—*Breech-Loading Fire Arm.*



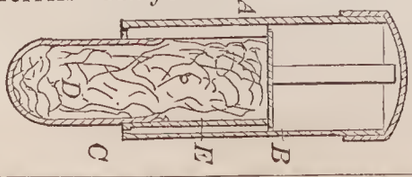
74761—D. W. Johnson—*Whiffletree.*



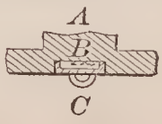
74762—W. W. Leech—*Animal Trap.*



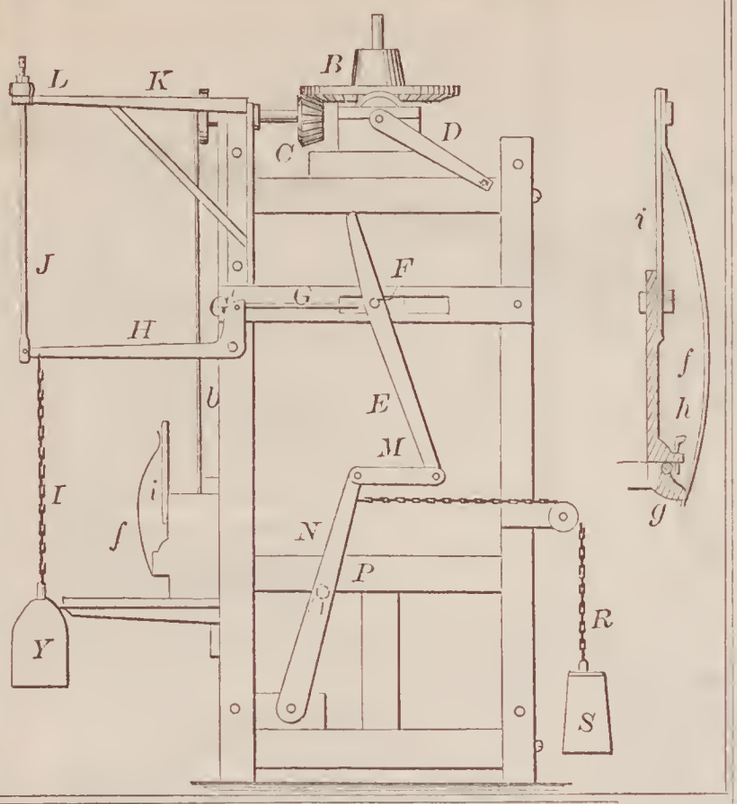
74763—H. Merrill—*Knife and Fork Scourer.*



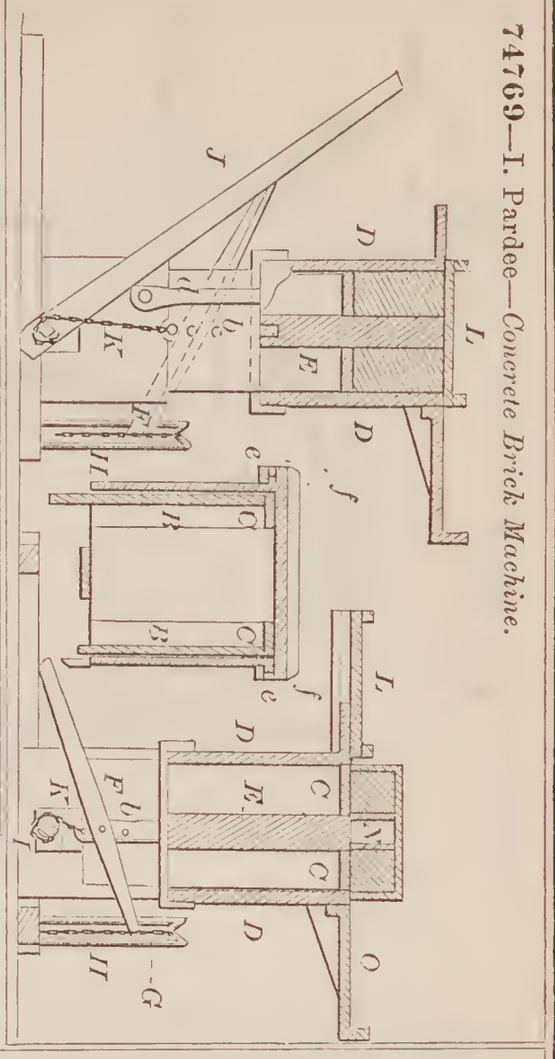
74764—L. Moses—*Button.*



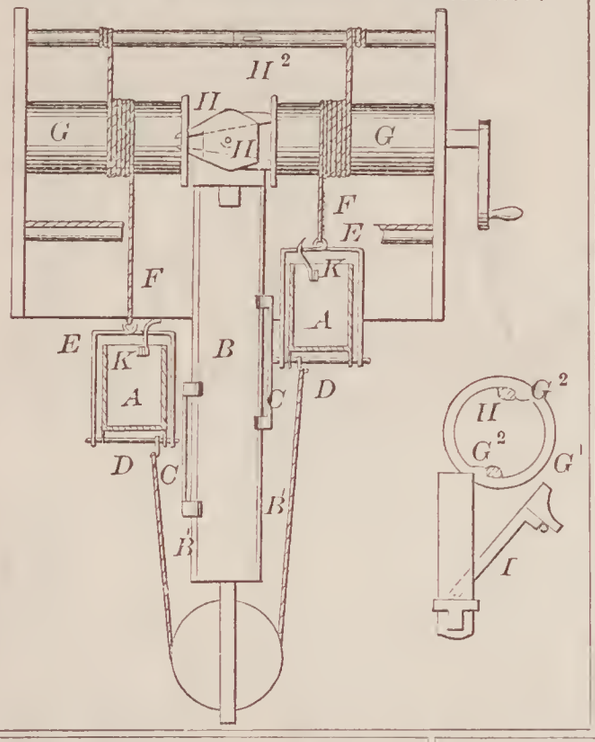
74765—Nye & Knisely—*Brick Machine.*



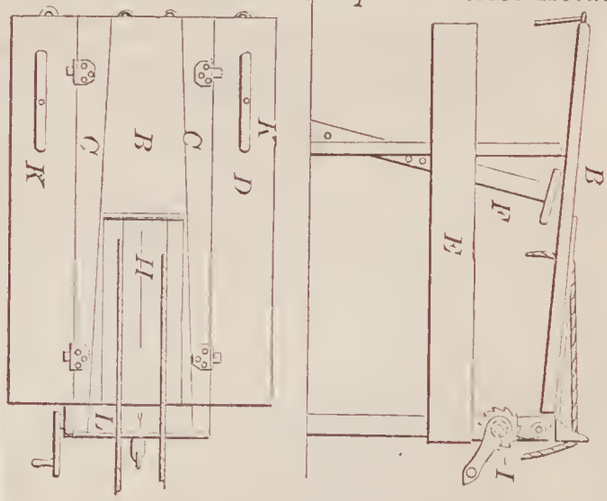
74769—I. Pardee—*Concrete Brick Machine.*



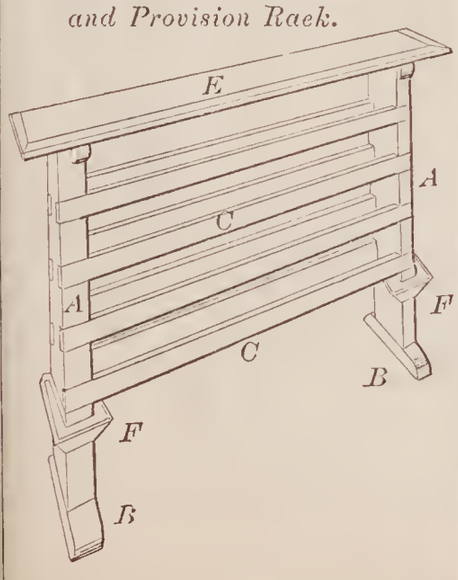
74768—W. M. Palmer—*Water Elevator.*



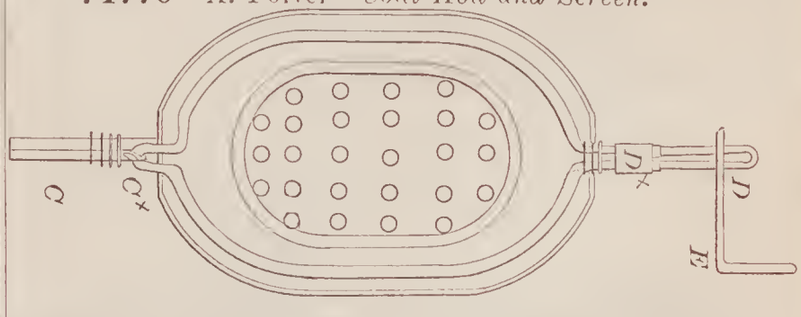
74767—G. Paine—*Sheep and Fleeee Holder.*



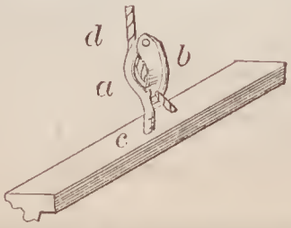
74766—E. Osborn—*Milk and and Provision Rack.*



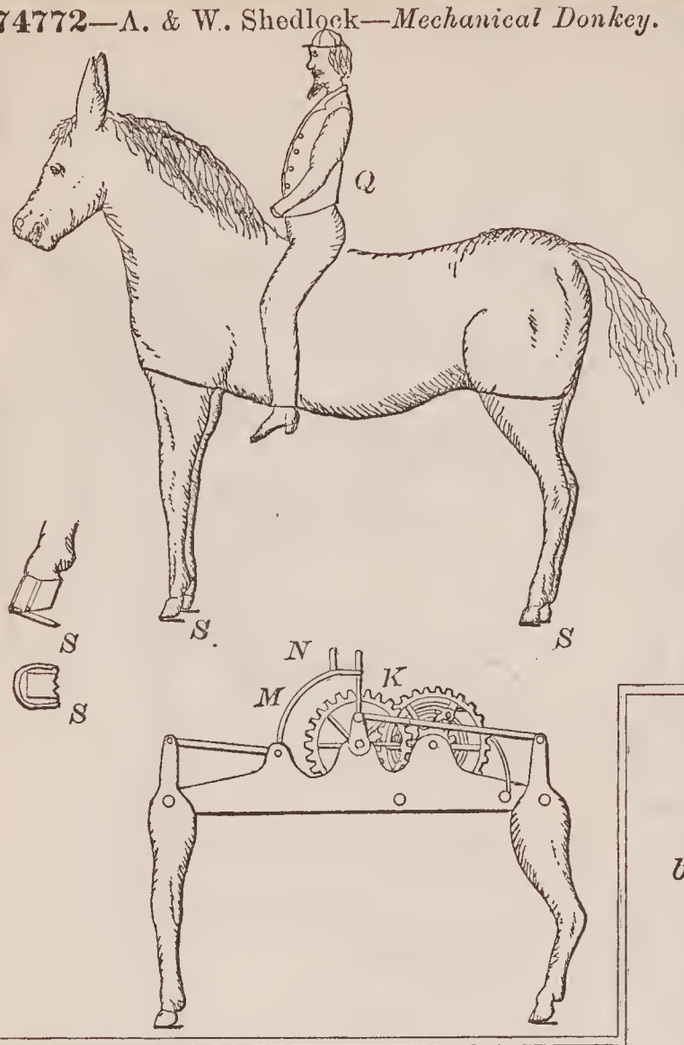
74770—A. Porter—*Coal Hod and Screen.*



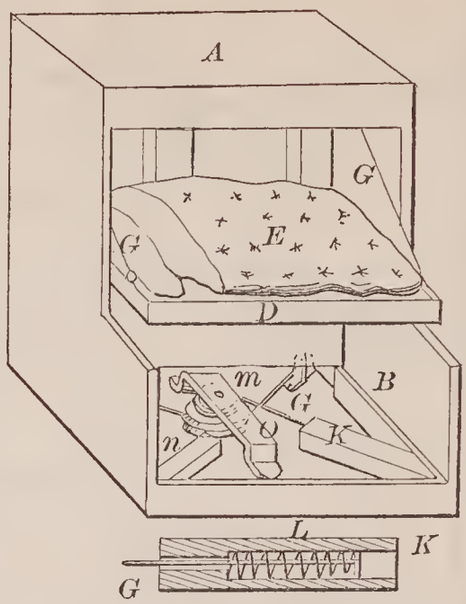
74771—W. Read, Jr.—*Cord Retainer for Pietures.*



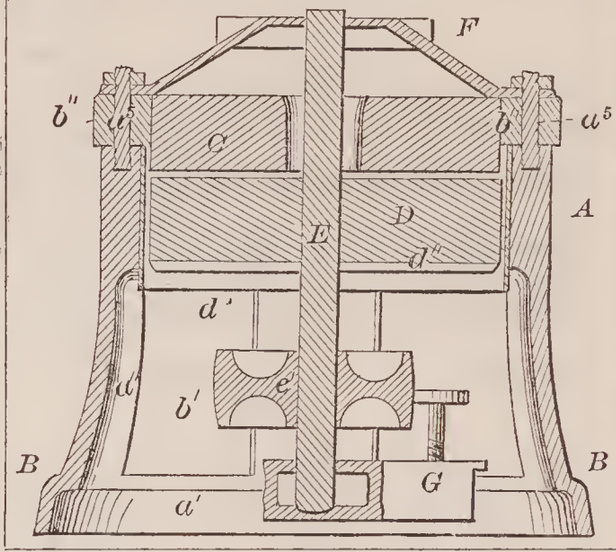
74772—A. & W. Shedlock—*Mechanical Donkey.*



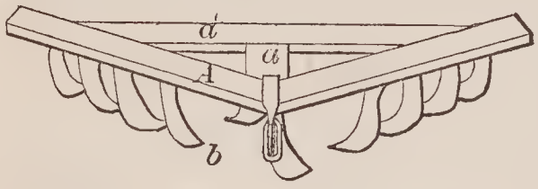
74773—W. B. Snow—*Car Berth.*



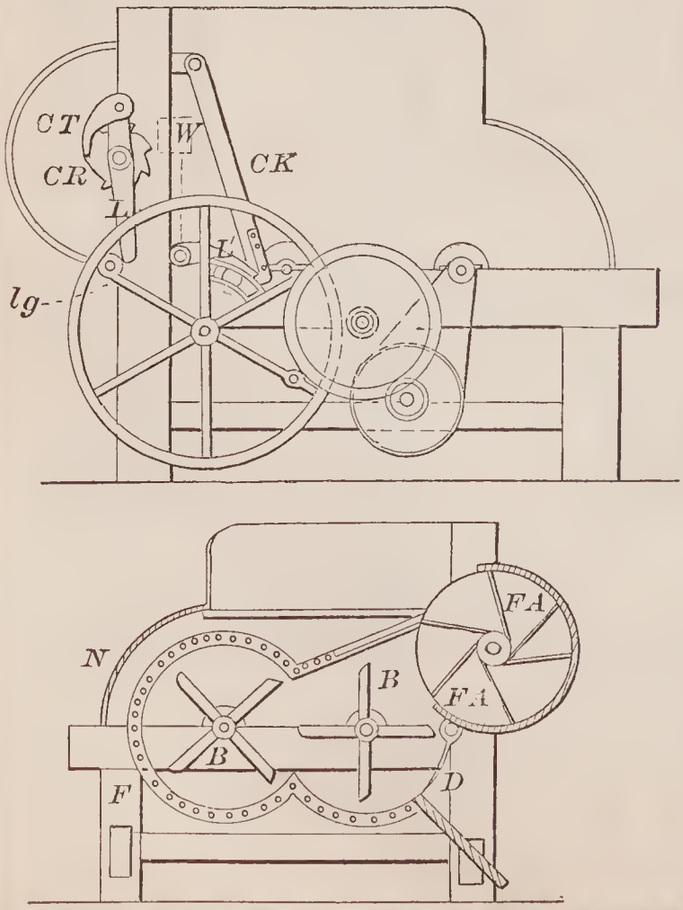
74774—A. W. Straub—*Grinding Mill.*



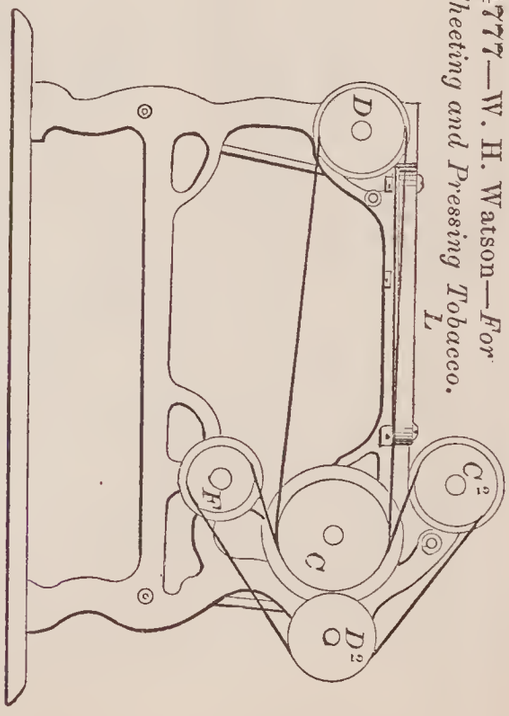
74775—C. F. Taylor—*Cultivator.*



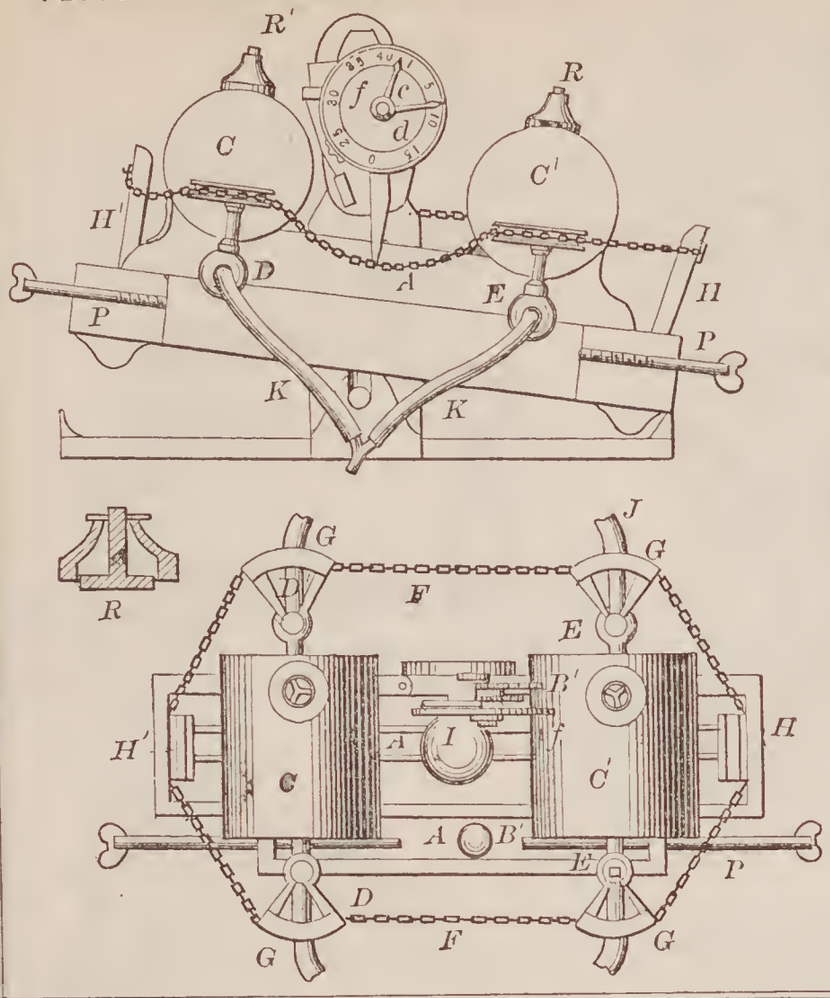
74776—J. W. Thorn—*Cotton Cleaner.*



74777—W. H. Watson—*For Sheeting and Pressing Tobacco.*

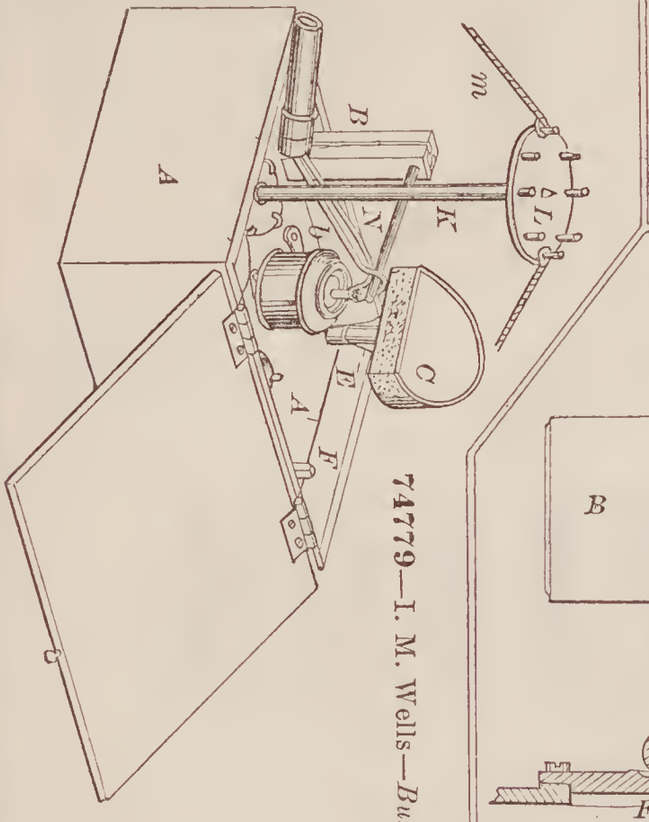


74778—J. W. Weller—*Fluid Meter.*

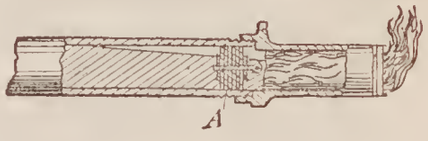


74780—Westbrook & Doan—*Detaching Check Rein.*

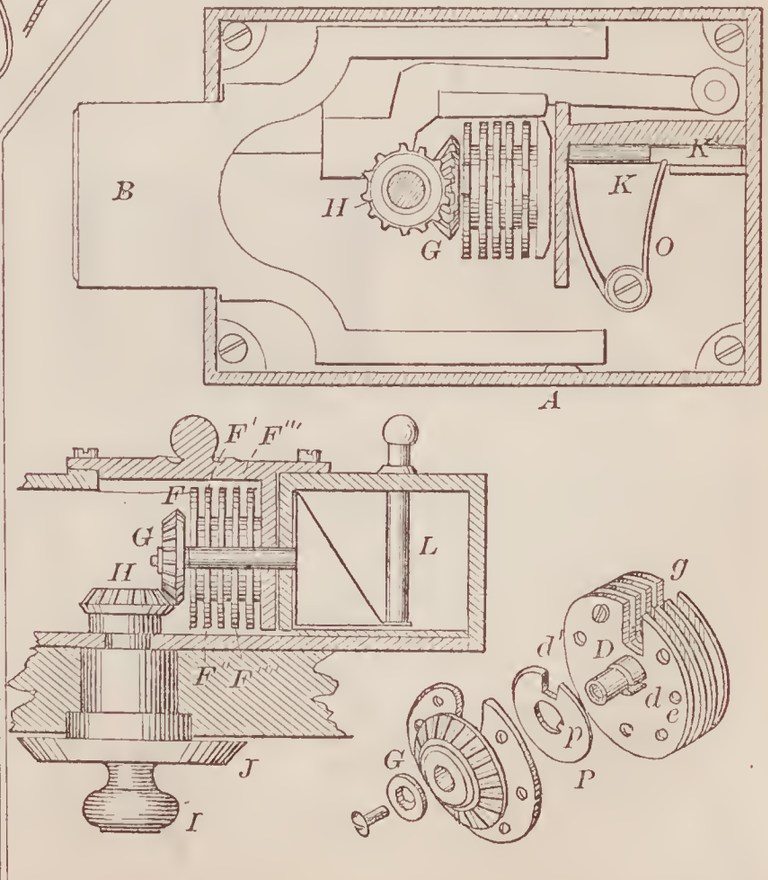
74779—I. M. Wells—*Burglar Alarm*



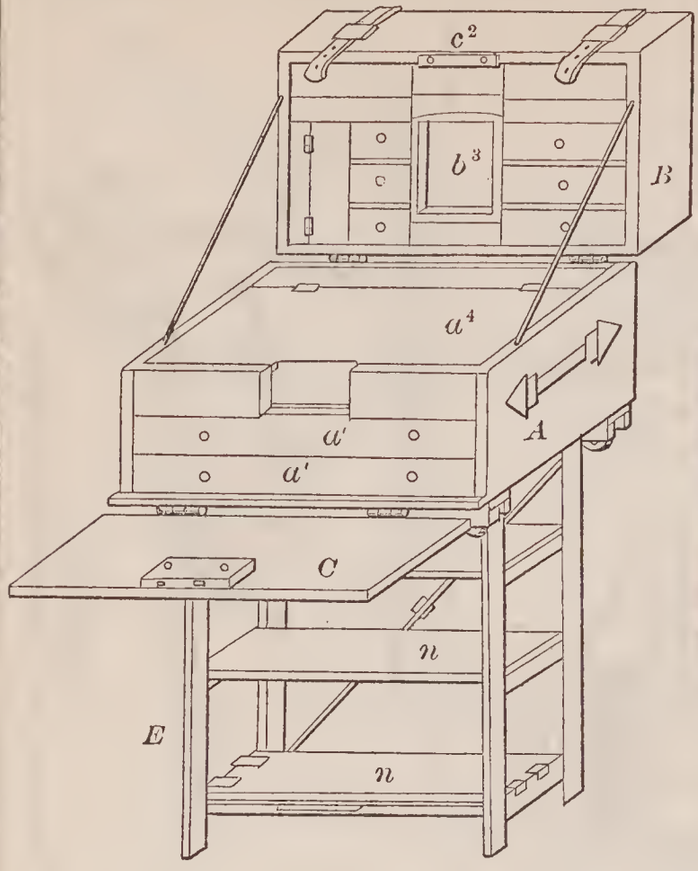
74782—L. H. Whitney—*Fire Lighter.*



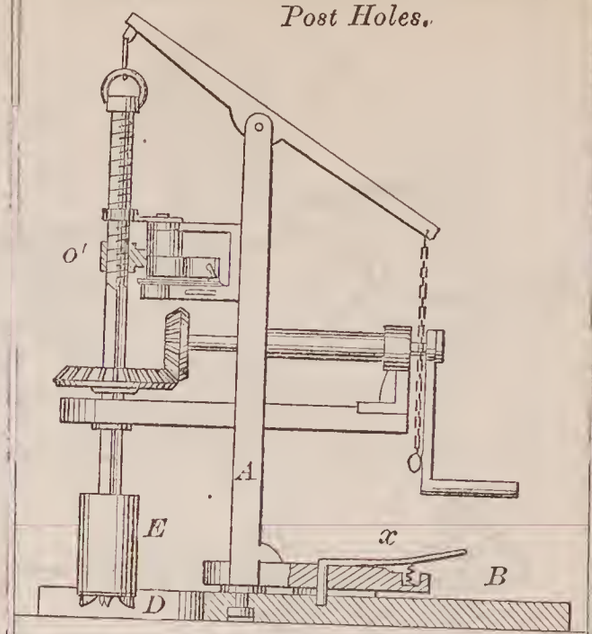
74781—A. Wetzel—*Permutation Lock.*



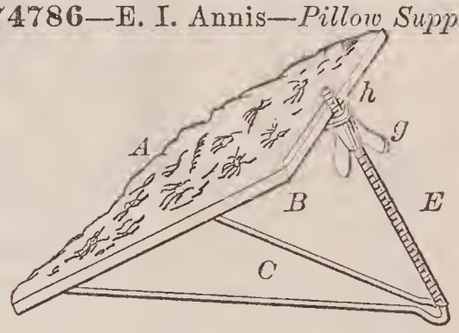
74783—J. N. Wunderlich—*Travelers' Trunk.*



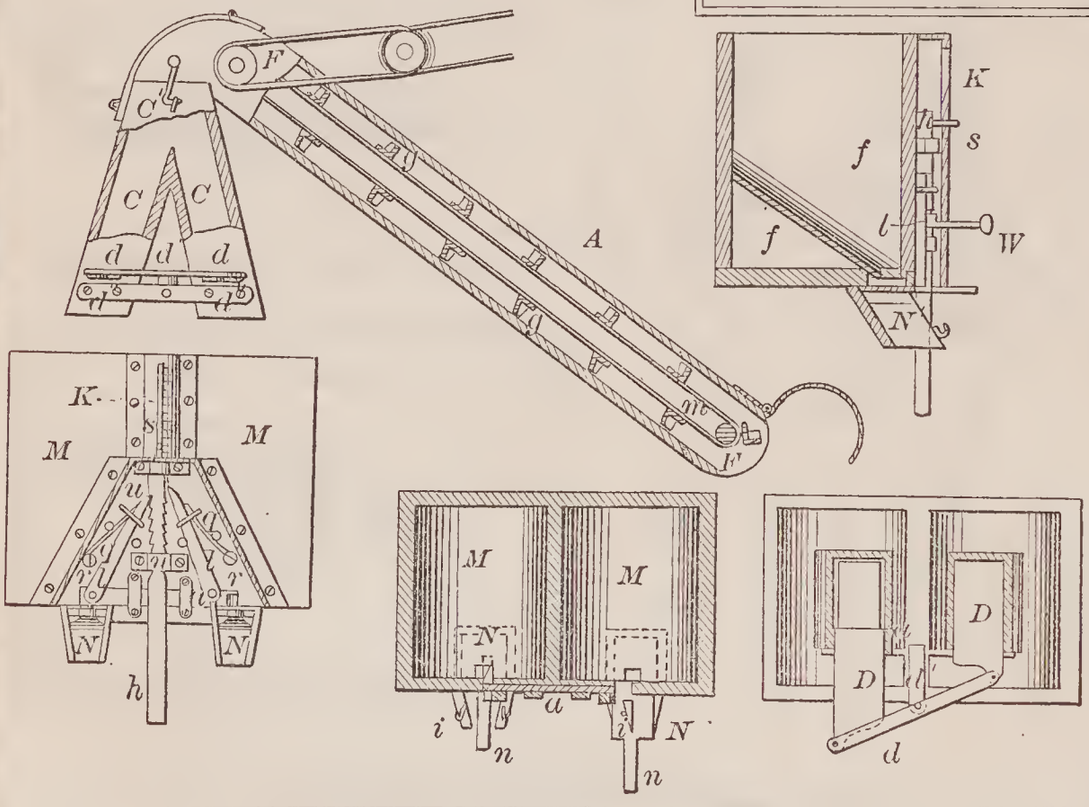
74785—A. Q. Allis—*For Boring Post Holes.*



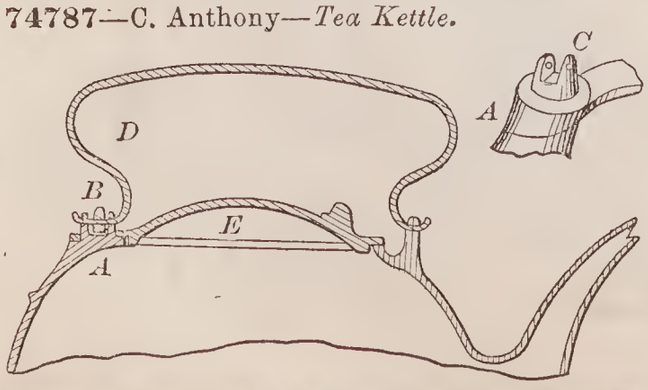
74786—E. I. Annis—*Pillow Support.*



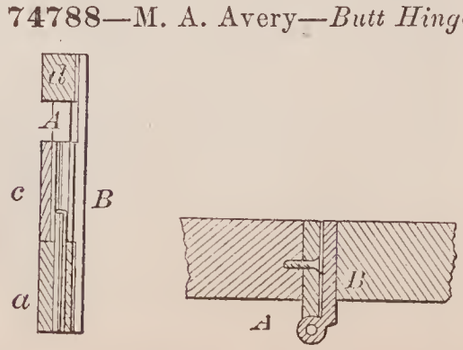
74784—W. F. Abbott—*Measuring Attachment to Threshing Machines.*



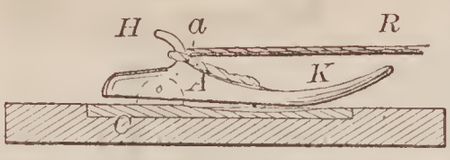
74787—C. Anthony—*Tea Kettle.*



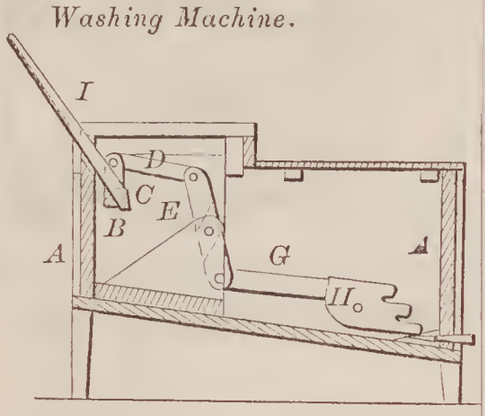
74788—M. A. Avery—*Butt Hinge.*



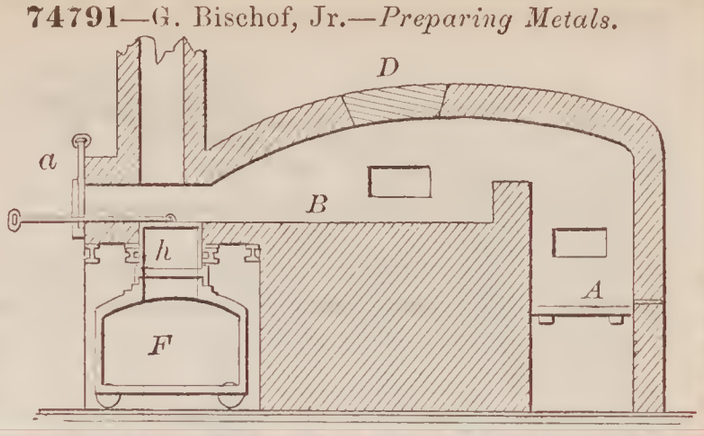
74789—J. Bangs—*Belaying Cleat.*



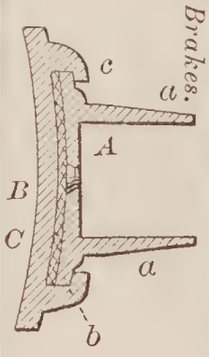
74790—P. F. Bindewald—*Washing Machine.*



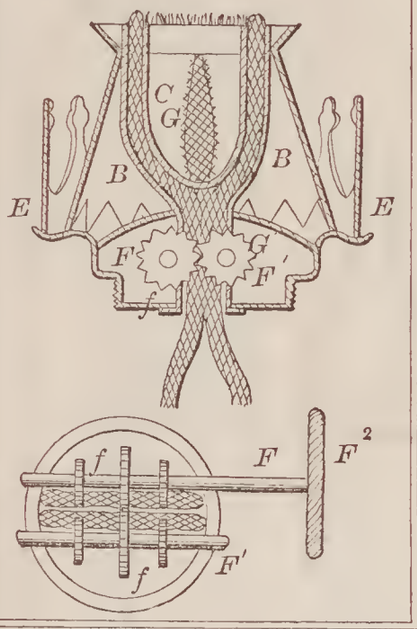
74791—G. Bischof, Jr.—*Preparing Metals.*



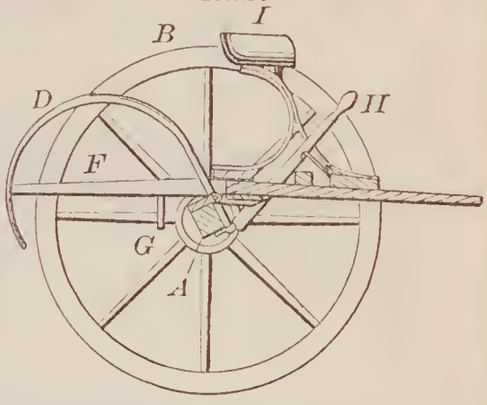
74792—J. Brahn—*Shoe for Car Car Brakes.*



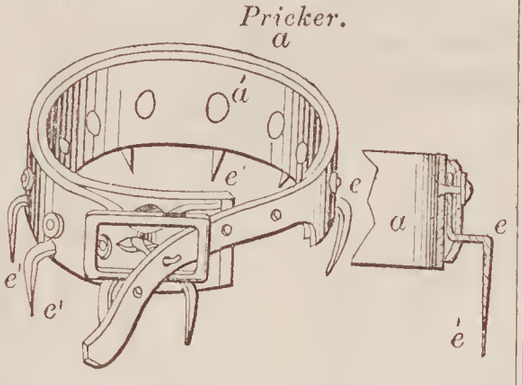
74793—A. W. Browne—*Lamp Burner.*



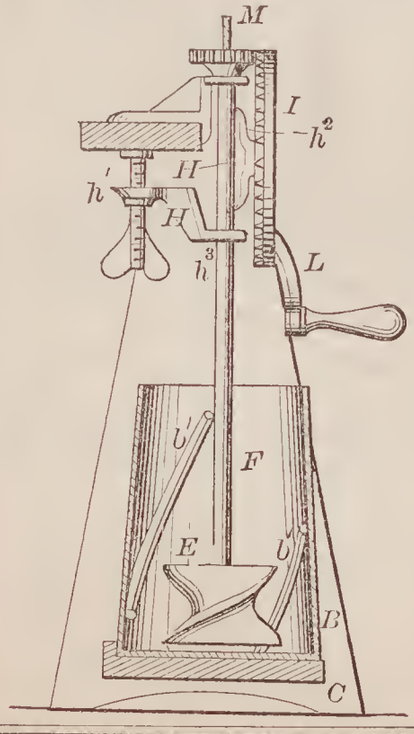
74794—E. W. Bullard—*Horse Rake.*



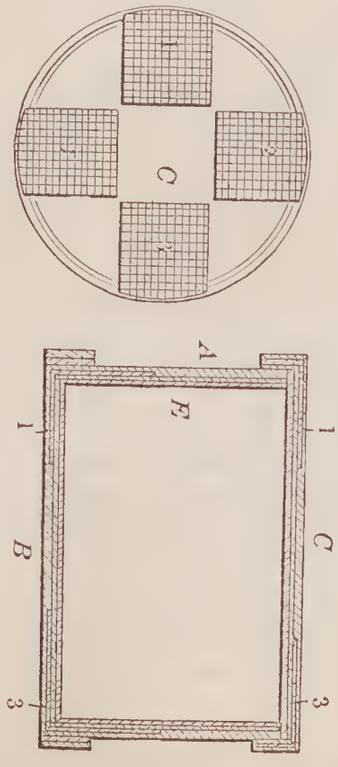
74795—Carson & Peter—*Cattle Pricker.*



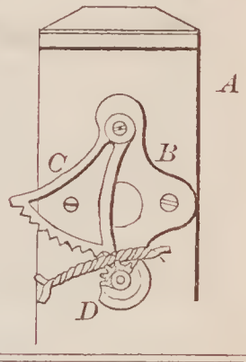
74796—C. H. Carver—*Churn.*



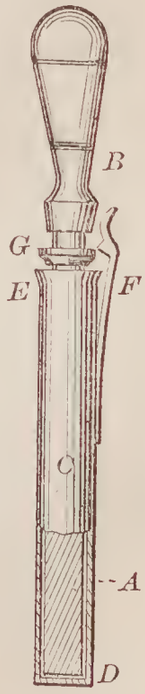
74797—D. M. Cole—*Cheese Box.*



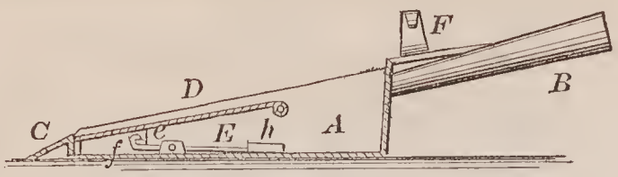
74798—A. Comey—*Clothes Line Holder.*



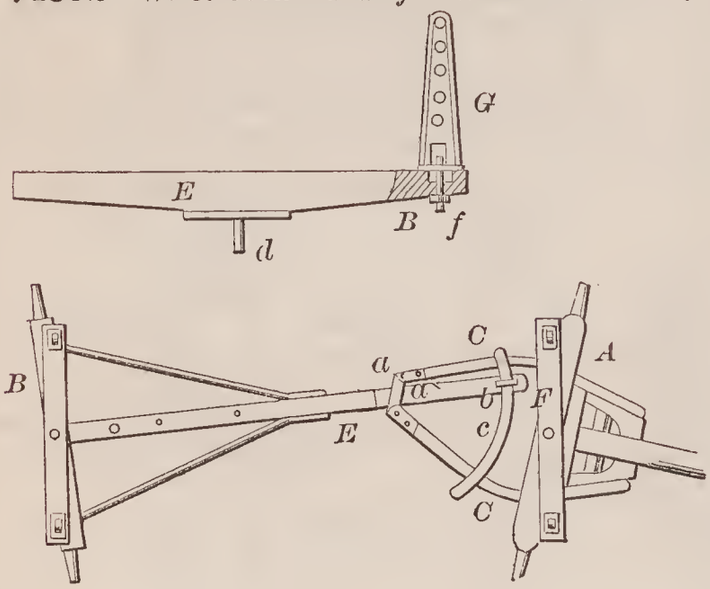
74800—S. E. Condon—*Curling Iron.*



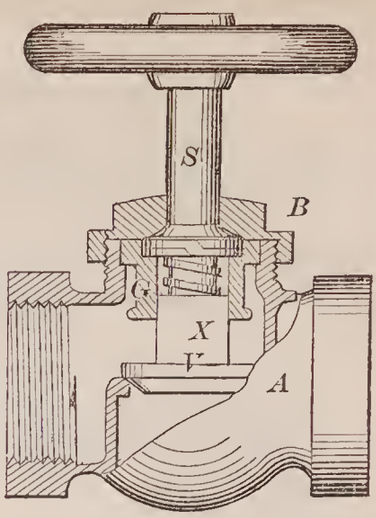
74801—S. E. Condon—*Dust Pan.*



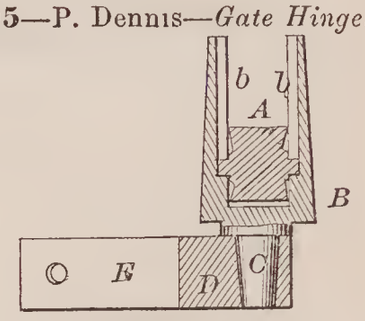
74802—W. C. Cook—*Gear for Wheeled Vehicles.*



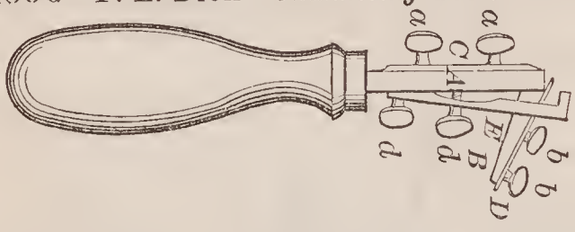
74803—W. S. Cooper—*Globe Valve.*



74805—P. Dennis—*Gate Hinge.*

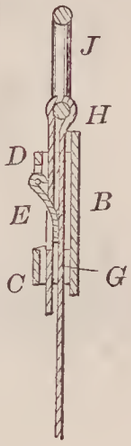


74806—F. E. Droll—*Channeling Tool.*

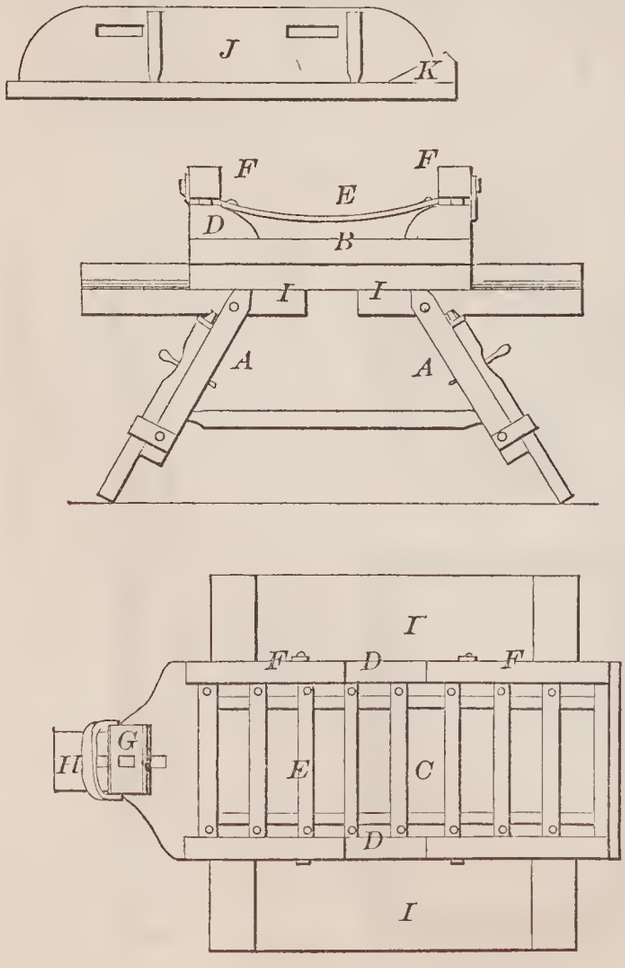


74804—E. M. Davis—*Securing Labels on Glassware.*

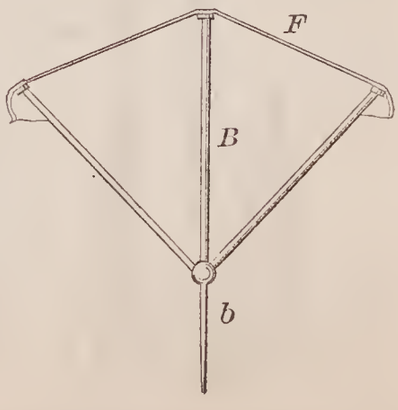
74807—S. W. Durham—*Strap Fastener.*



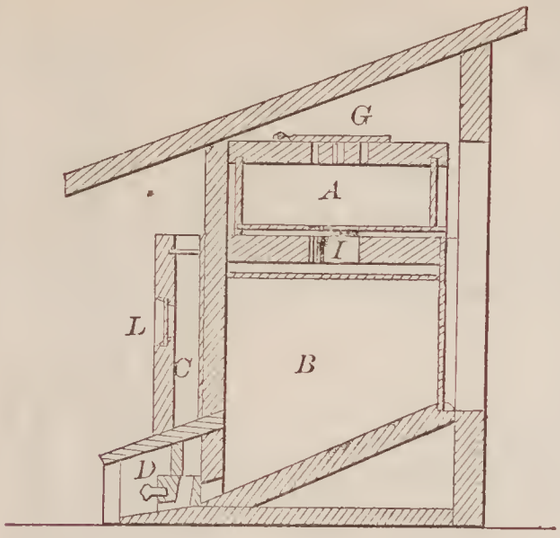
74808—G. Fenton—*Sheep Shearing Table.*



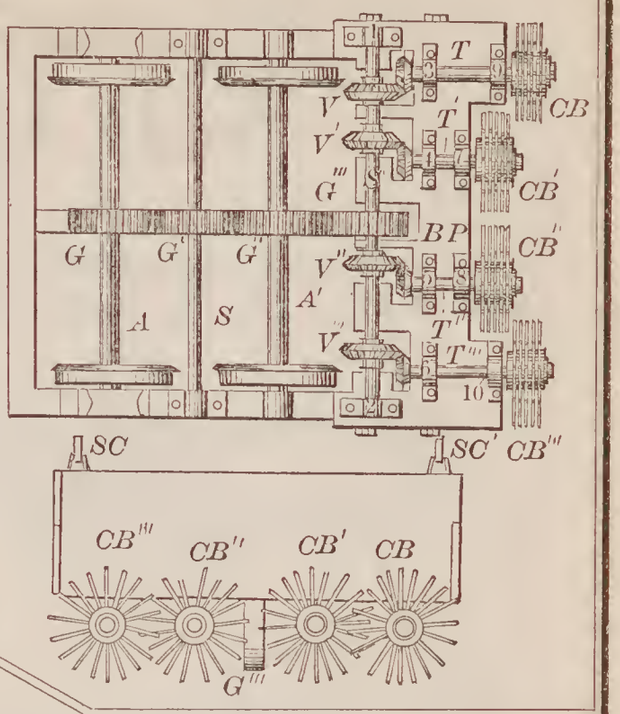
74809—J. H. Flagg—*Carriage Top Frame.*



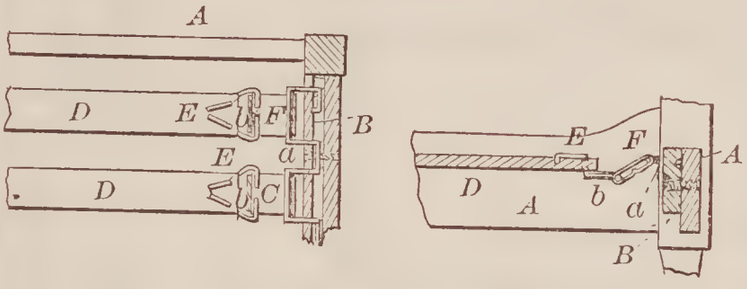
74810—M. D. Fogel—*Beehive.*



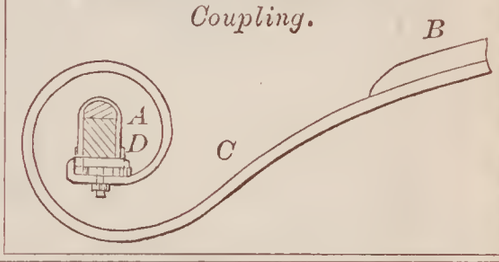
74811—Freeman & Ford—*Track Cleaner.*



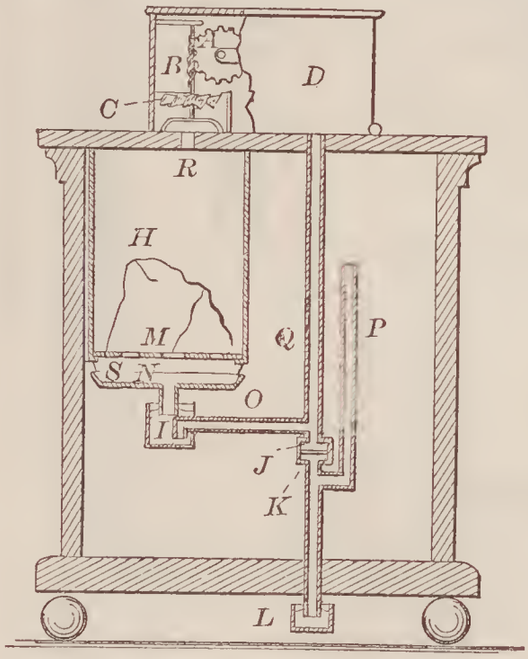
74812—J. C. Fry—*Bed Bottom.*



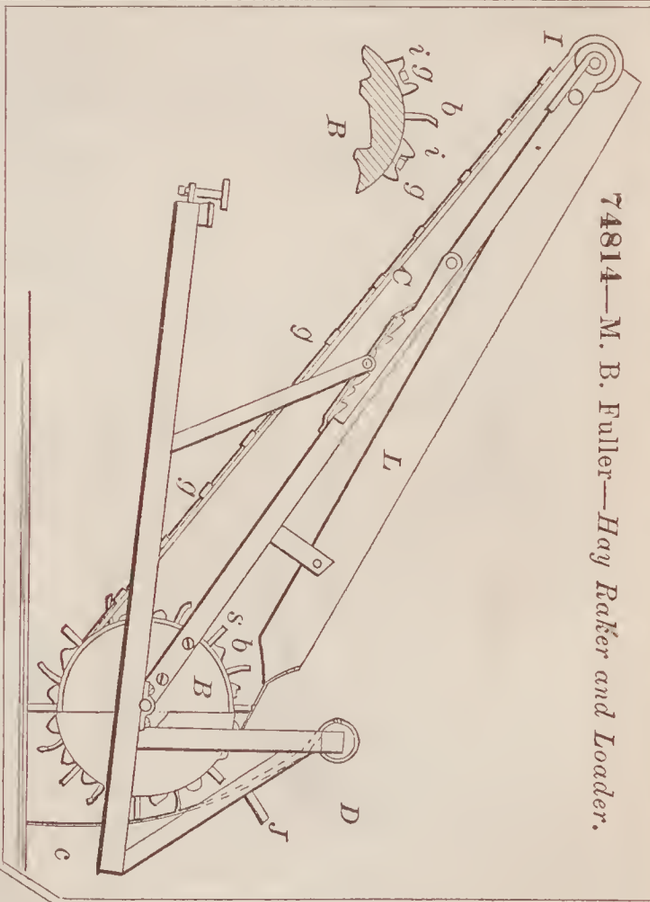
74816—K. Goddard—*Thill Coupling.*



74813—Fuller & Reichert—*Refrigerator.*

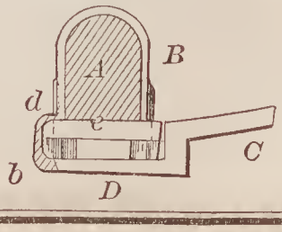


74814—M. B. Fuller—*Hay Raker and Loader.*

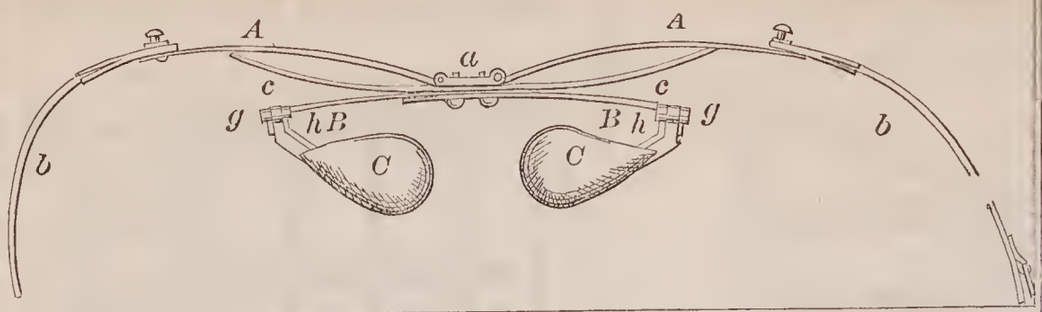


74815—A. C. Funston—*Toy.*

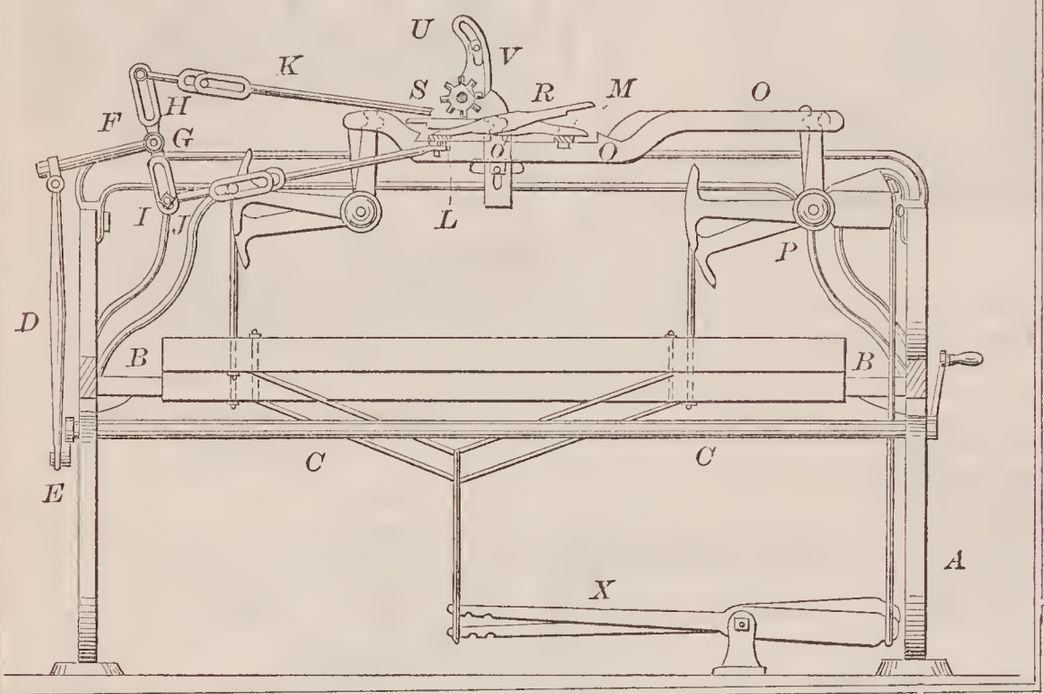
74817—K. Goddard—*Thill Coupling.*



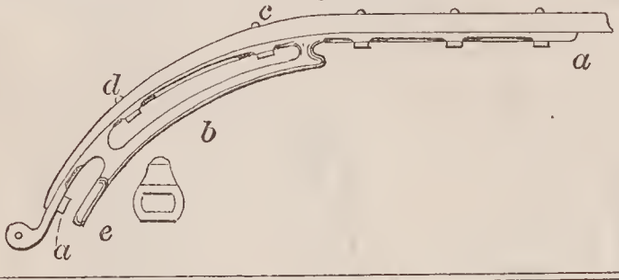
74818—S. Green—*Truss.*



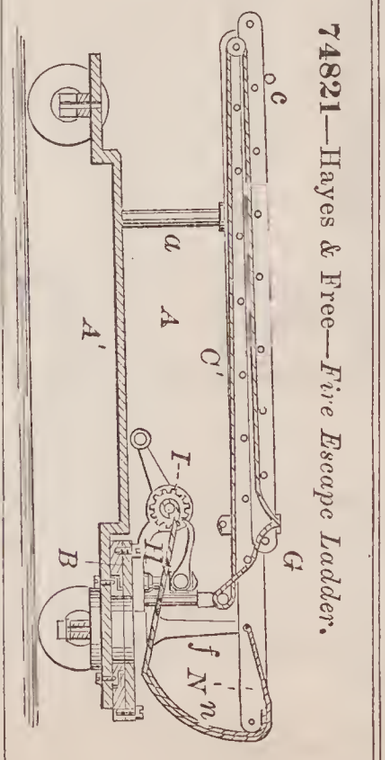
74819—J. Greenhalgh—*Harness Mechanism for Looms.*



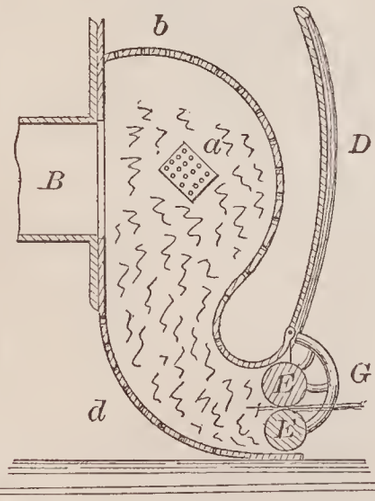
74820—S. B. Harmon—*Carriage Thill.*



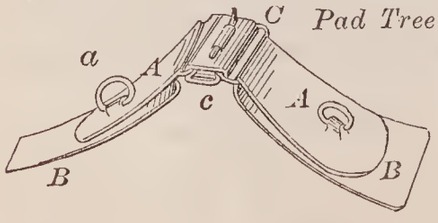
74821—Hayes & Free—*Fire Escape Ladder.*



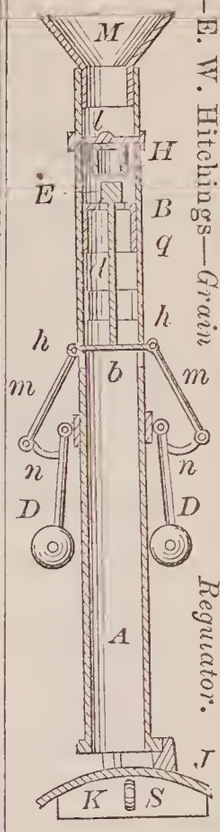
74822—R. H. Hilton—*For Cleaning Cotton.*



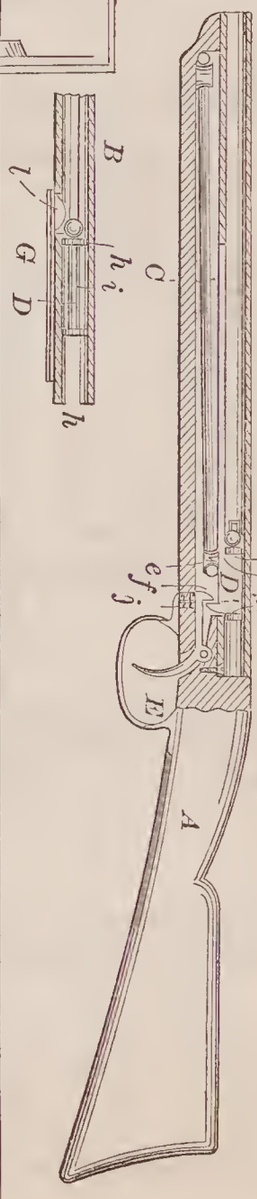
74823—J. W. Hinman—*Harness Pad Tree.*



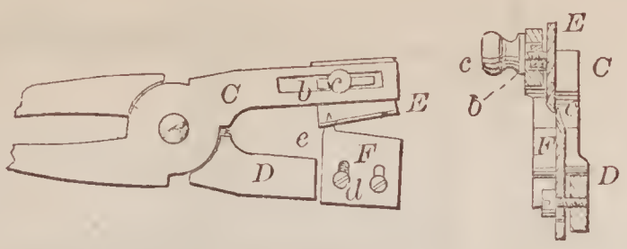
74824—E. W. Hitchings—*Grain Regulator.*



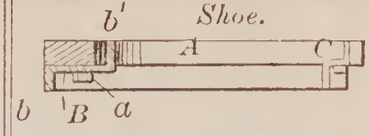
74825—S. Hubbard—*Toy Gun.*



74827—A. Humann—*Button Hole Cutter.*



74829—J. Jorey—*Horse Shoe.*



74828—Jefferies & Olds—*Truss.*

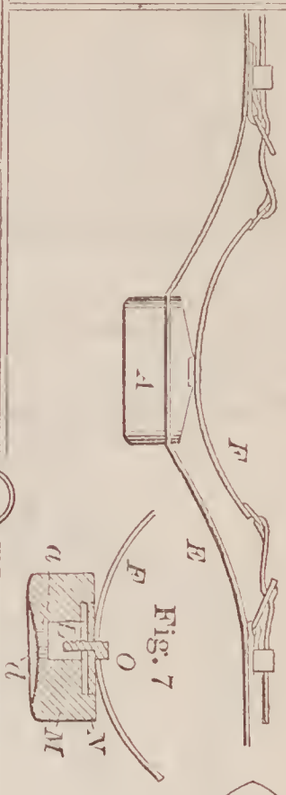


Fig. 7

Fig. 8

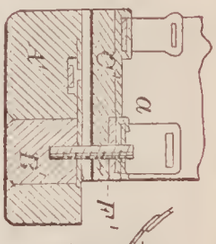
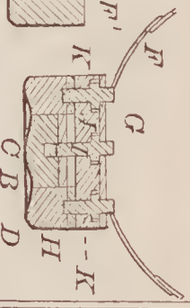
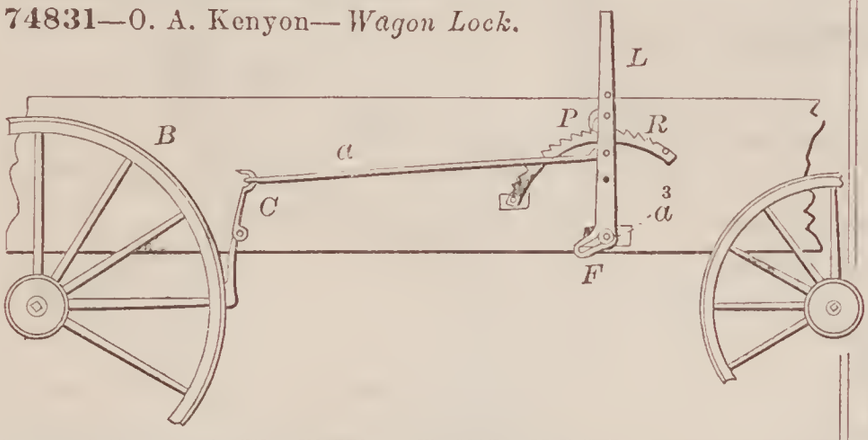


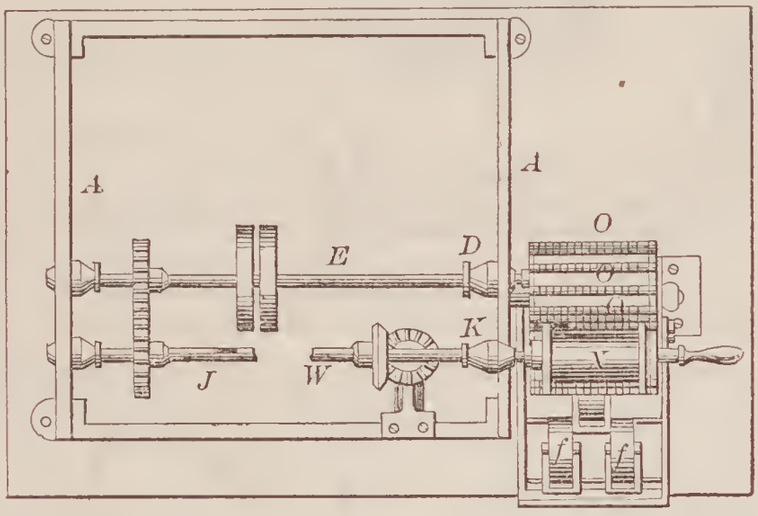
Fig 9



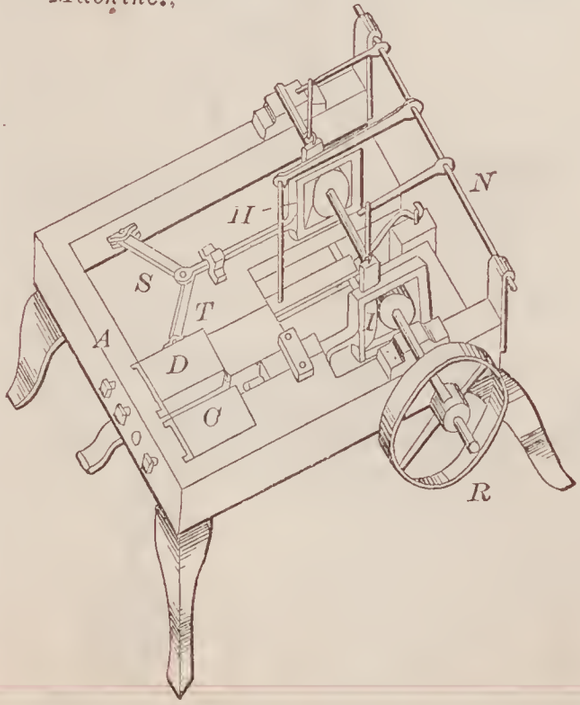
74831—O. A. Kenyon—*Wagon Lock.*



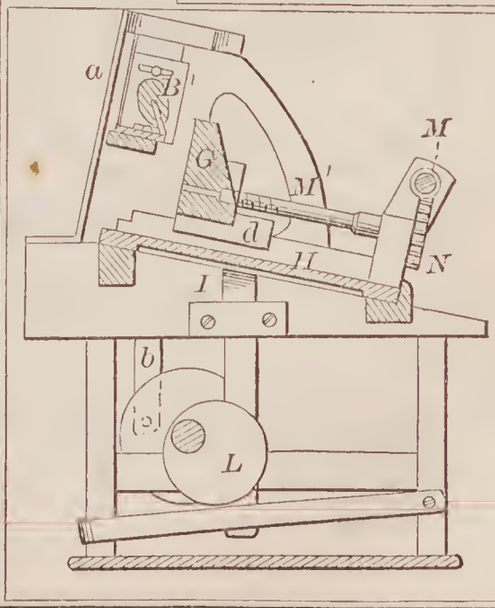
74832—P. Kerr—*For Polishing Thread.*



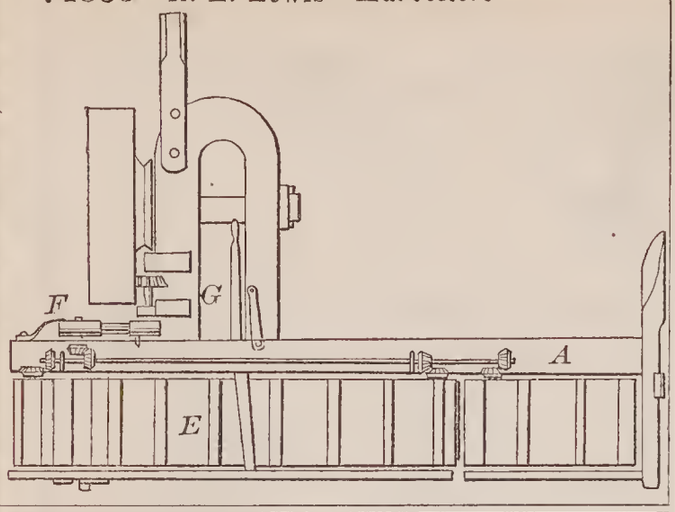
74834—Klemm & Dittrich—*Bolt Making Machine.*



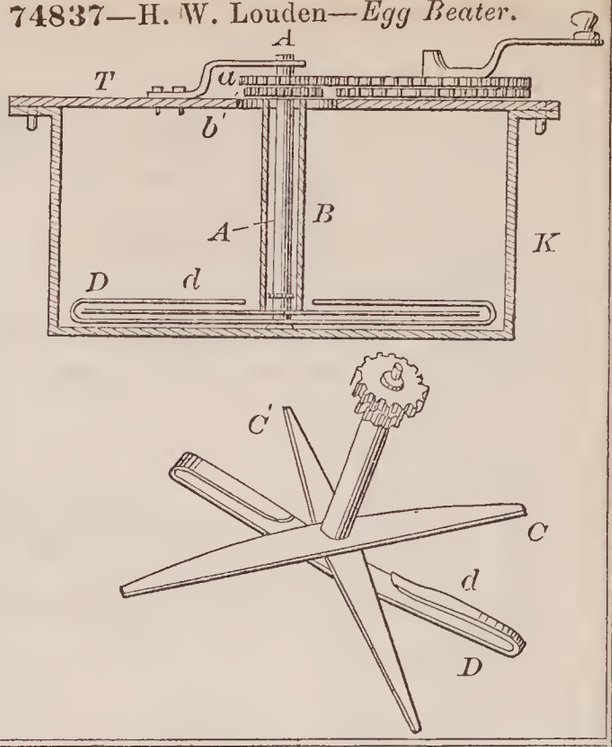
74830—H. Kassing—*For Cutting Veneers.*



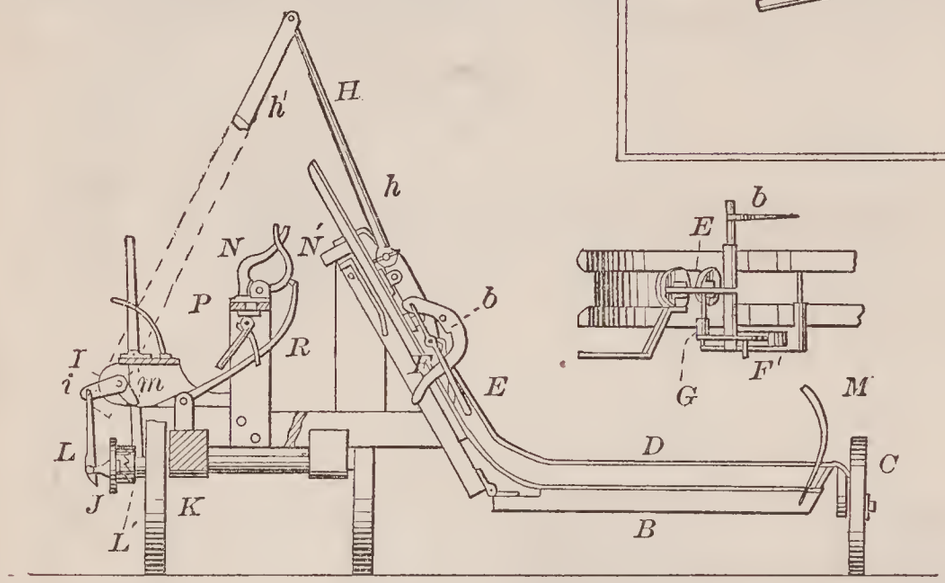
74835—E. E. Lewis—*Harvester.*



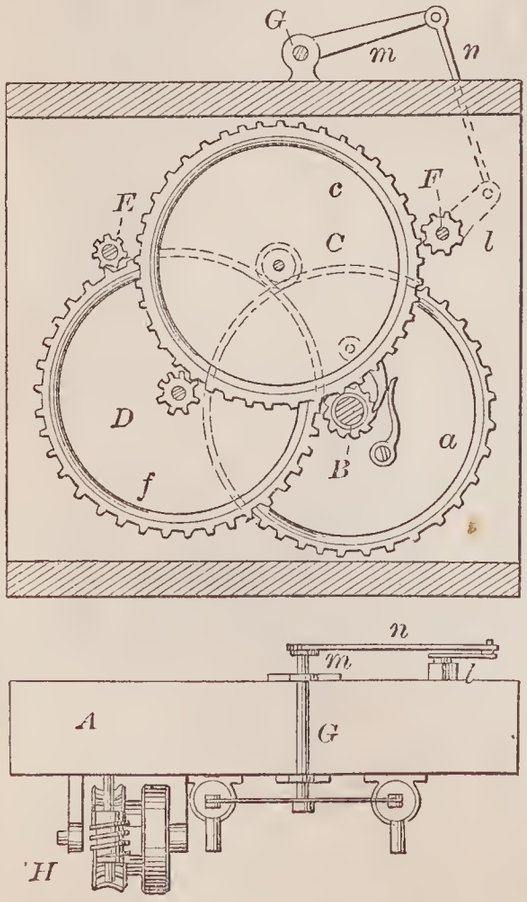
74837—H. W. Louden—*Egg Beater.*



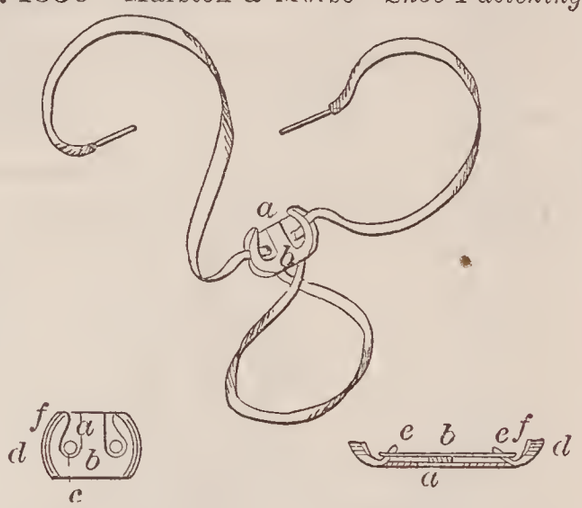
74836—C. Lidren—*Harvester Rake.*



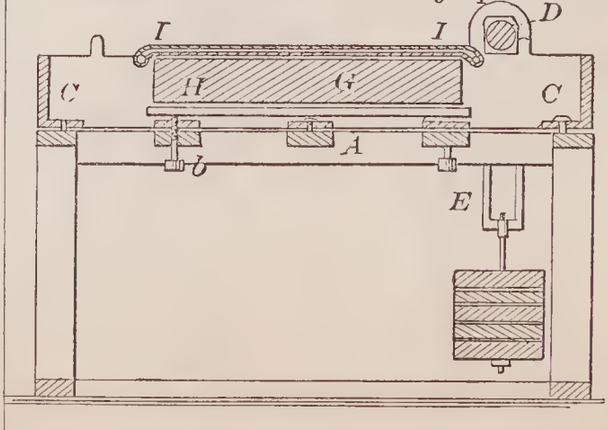
74838—G. Maranville—*For Operating Stationary Machinery.*



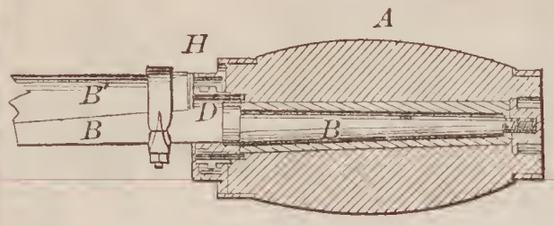
74839—Marston & Morse—*Shoe Fastening.*



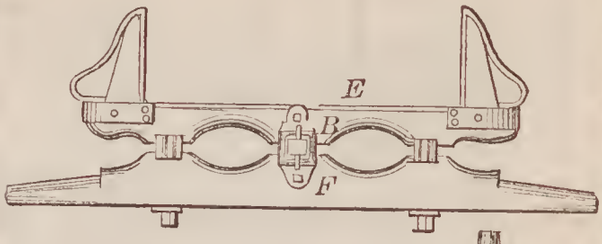
74840—C. Maurice—*Lithographic Press*



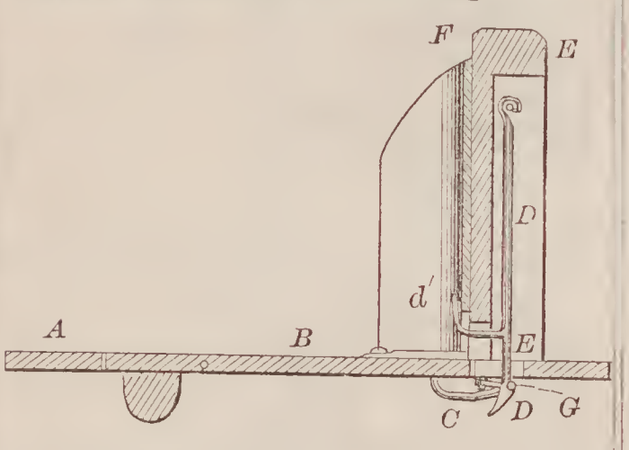
74841—N. Maxham—*Hub and Axle.*

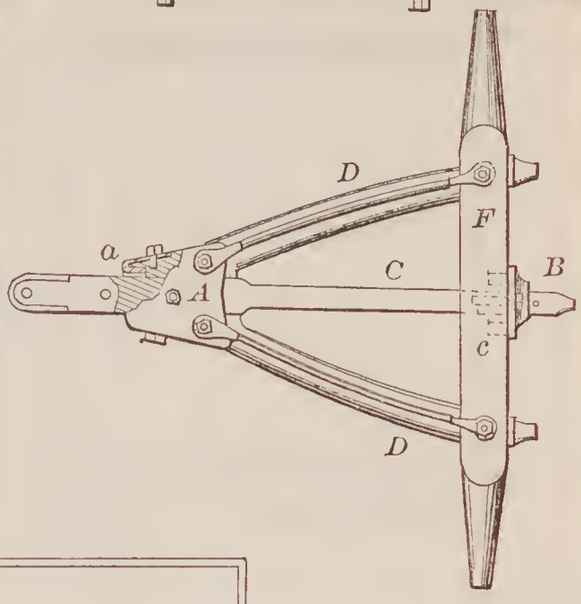


74843—H. Mitchell—*Wagon Coupling.*

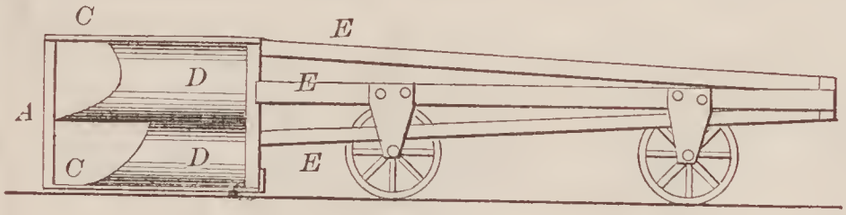


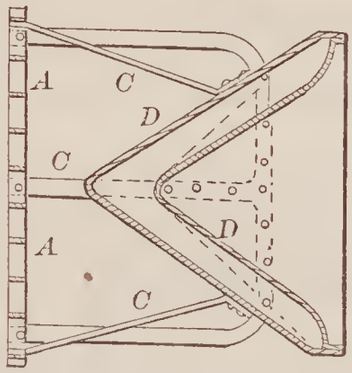
74842—W. Miller—*Animal Trap.*

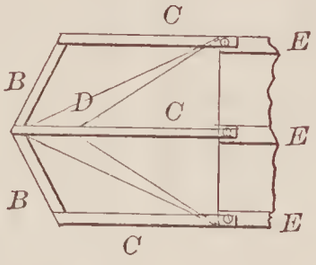




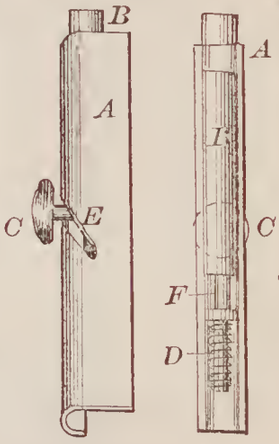
74844—G. Place—*Snow Plow.*



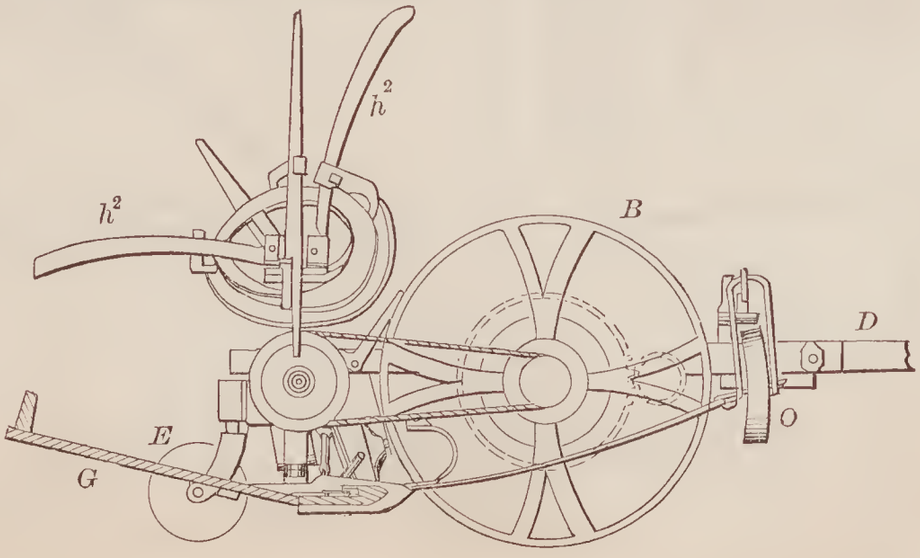




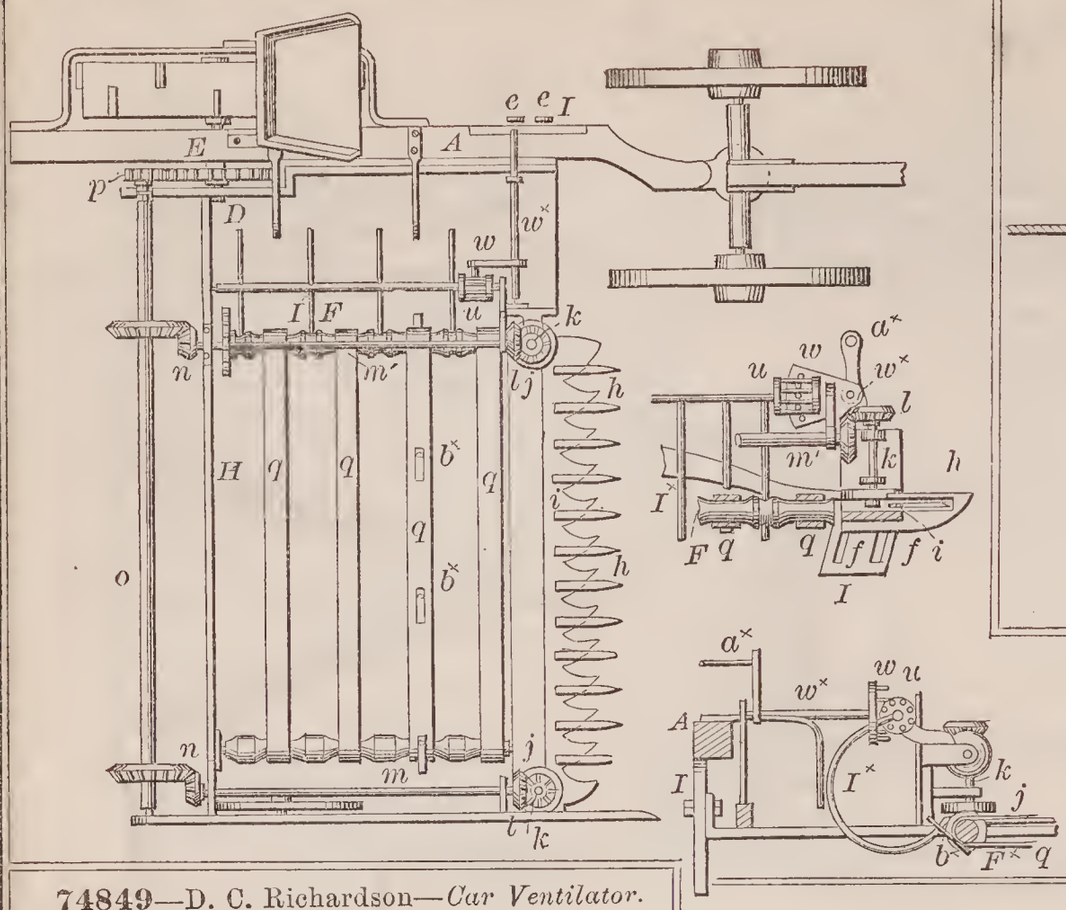
74846—T. Rattenbury—*Bolt.*



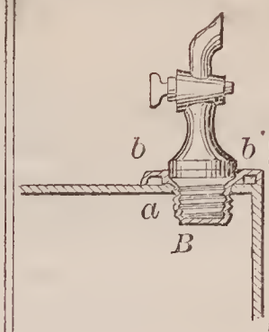
74845—Quick, Opie & Farrand—*Harvester Rake.*



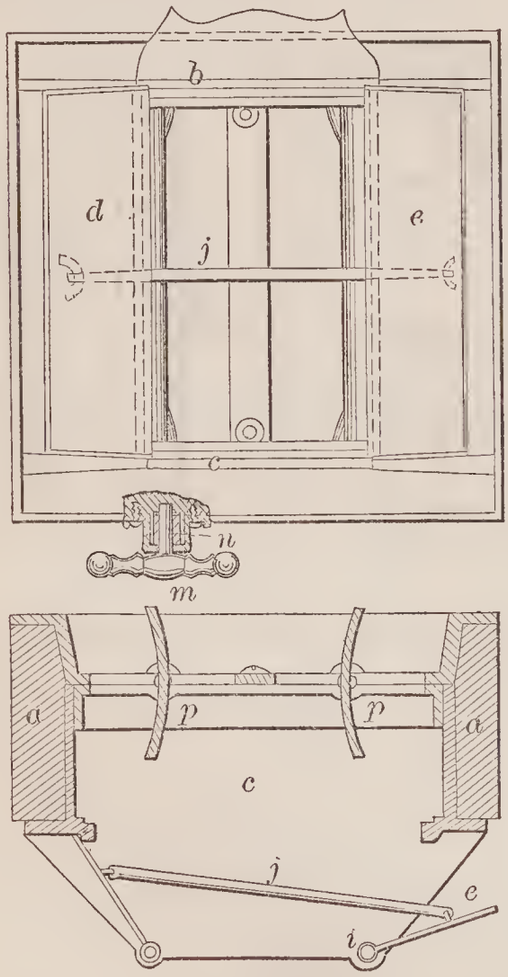
74847—Redfield & Cox—*Harvester.*



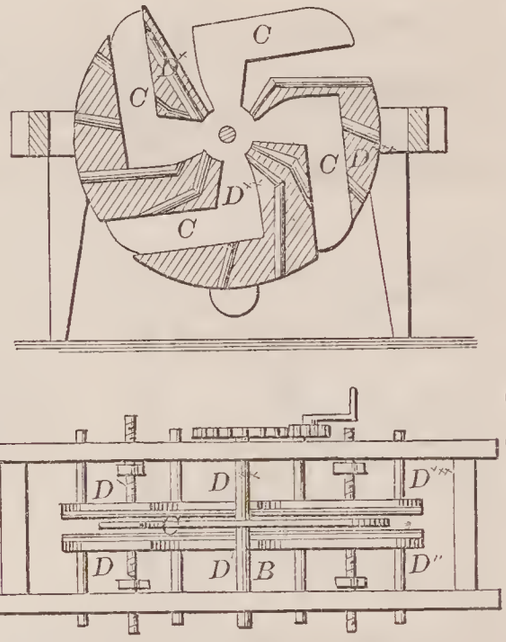
74850—W. Rigg—*Screw Cap for Oil Cans.*



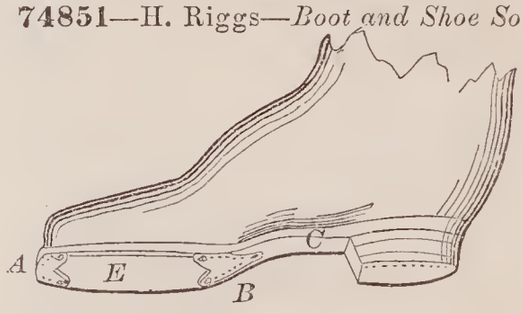
74849—D. C. Richardson—*Car Ventilator.*



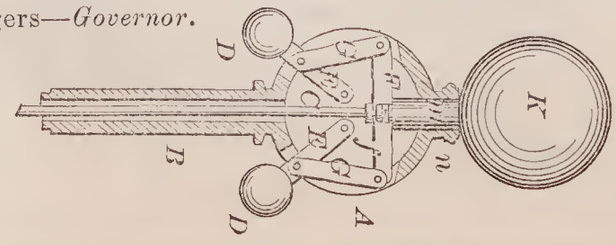
74848—C. H. Rice—*Boot Crimping Machine.*



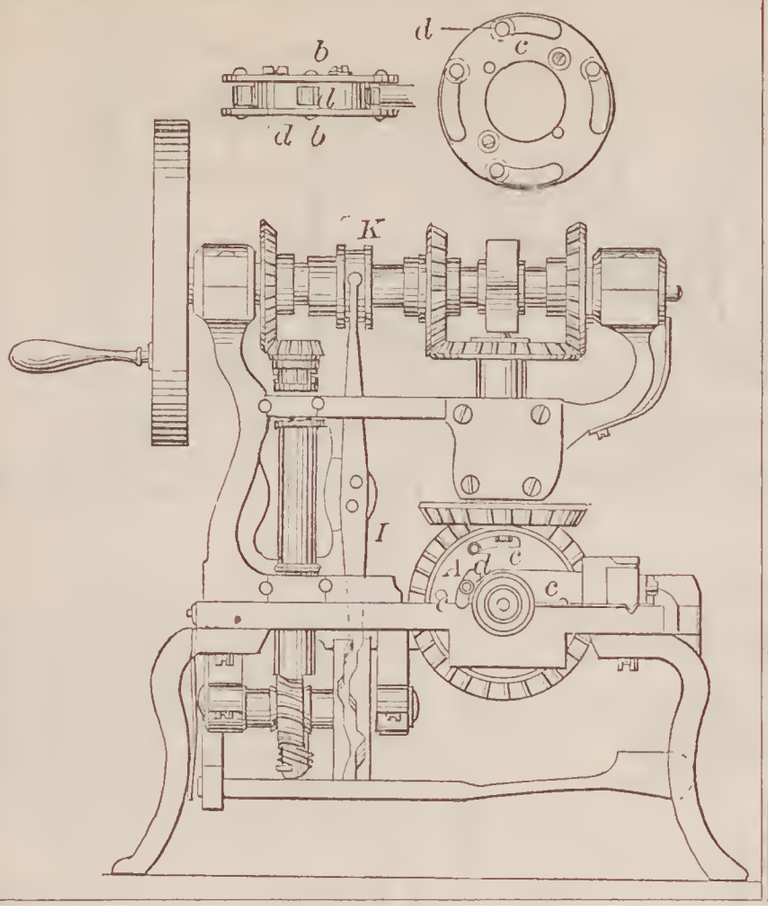
74851—H. Riggs—*Boot and Shoe Sole.*



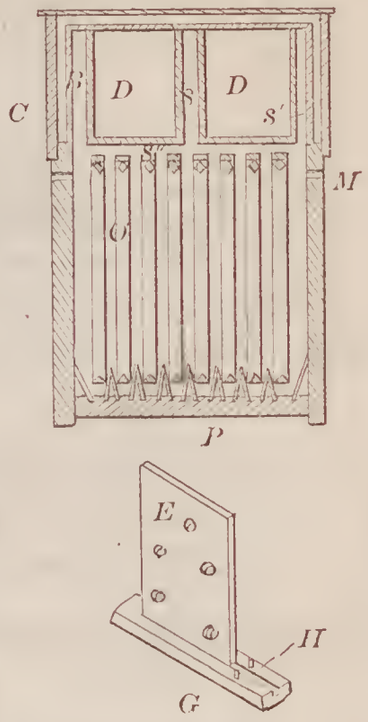
74852—E. P. Rogers—*Governor.*



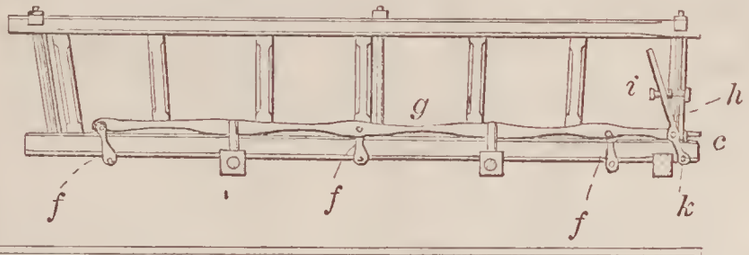
74853—J. Russell—*Card Setting Machine.*

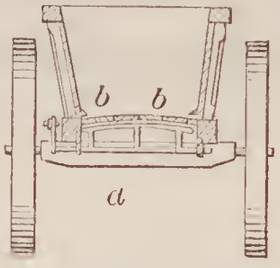


74854—P. J. Severson—*Beehive.*

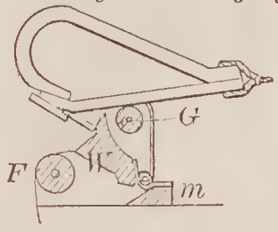


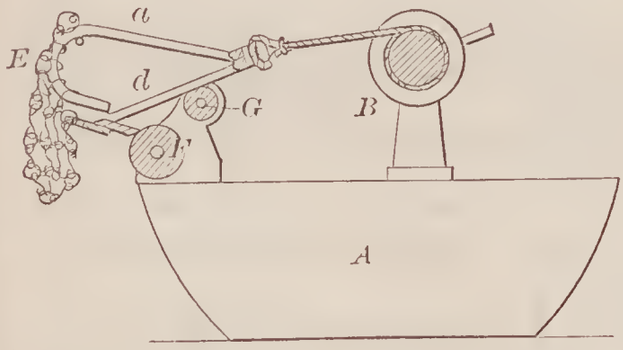
74856—H. Shirey—*Dumping Wagon.*



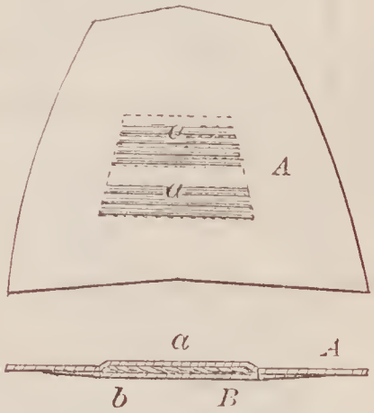


74857—T. P. Sink—*Oyster Dredging Machinery.*

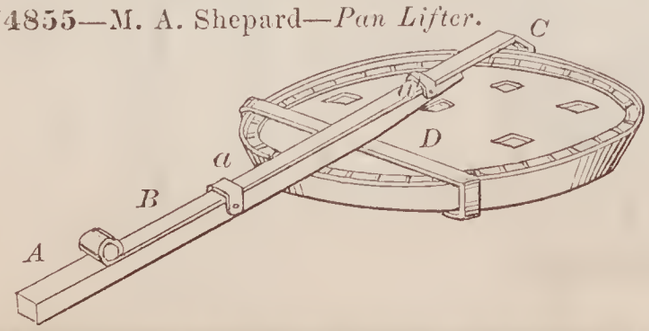




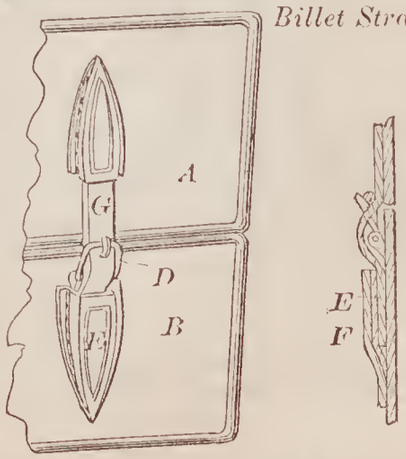
74858—G. & G. Smith—*Boots and Shoes.*



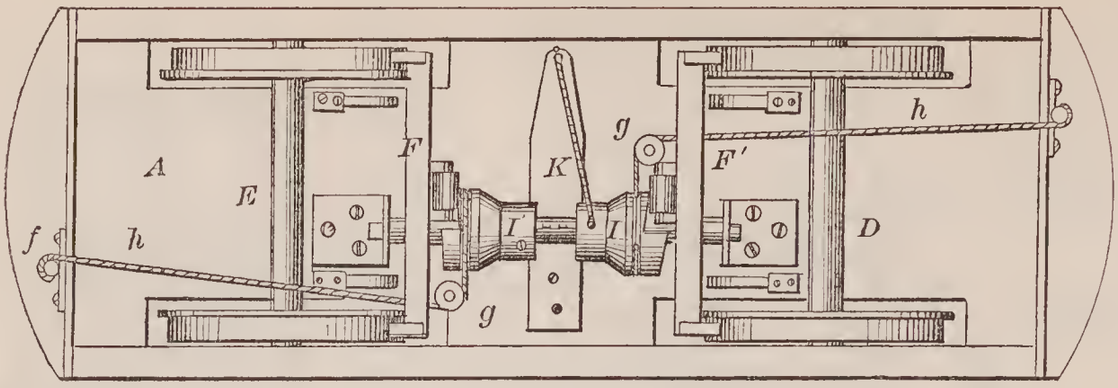
74855—M. A. Shepard—*Pan Lifter.*



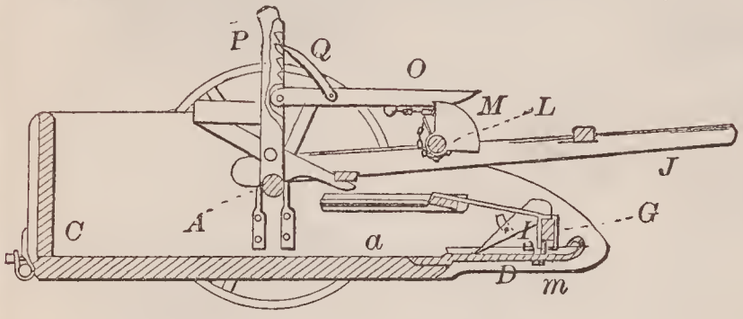
74859—H. H. Smith—*Pocket for Billet Straps*

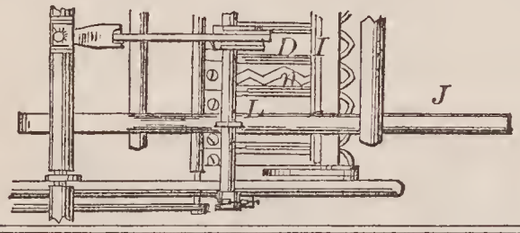


74860—Smith & Steger—*Car Brake.*

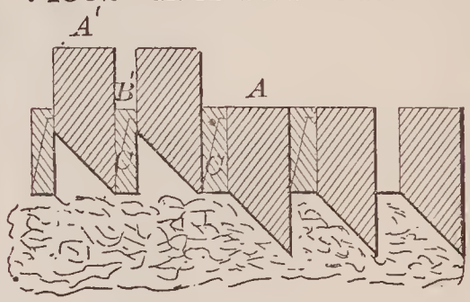


74861—Stockstill & Scarff—*Clover Harvester.*

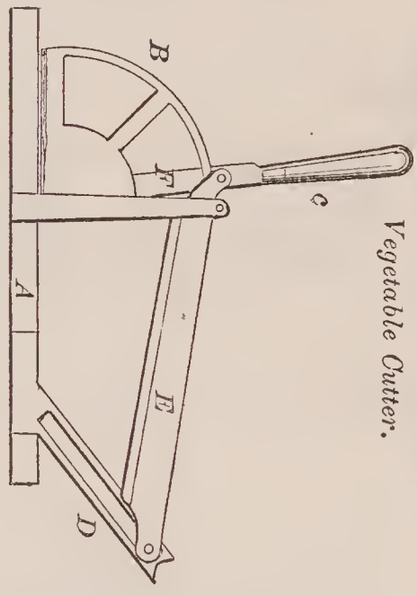




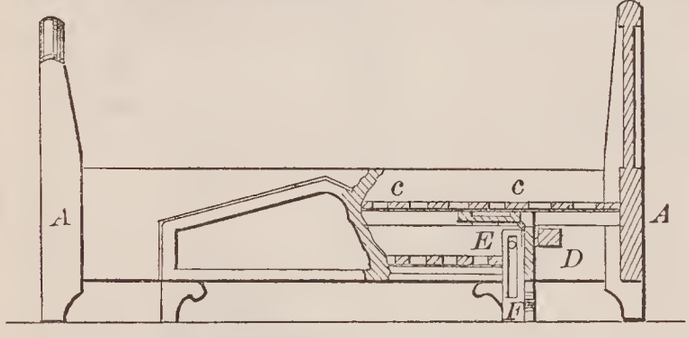
74862—H. M Stow—*Pavement.*



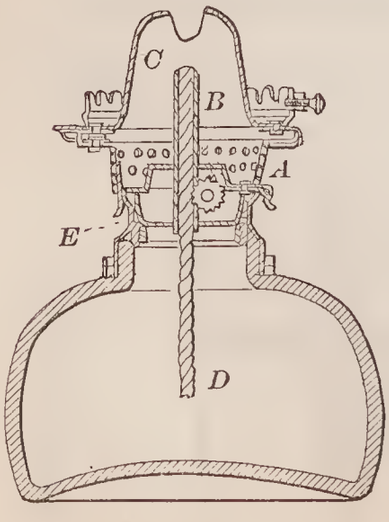
74864—H. A. Titus—*Bread and Vegetable Cutter.*



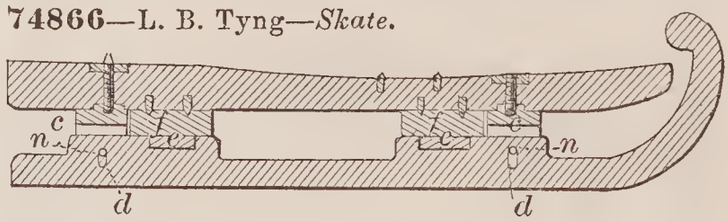
74865—H. R. Tracy—*Bedstead Crib Attachment.*

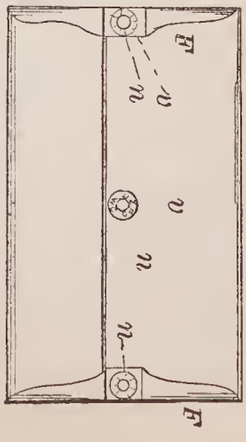


74863—A. Taplin—*Lamp*

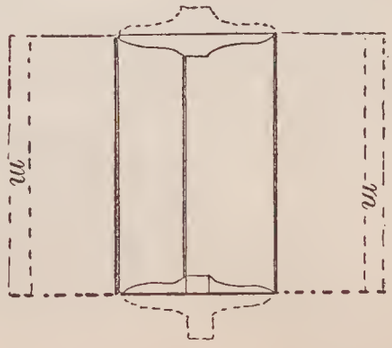


74866—L. B. Tyng—*Skate.*

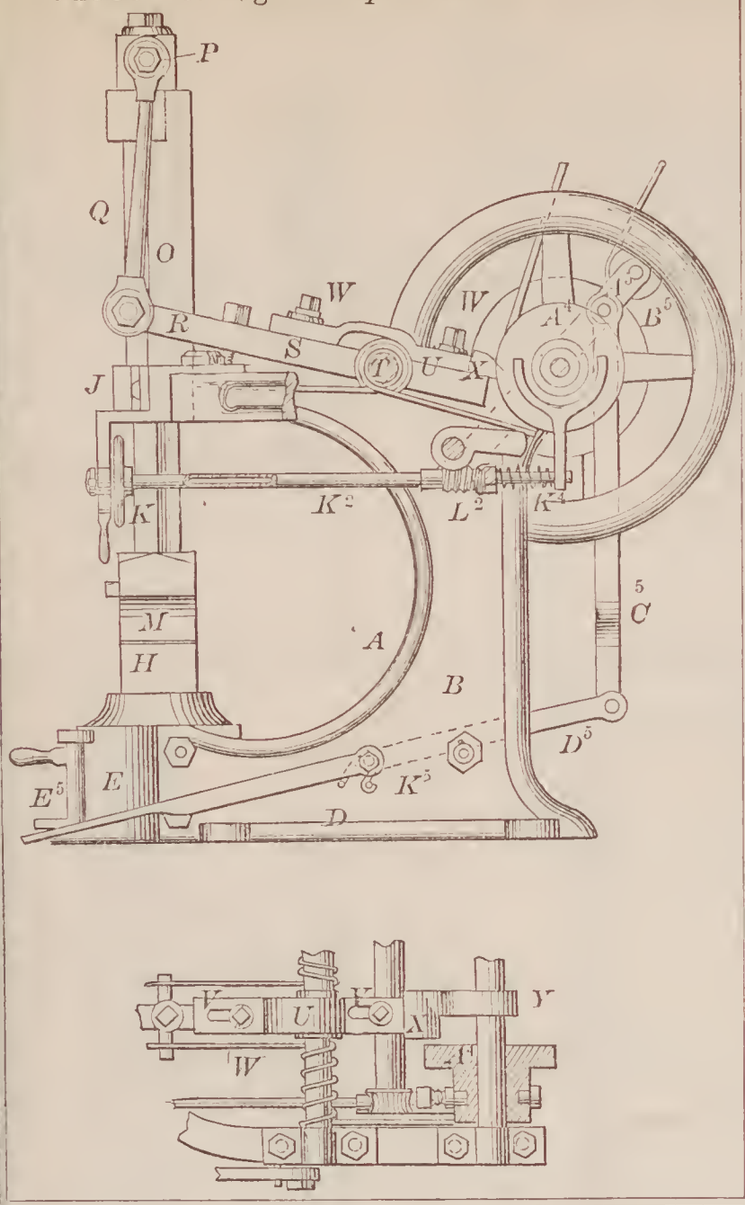




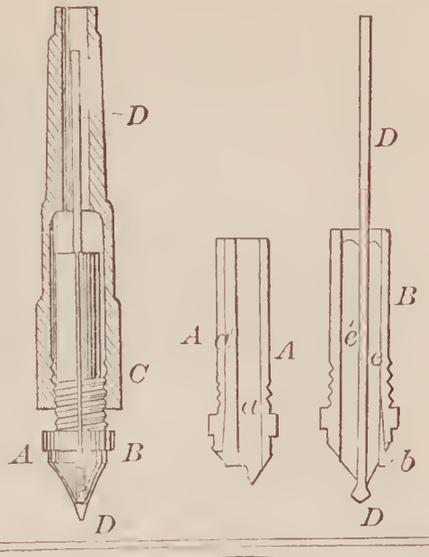
74867—S. Ullman—*Envelope.*



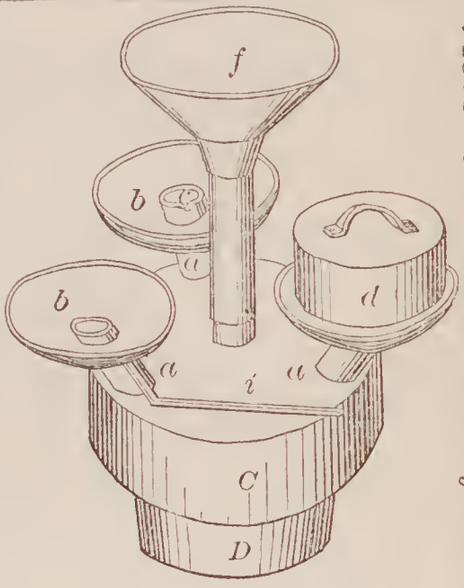
74868—C. Vogel—*Trip Hammer.*

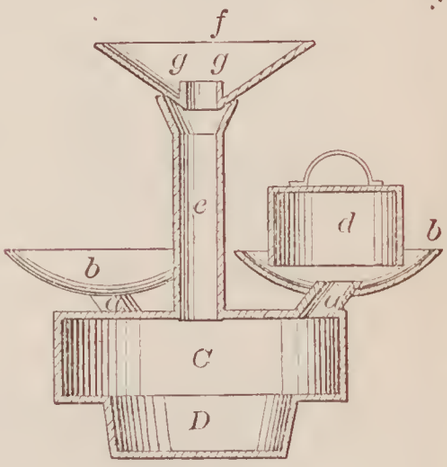


74870—P. A. Whitney—*Drill and Counter Sink.*

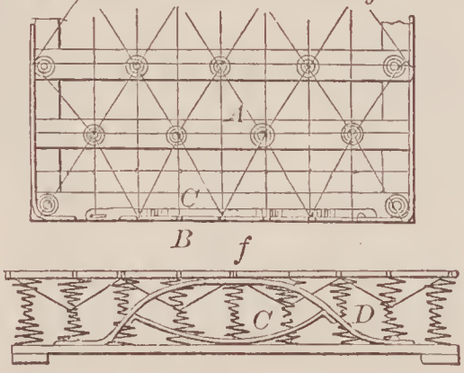


74873—G. W. Worster—*Culinary Steamer.*



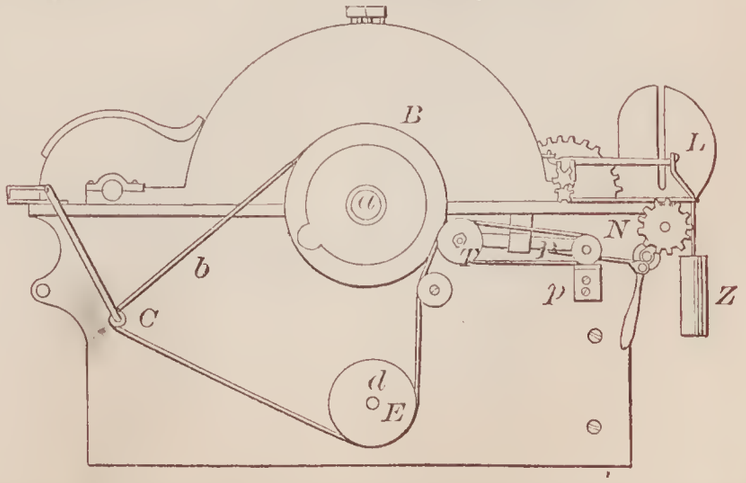


74872—Worden & Wilms—*Spring Bed Bottom.*

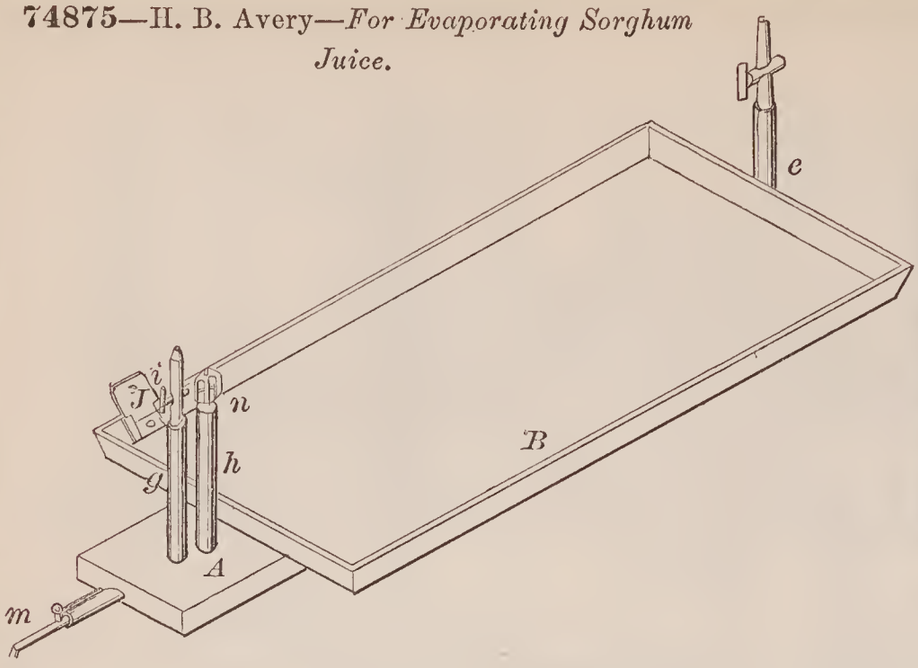


74869—E. Wattis, Sr.—*Pepper Caster Bottle.*

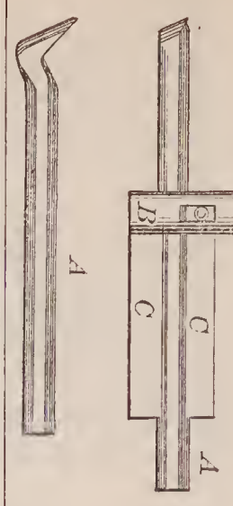
74873—G. W. Worster—*Culinary Steamer.*



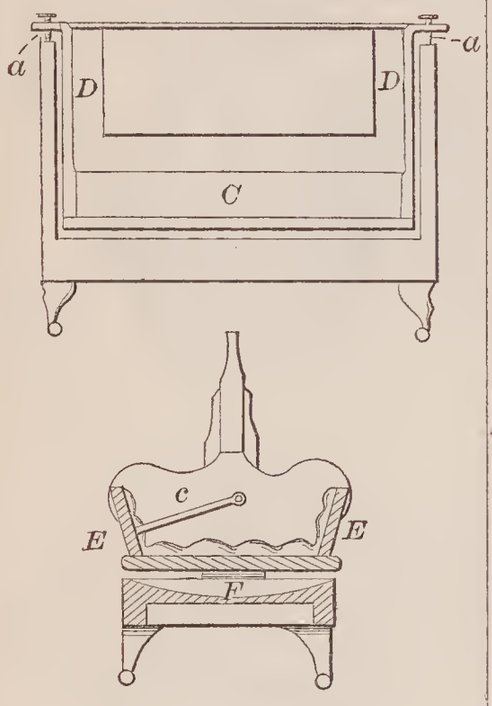
74875—H. B. Avery—*For Evaporating Sorghum Juice.*



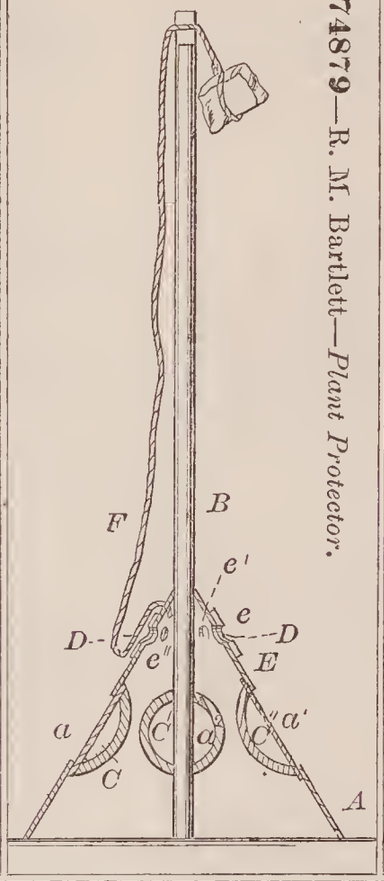
74877—J. Baillie—*Lathe Tool Holder.*



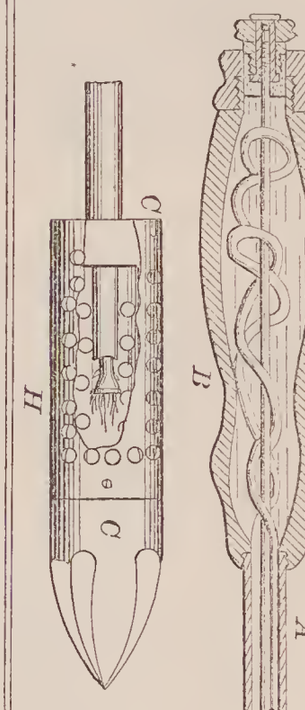
74876—H. A. Axtell—*Sofa Cradle.*



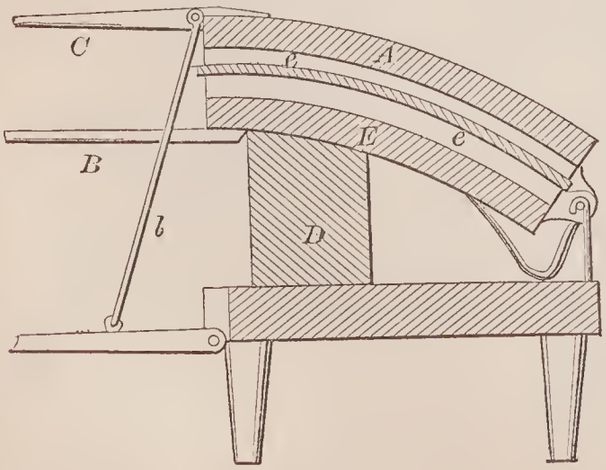
74879—R. M. Bartlett—*Plant Protector.*



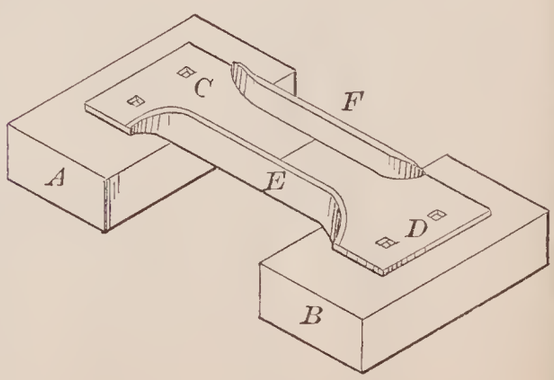
74881—T. Beardsley—*Soldering Iron.*



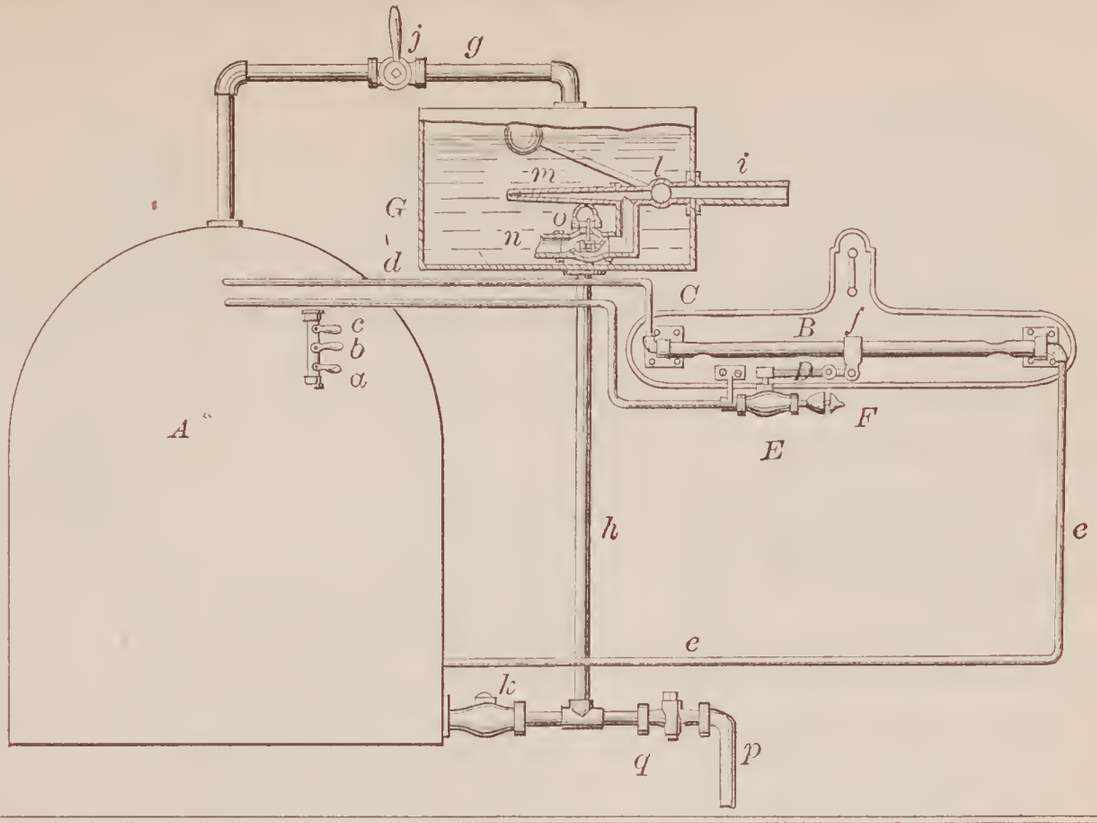
74880—J. W. Bean—*For Bending Metallic Plates.*



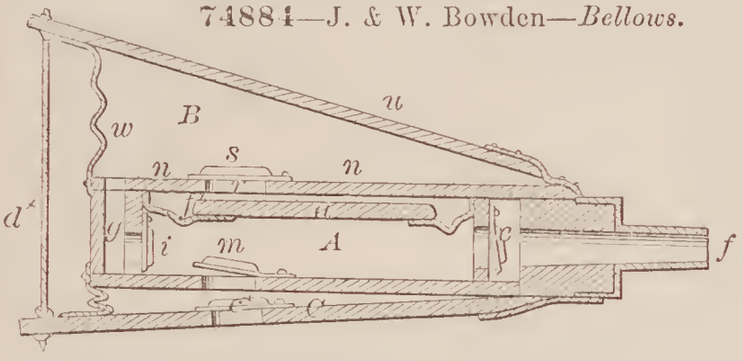
74882—L. B. Bidwell—*Railroad Chair.*



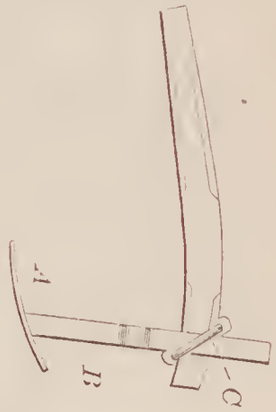
74883—J. N. B. Bond—*Boiler Feed Low Water Detector.*



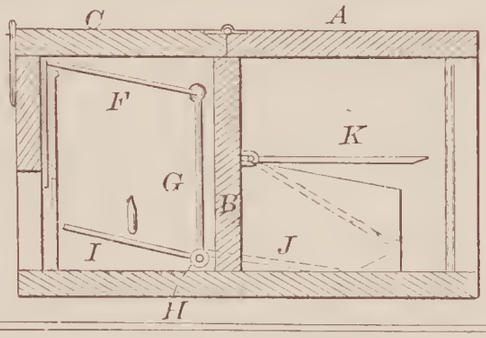
74884—J. & W. Bowden—*Bellows.*



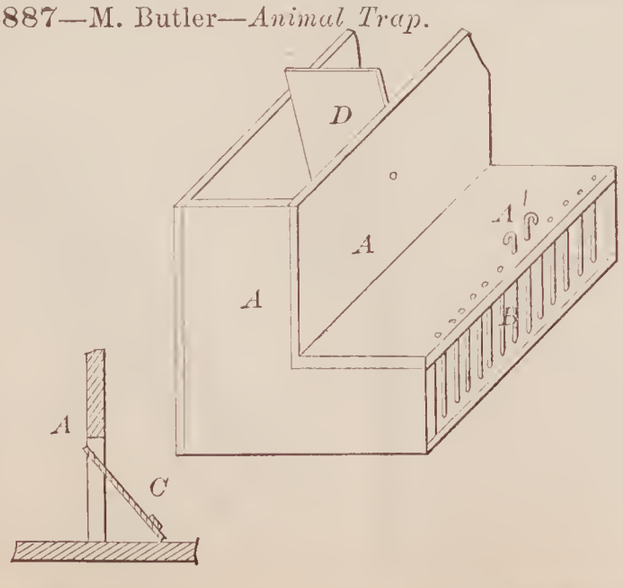
74883—J. Bradley—*Plow.*



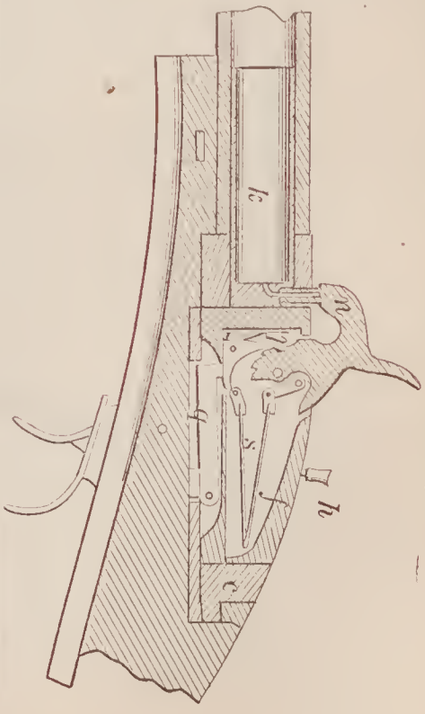
74886—A. C. Briant—*Animal Trap.*



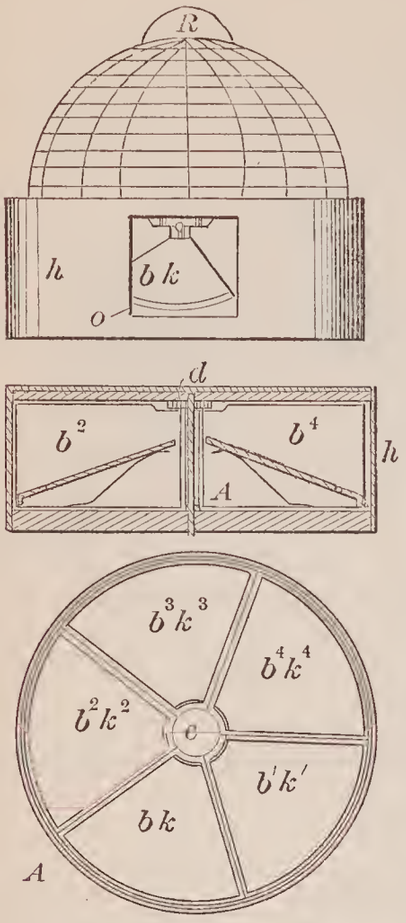
74887—M. Butler—*Animal Trap.*



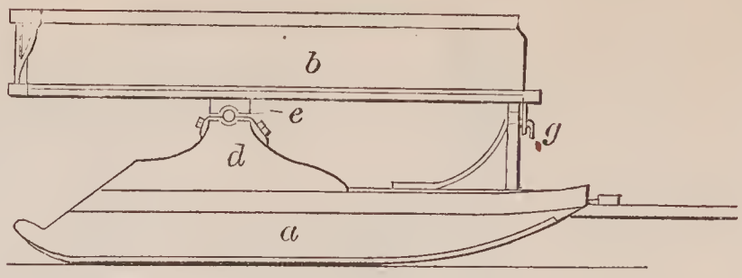
74888—C. Callaghon—*Breech-Loading Fire Arm.*



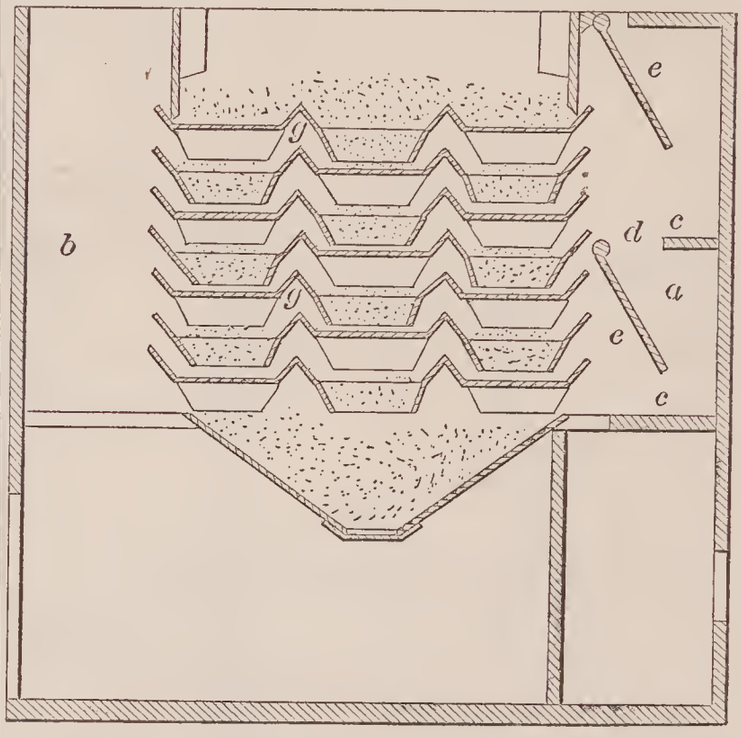
74889—C. R. Capps—*Animal Trap.*



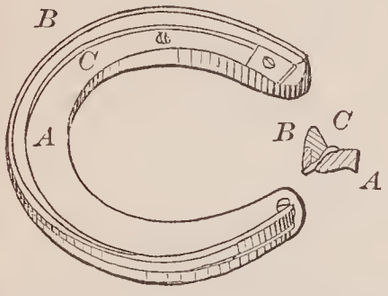
74891—S. Chamberlin—*Tip Sled.*



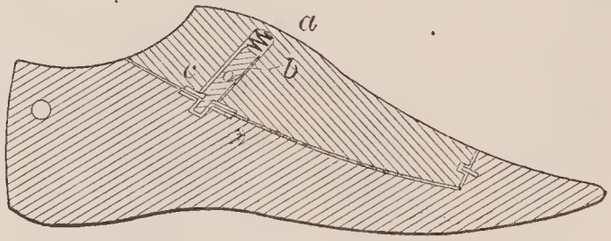
74893—L. S. Chichester—*Grain Dryer.*



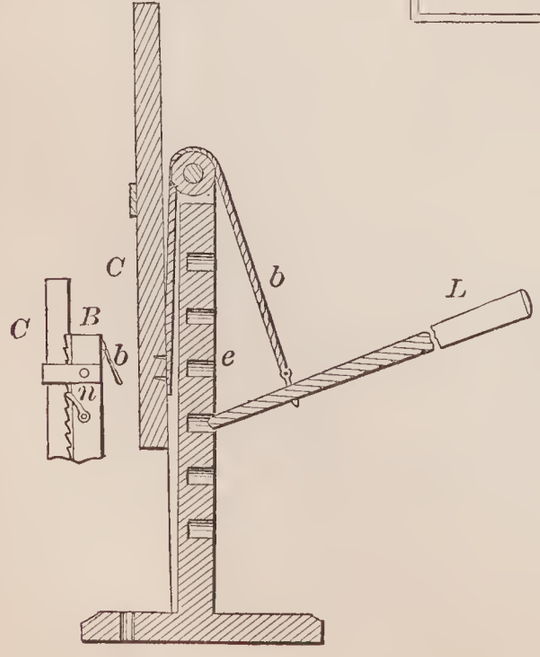
74892—G. T. Chapman—*Horse Shoe.*



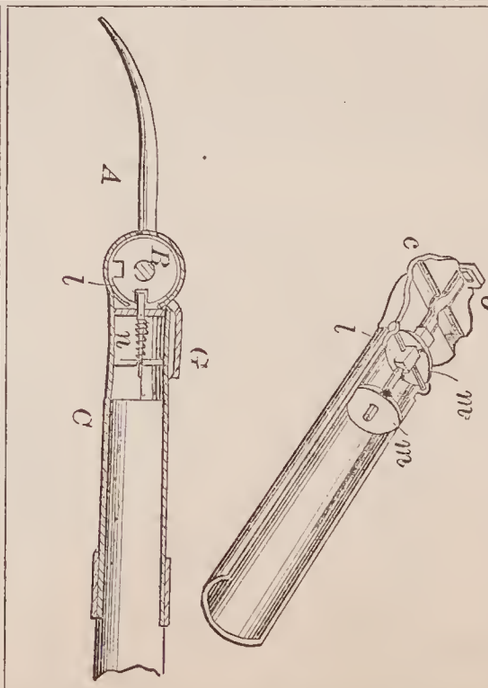
74890—Carr & Holbrook—*Last.*



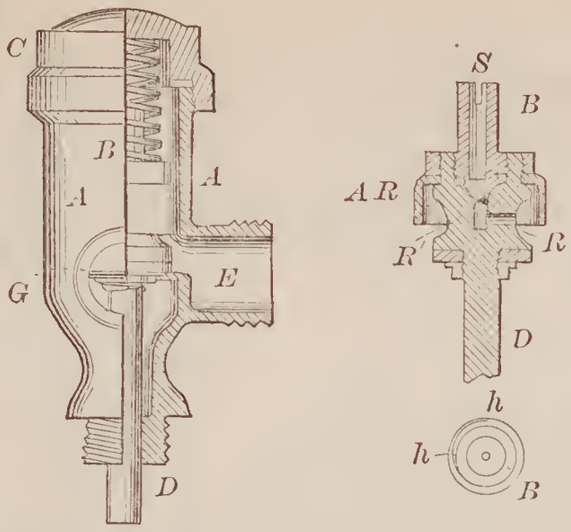
74894—O. Churchill—*Carriage Jack.*



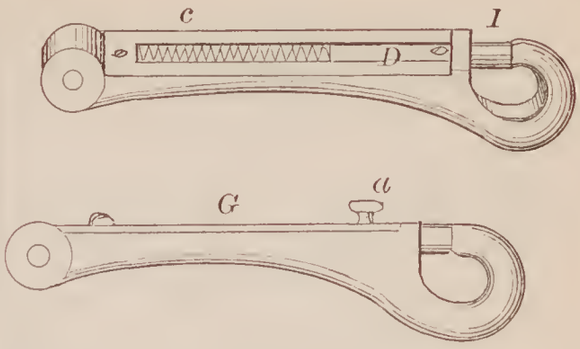
74895—C. C. Cole—*Manure Fork and Hook.*



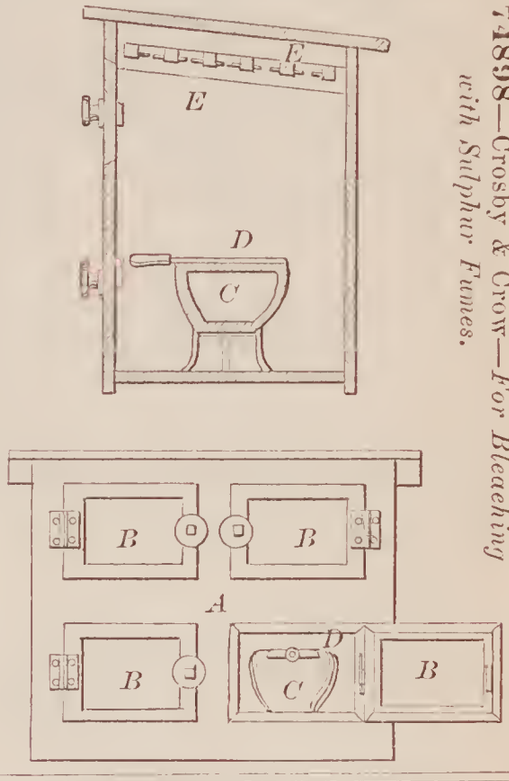
74896—W. S. Cooper—*Water Closet Valve.*



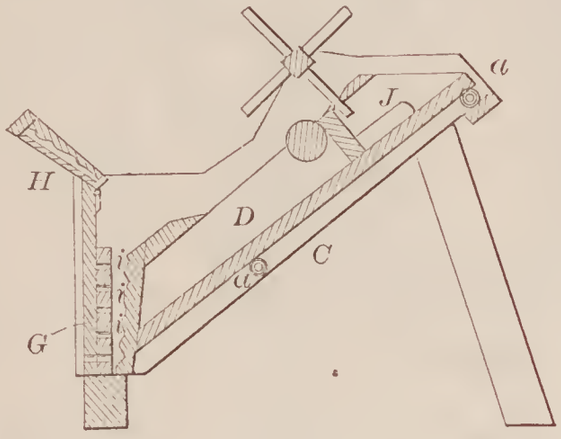
74897—J. C. Covert—*Snap Hook.*



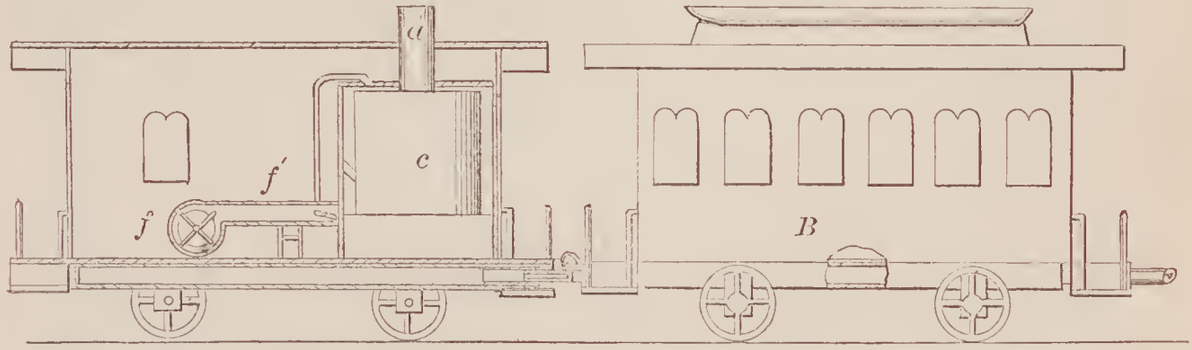
74898—Crosby & Crow—*For Bleaching with Sulphur Fumes.*



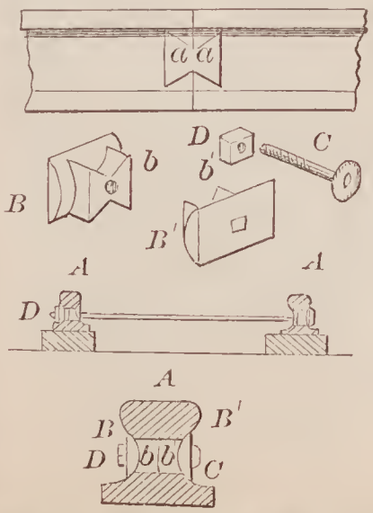
74902—L. S. Enos—*Washing Machine.*



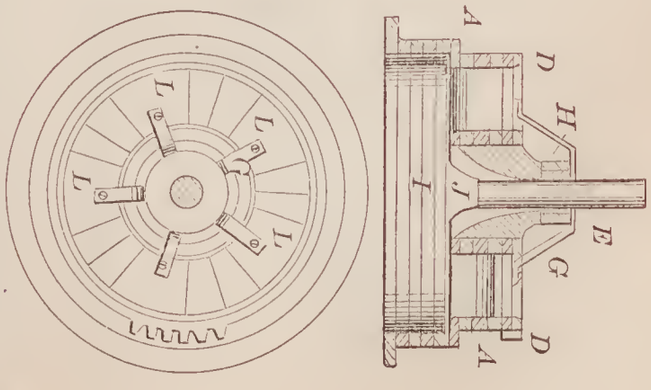
74899—D. H. Dotterer—*For Heating and Ventilating Cars.*



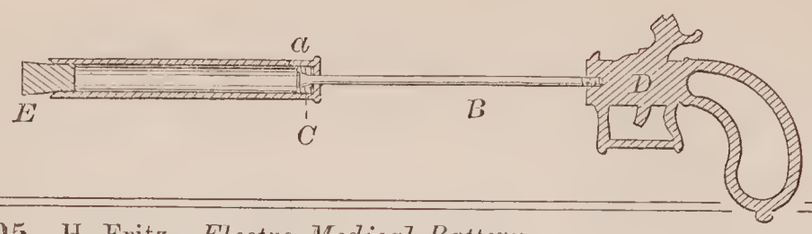
74900—E. H. Eberman—*Railroad Rail Joint Splice.*



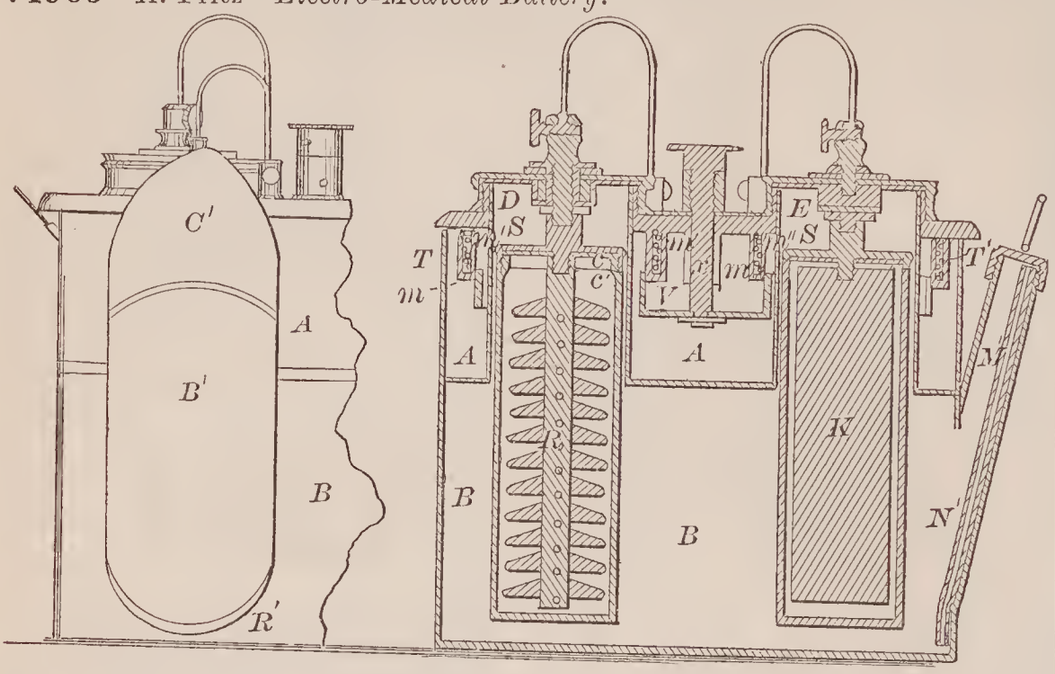
74903—F. R. Ferris—*Water Wheel.*



74904—R. Frisbie—*Toy Pistol.*

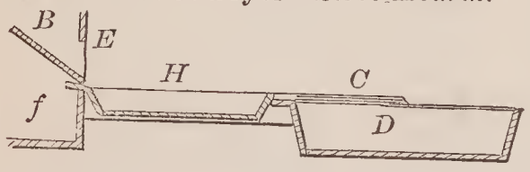


74905—H. Fritz—*Electro-Medical Battery.*

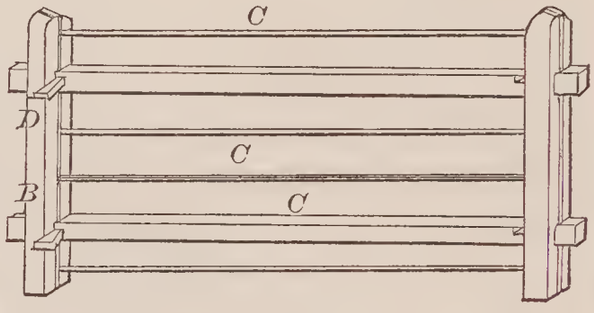


74907—J. W. Gardner—*Solid Steel Knife.*

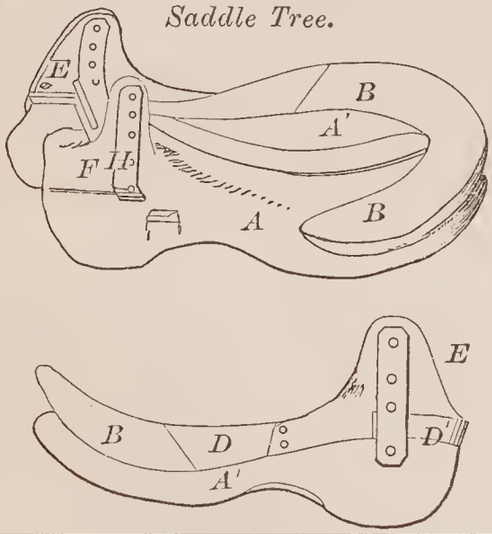
74906—W. J. Fryer—*Stove Hearth.*



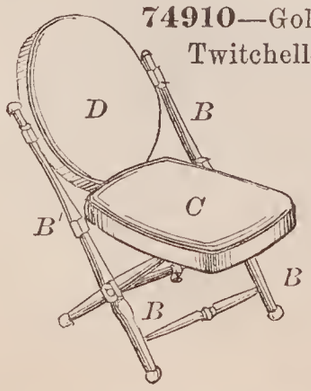
74908—M. J. Gaskill—*Fence.*



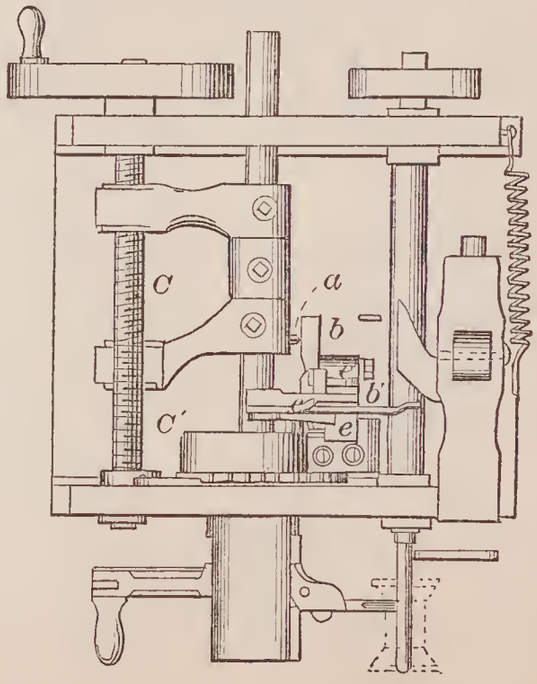
74909—J. B. Gathright—*Side Saddle Tree.*



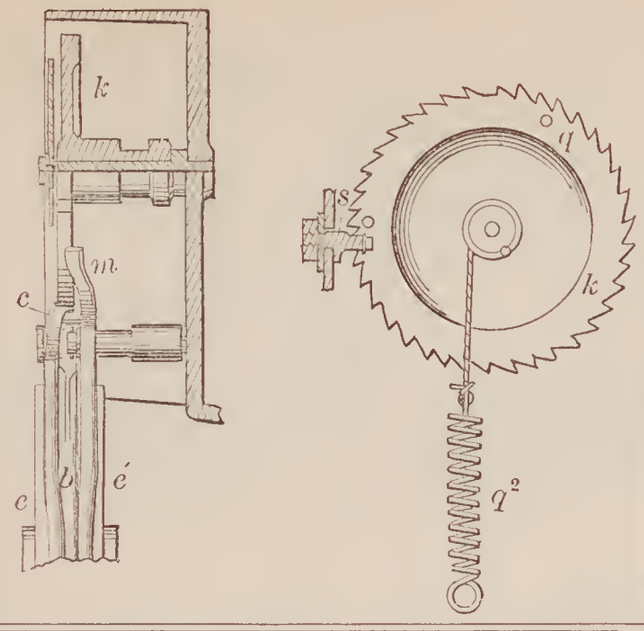
74910—Golightly & Twitchell—*Chair.*



74911—W. Grover—*Attachment for Thread Winding Machines.*

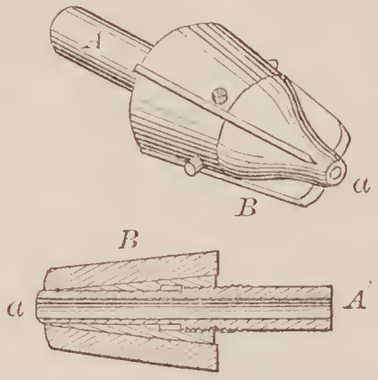


74911—*Continued.*

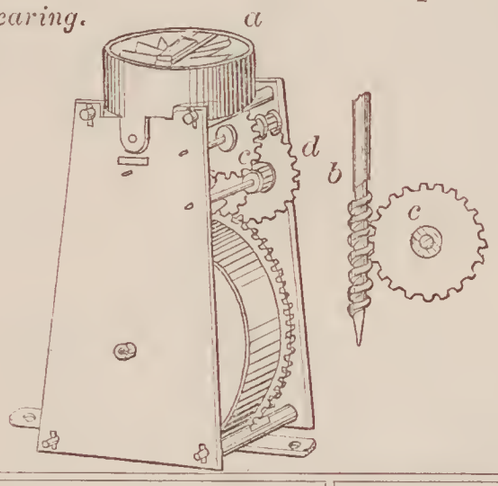


74912—A. N. Hadley—*Boot and Shoe Insole.*

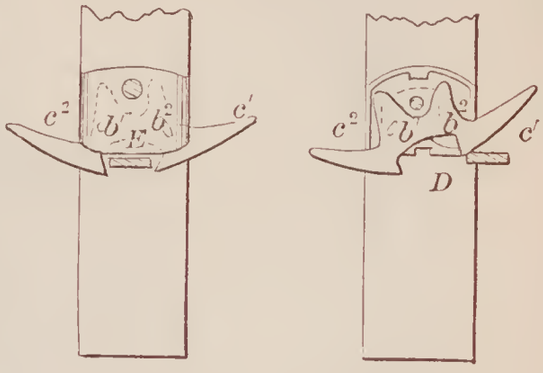
74913—L. Heywood—*Rattan Machine.*



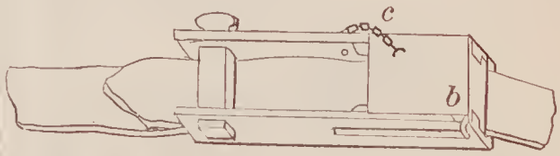
74914—Hitchcock & Jones—*Lamp Train Gearing.*



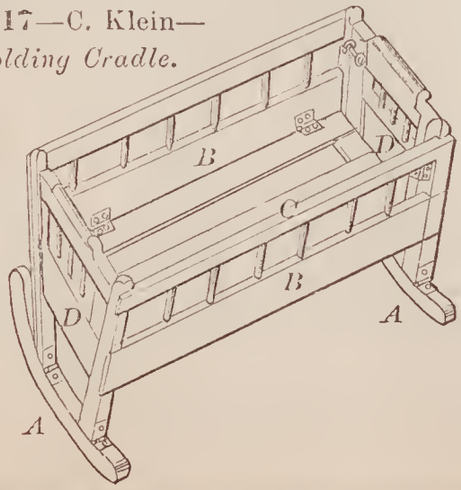
74915—S. Ingersoll—*Gate Latch.*



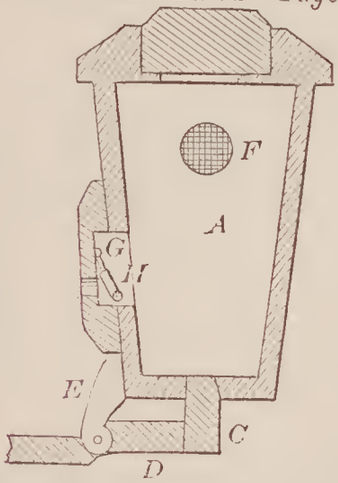
74916—G. B. Kirkham—*Strap Holder.*



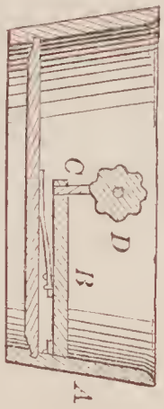
74917—C. Klein—*Folding Cradle.*



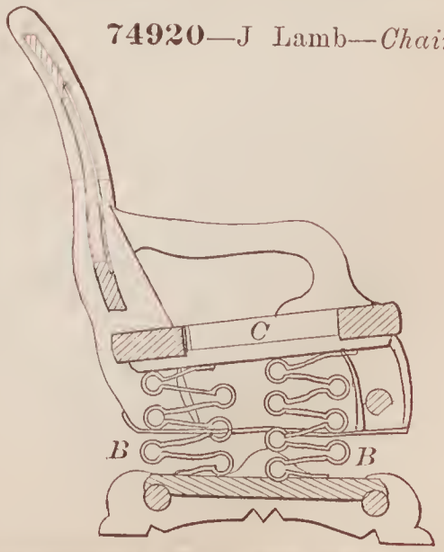
74918—H. Laird—*Tuyere.*



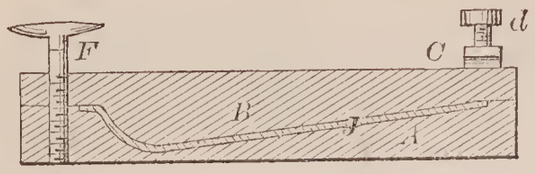
74919—A. Lamb—*Washing Machine.*



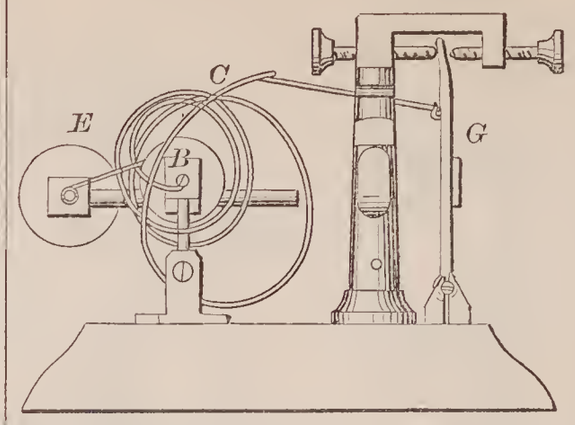
74920—J Lamb—*Chair.*



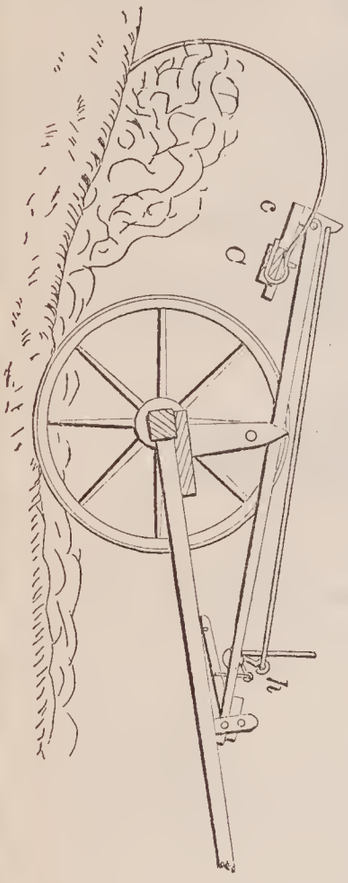
74921—G. W. Lawbaugh—*Harness Pad Press.*



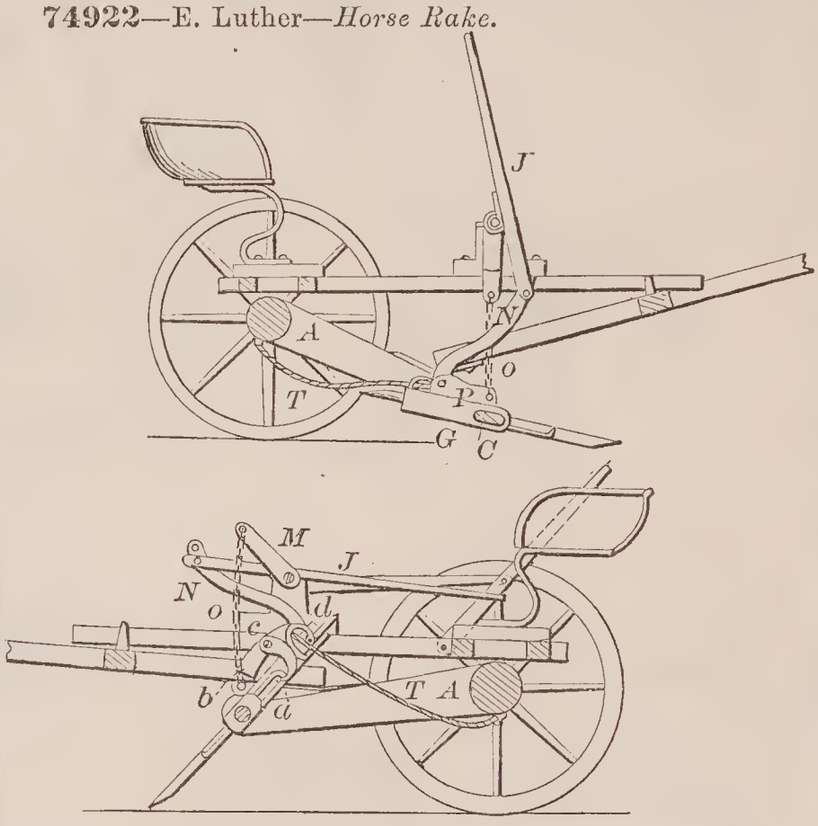
74925—W. N. McInnis—*Spring for Relay Magnets.*



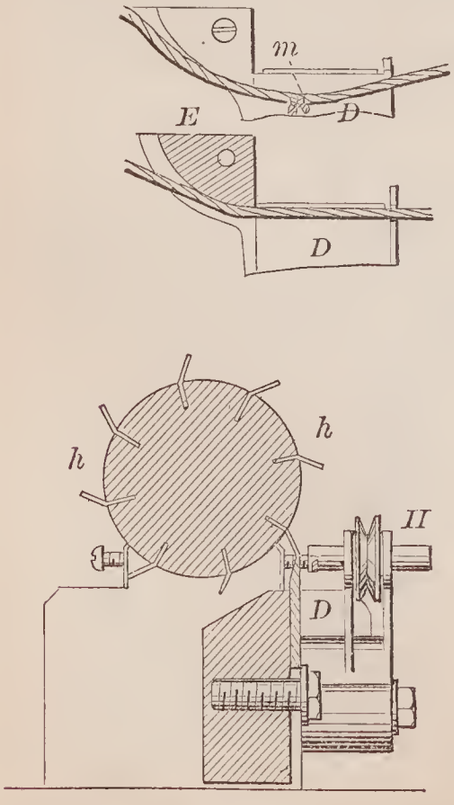
74924—W. McCord—*Horse Rake.*



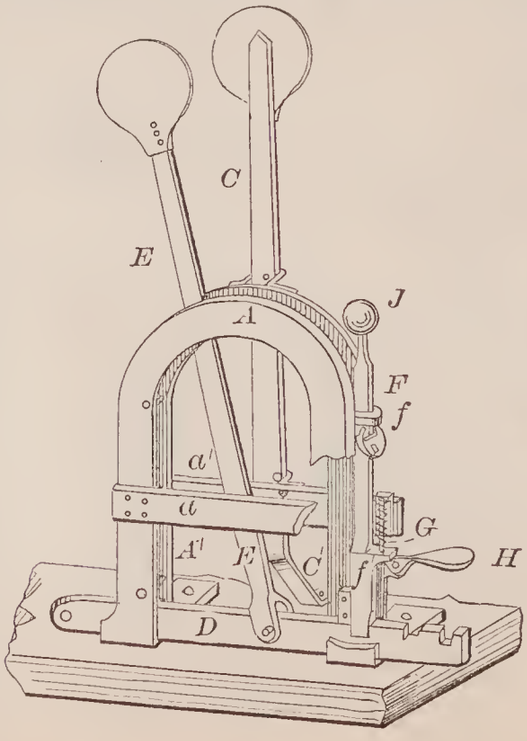
74922—E. Luther—*Horse Rake.*



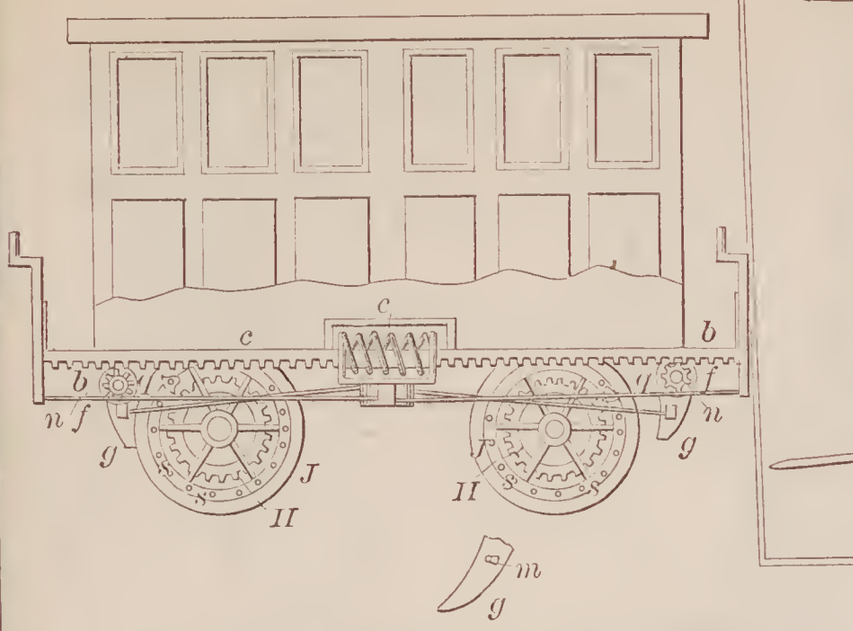
74923—C. L. Lutton—*For Shearing Yarn.*

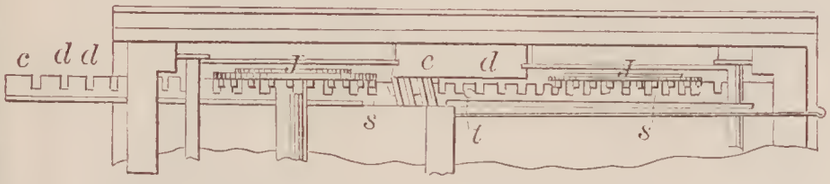


74926—A. McLeod—*Railway Switch Stand*

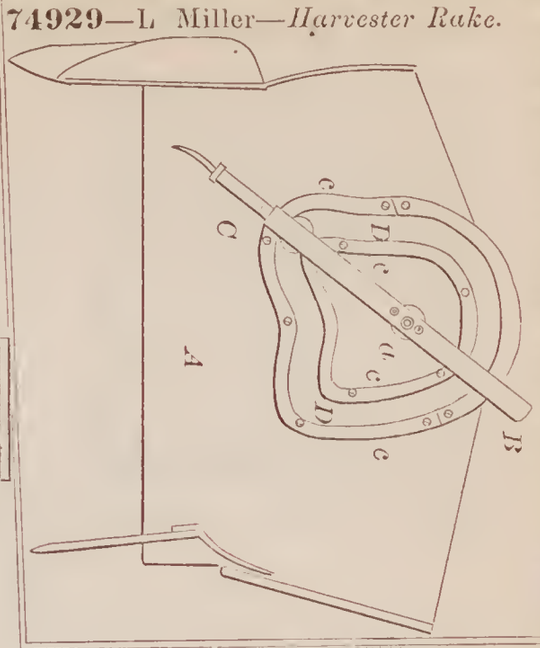


74927—J. McMurtry—*For Starting Cars.*



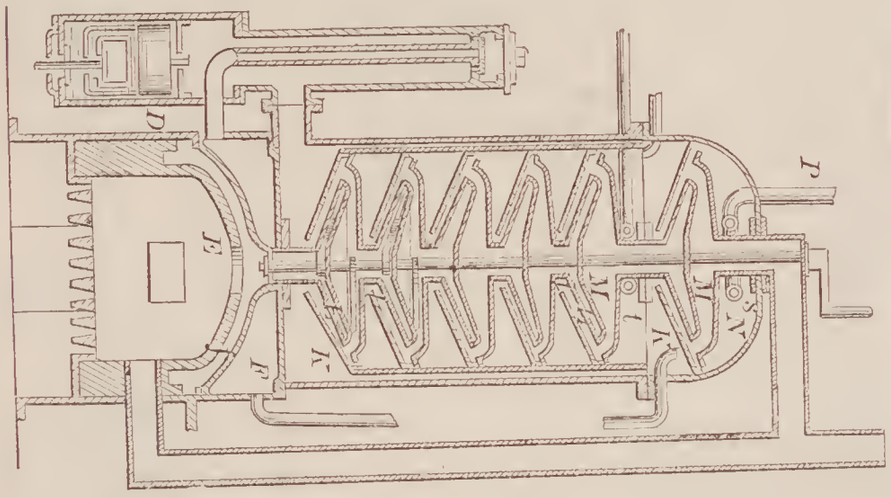


74929—L. Miller—*Harvester Rake.*

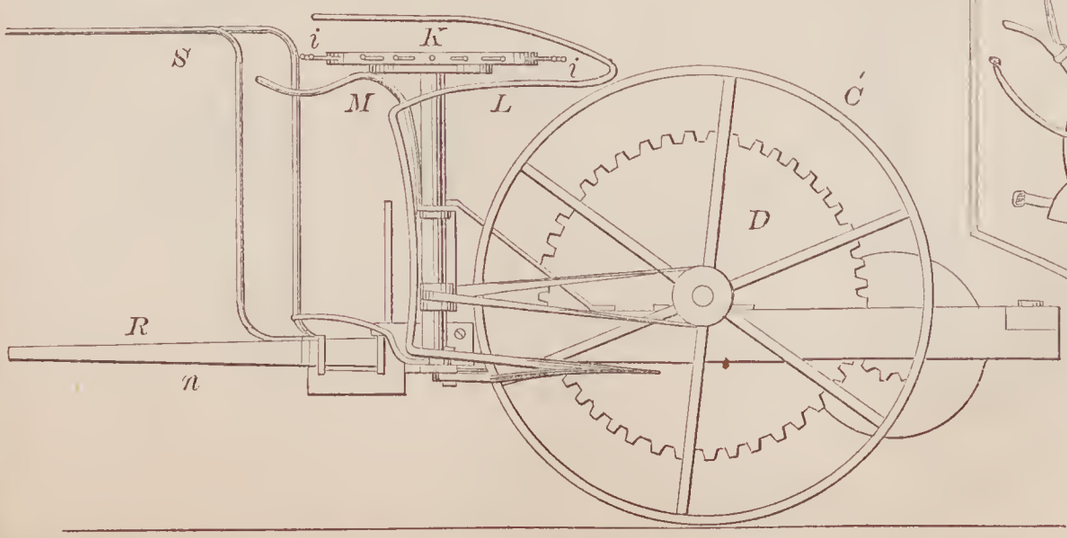


74931—H. Olsen—*Life Preserving and Swimming Apparatus.*

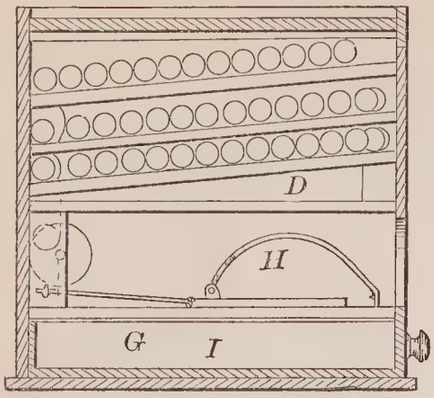
74930—Neumann, Lassoe & McCord—*Steam Generator.*



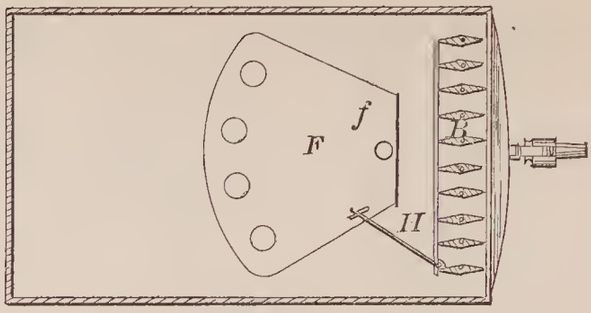
74928—Q. F. Messinger—*Corn Harvester.*



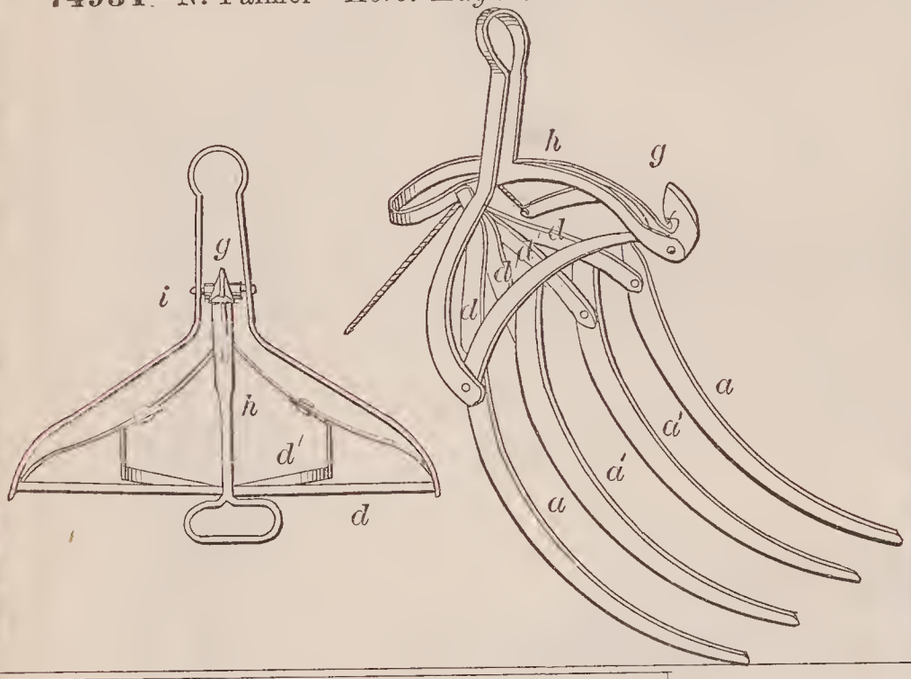
74932—J. P. Outcalt—*Ballot Box.*



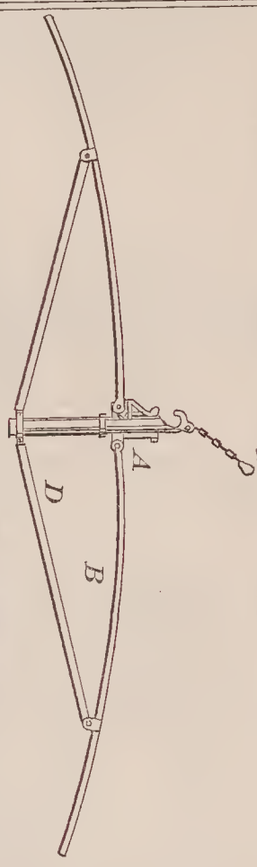
74936—B. B. Perkins—*Boiler and Hot Air Register.*



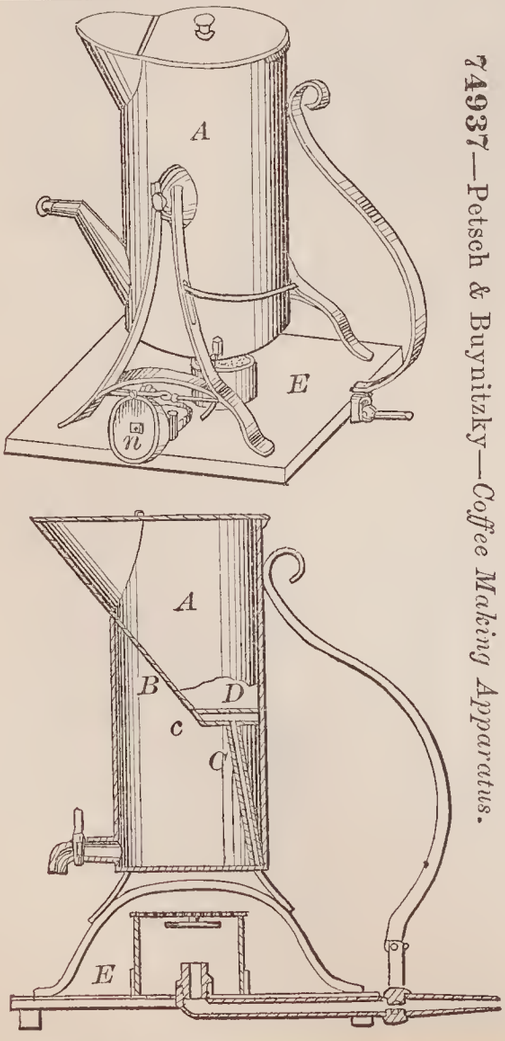
74934—N. Palmer—*Horse Hay Fork.*



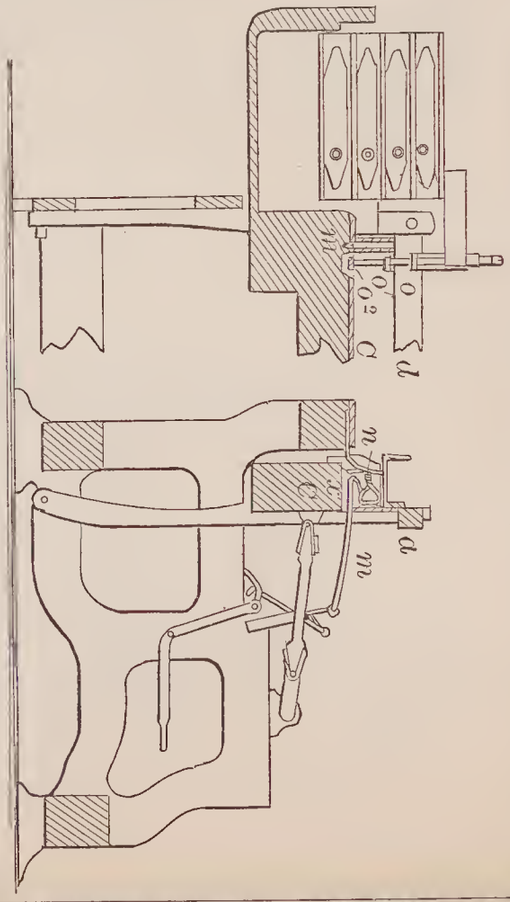
74933—I. E. Palmer—*Mosquito Canopy.*



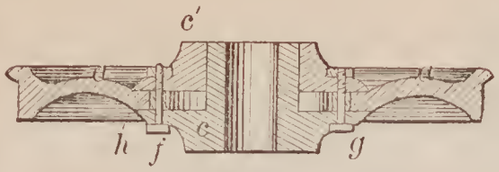
74937—Petsch & Buynitzky—*Coffee Making Apparatus.*



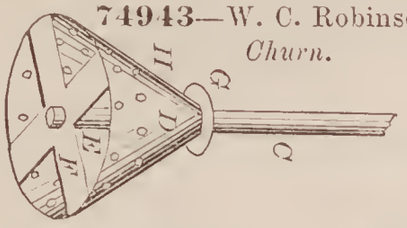
74938—W. J. Quinn—*Loom.*



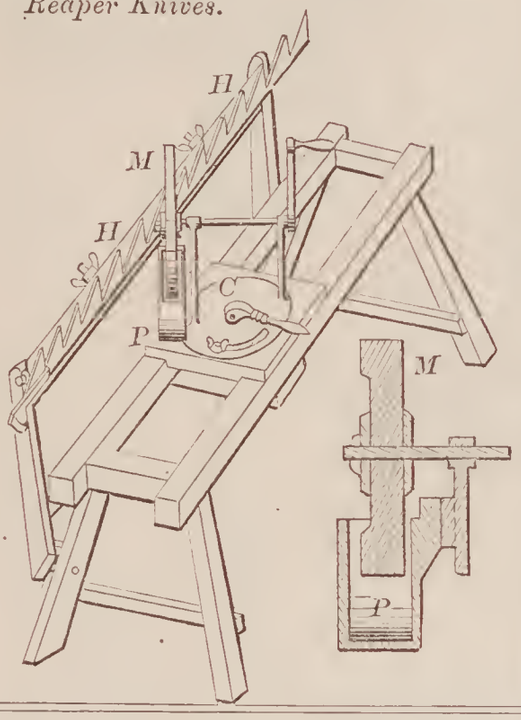
74939—J. Raddin—*Car Wheel.*



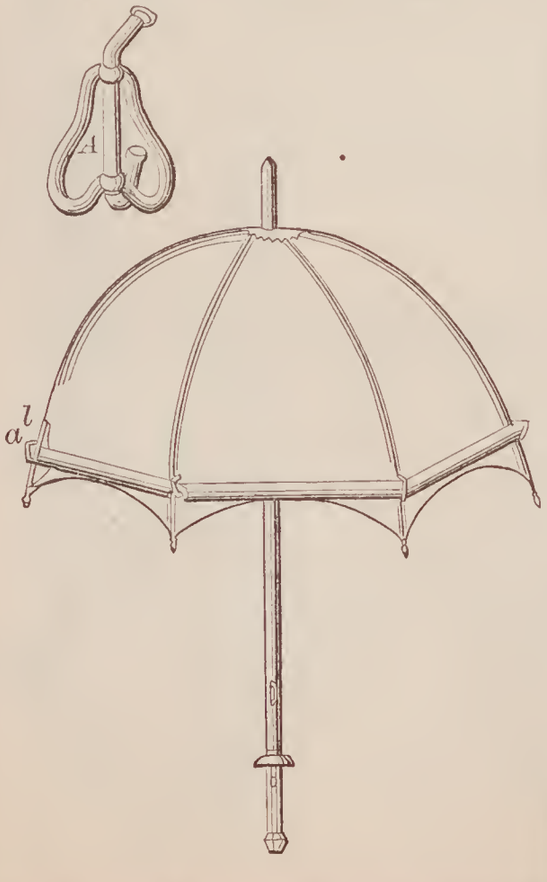
74943—W. C. Robinson—*Churn.*



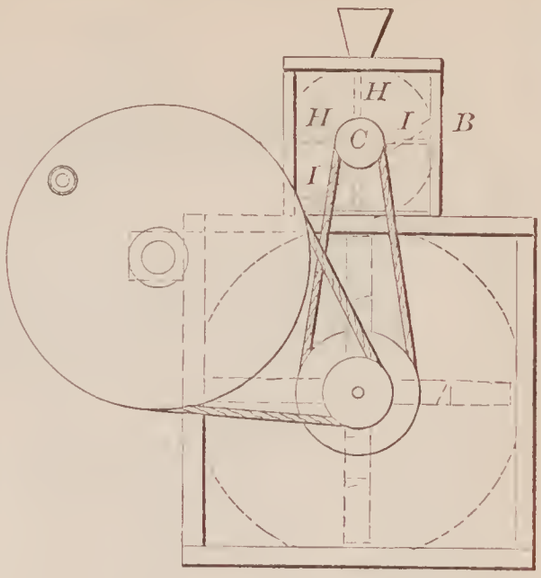
74942—C. Richardson—*For Grinding Reaper Knives.*



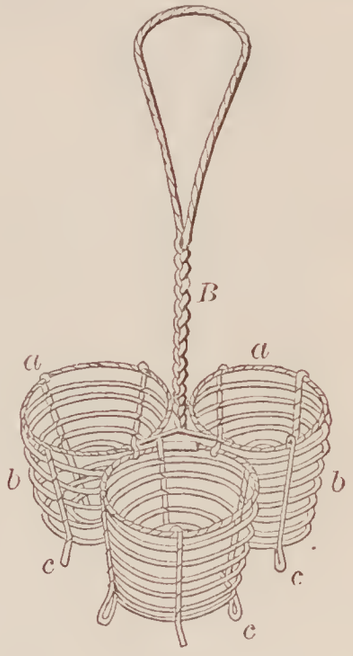
74944—E. F. Schreiner—*Umbrella.*



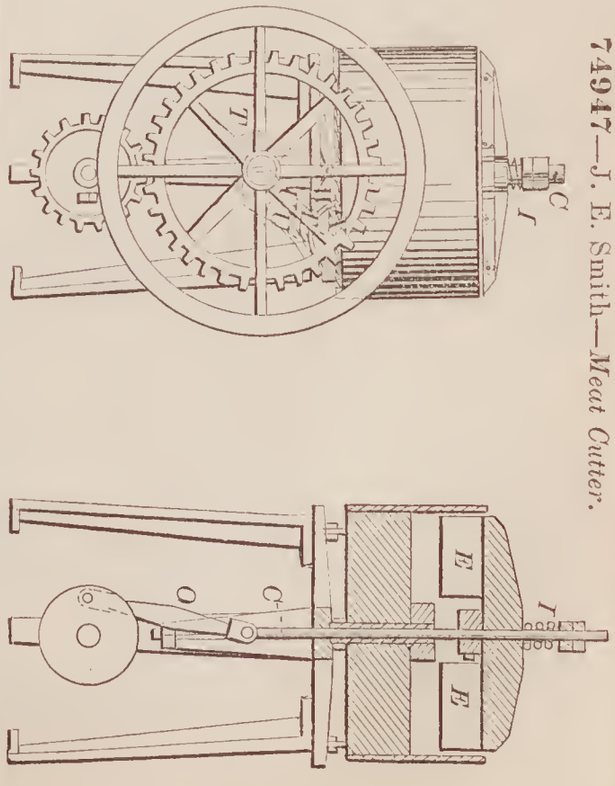
74941—J. B. Raynor—*Churn.*



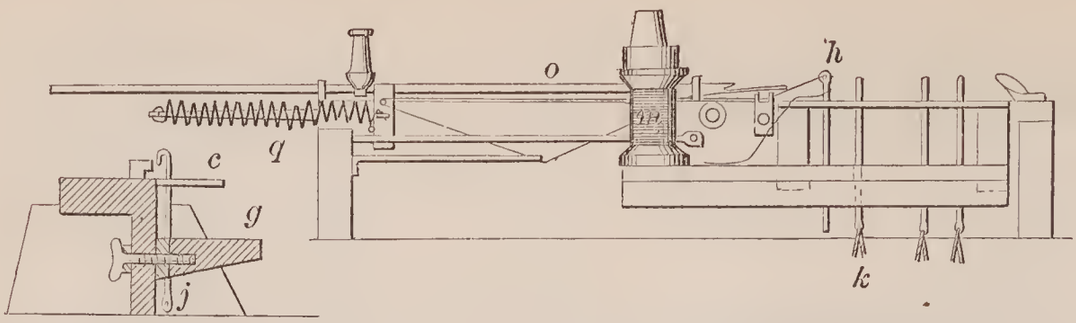
74945—D. Sherwood—*Table Caster.*



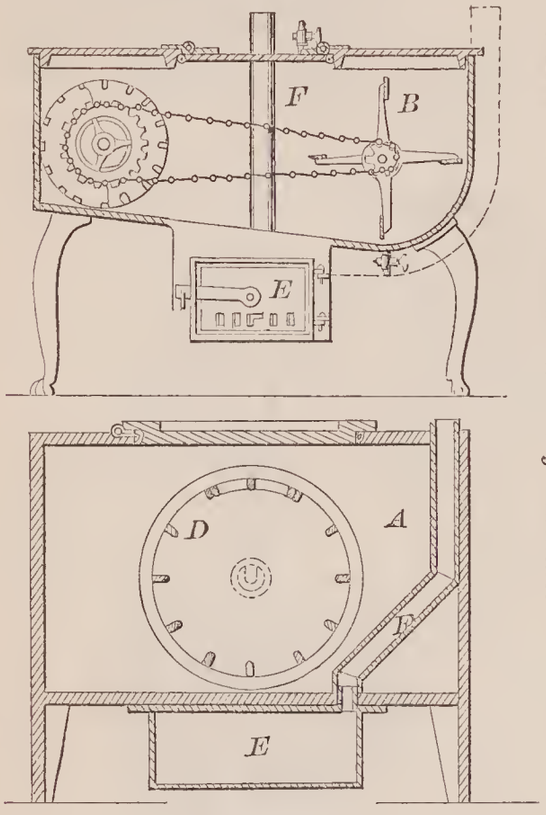
74947—J. E. Smith—*Meat Cutter.*



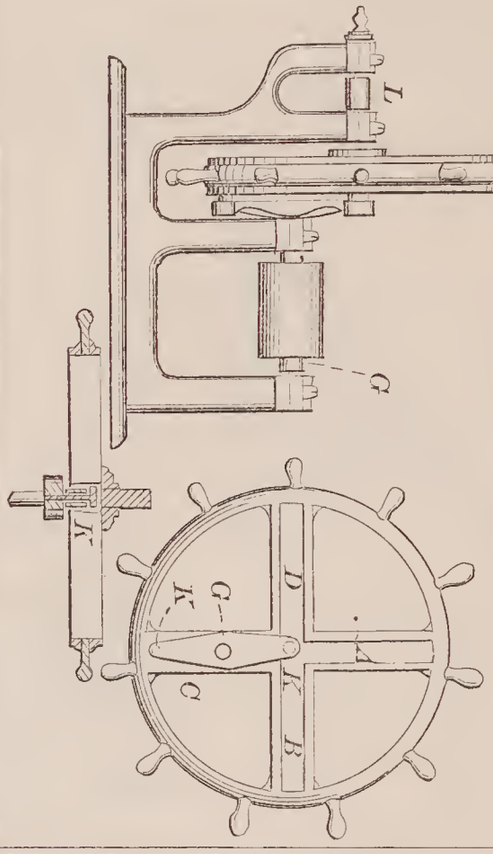
74948—D. M. Smyth—*For Sewing Books.*



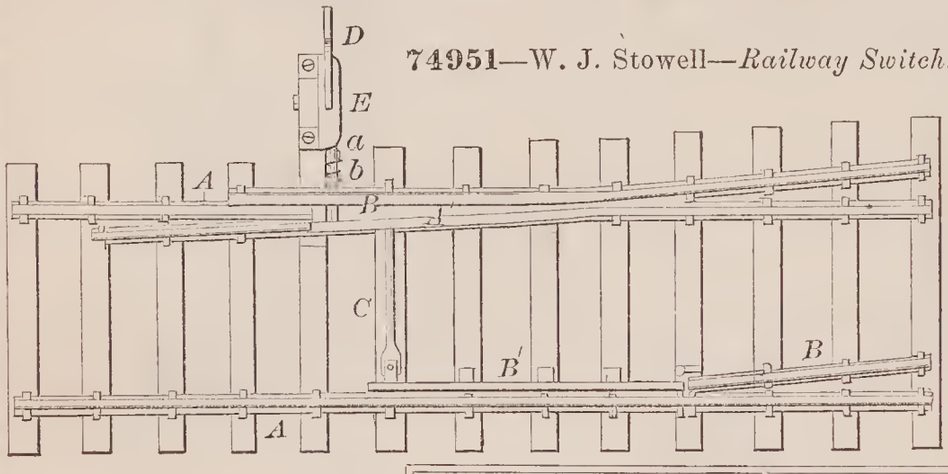
74949—D. E. Somes—*Washing Machine.*



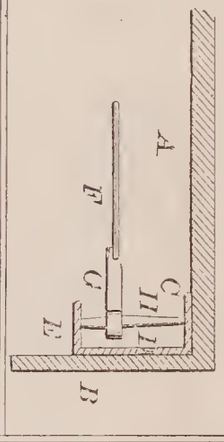
74952—W. R. Swinnerton—*Mechanical Movement.*

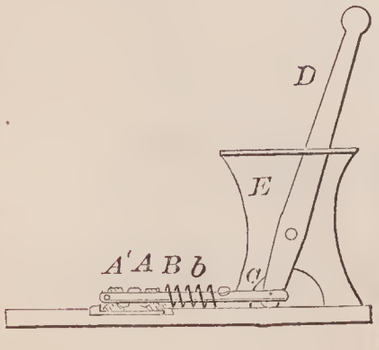


74951—W. J. Stowell—*Railway Switch.*

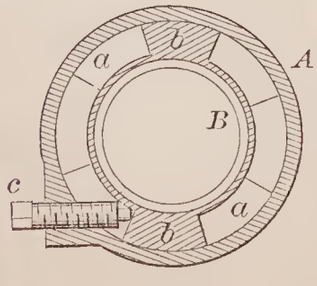


74953—P. Sylla—*Hat Rack for Seats.*

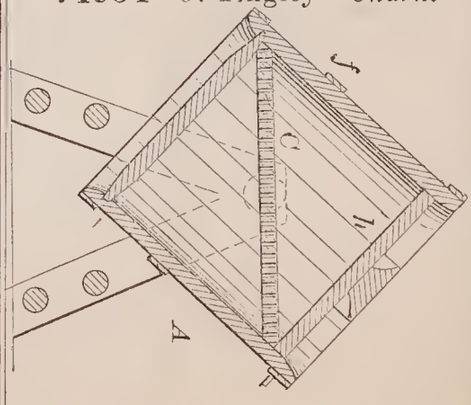




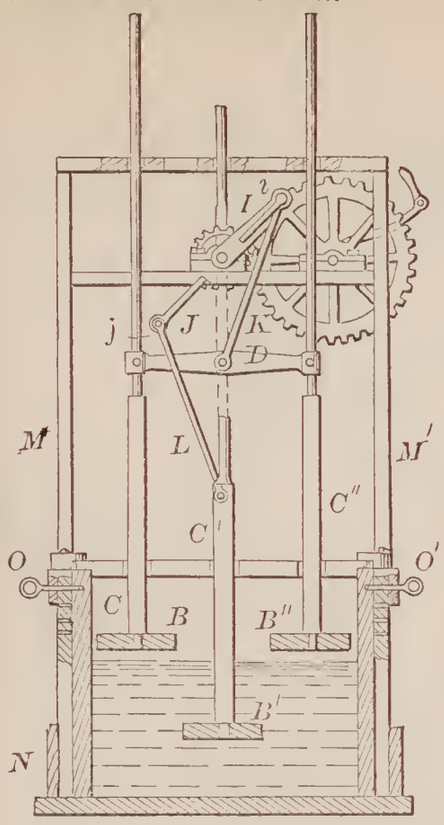
74950—J. Steger—*Hose Coupling.*



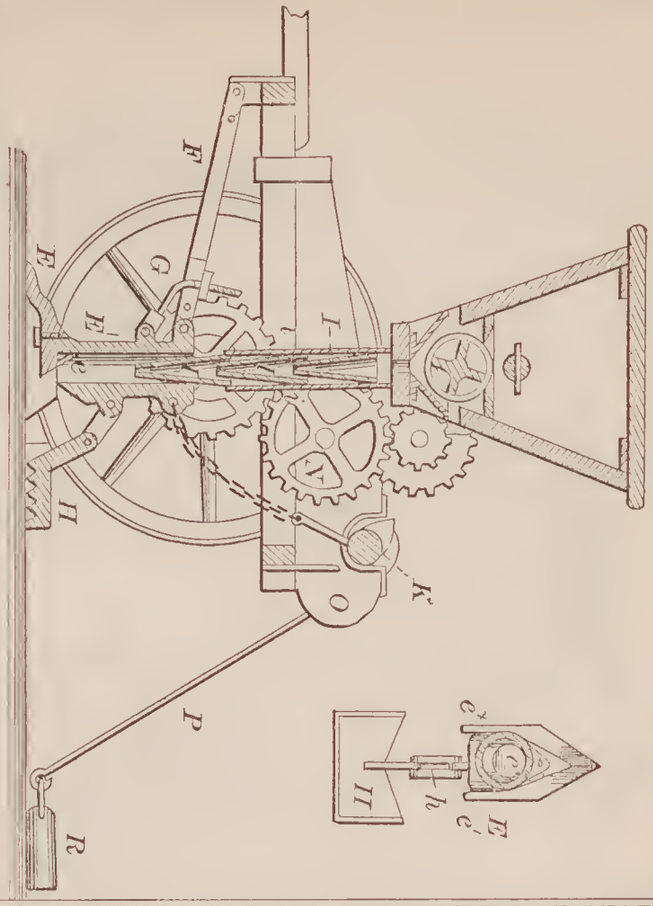
74954—J. Tingley—*Churn.*

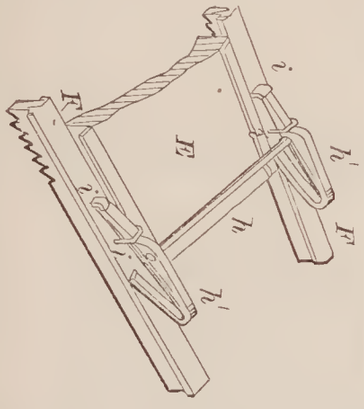


74955—J. Toll—*Churn.*

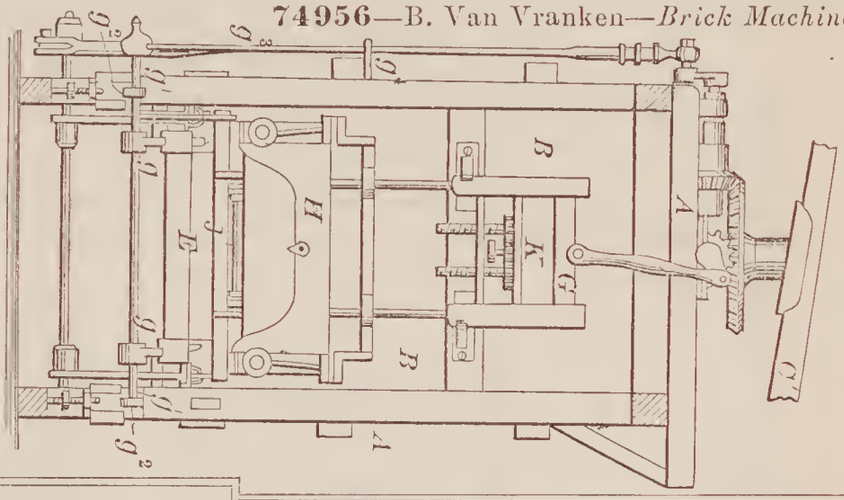


74957—E. Wagoner—*Rice Planter.*

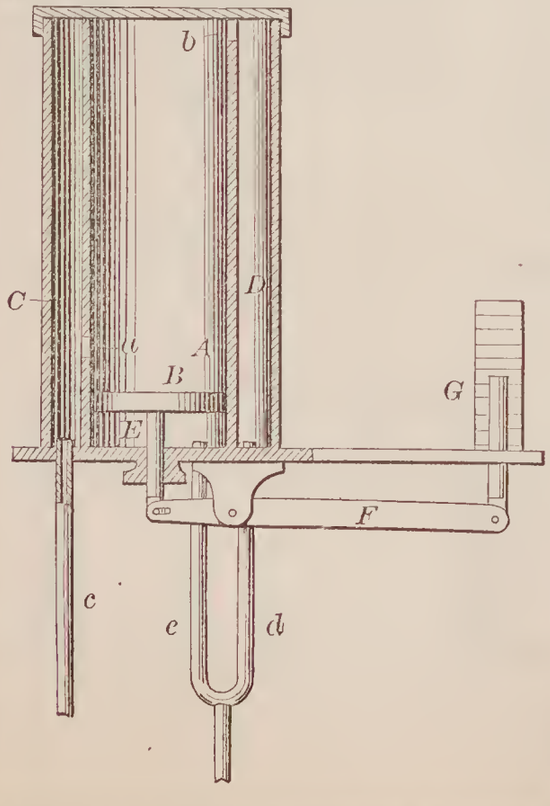




74956—B. Van Vranken—*Brick Machine.*

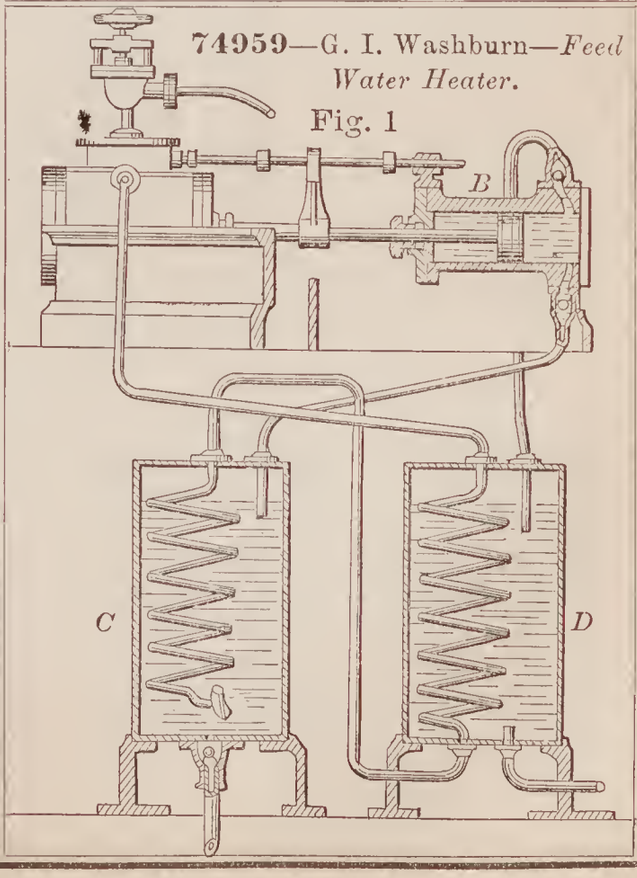


74958—H. Wanklin—*Salinometer Pot.*

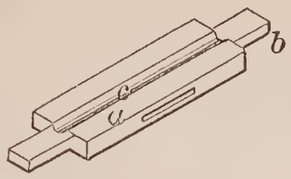


74959—G. I. Washburn—*Feed Water Heater.*

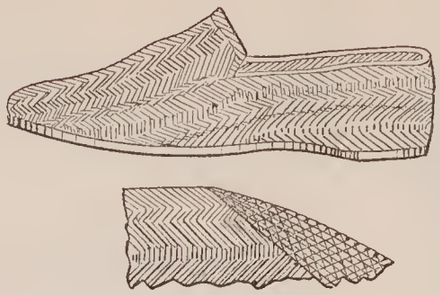
Fig. 1



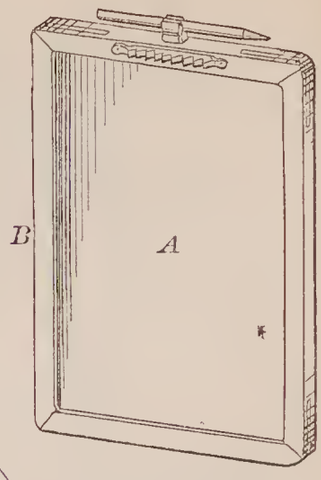
74960—H. Waters—*Hoe Blank.*



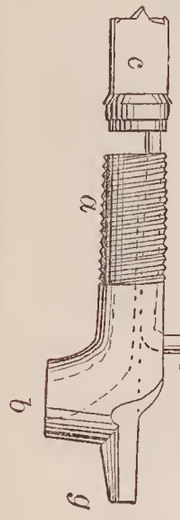
74962—M. Wesson—*Shoe.*



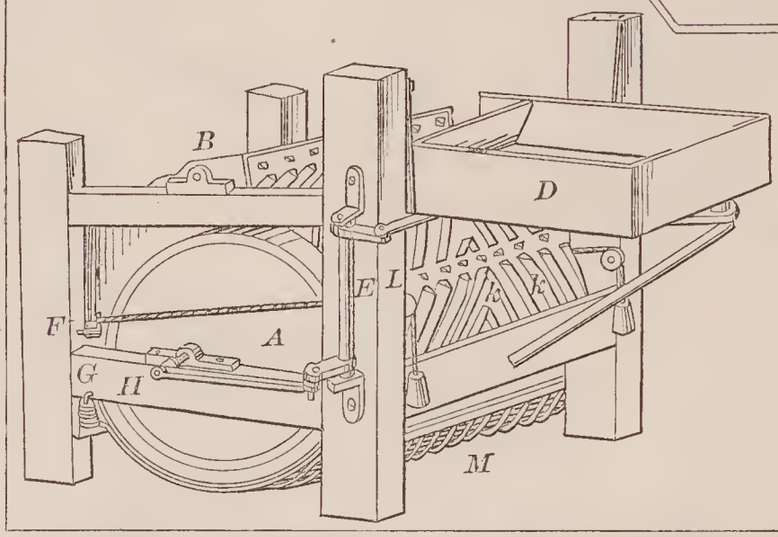
74964—Weigel, Lehnbeuter & Fegers—*School Slate.*



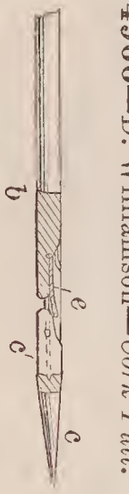
74961—A. Weed—*Boring Faucet.*



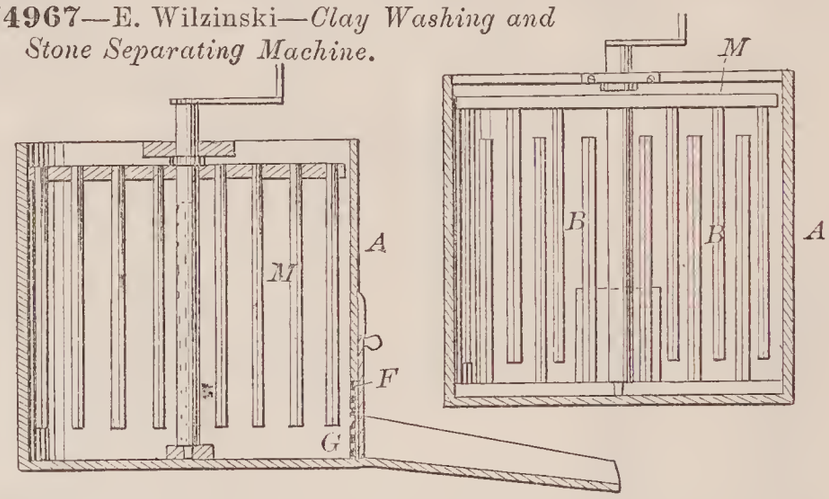
74965—J. R. Wilbur—*Corn Sheller.*



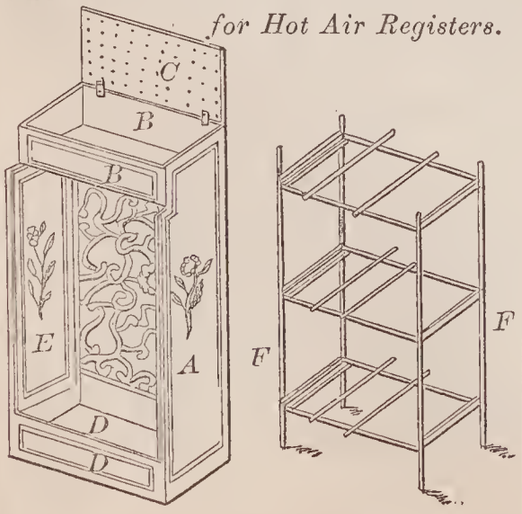
74966—D. Williamson—*Cork Pull.*



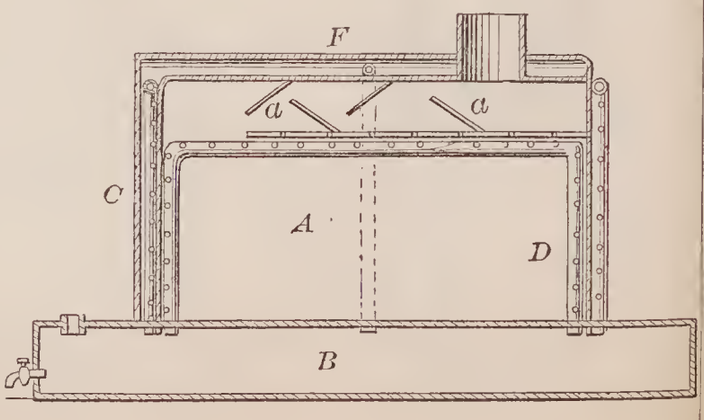
74967—E. Wilzinski—*Clay Washing and Stone Separating Machine.*



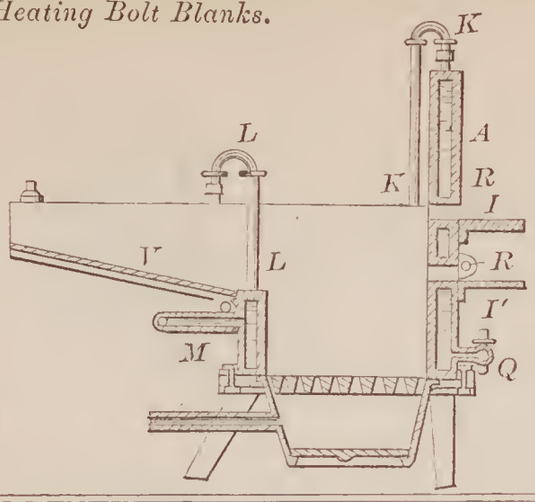
74968—J. D. McBride—*Attachment for Hot Air Registers.*



74969—A. P. Winslow—*Railroad Car Stove.*

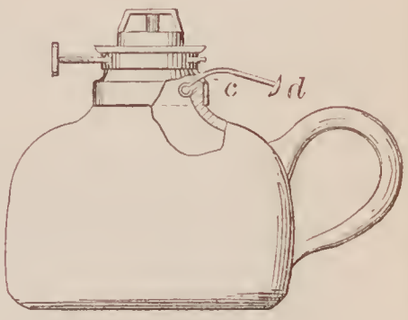


74970—A. Alexander—*Furnace for Heating Bolt Blanks.*

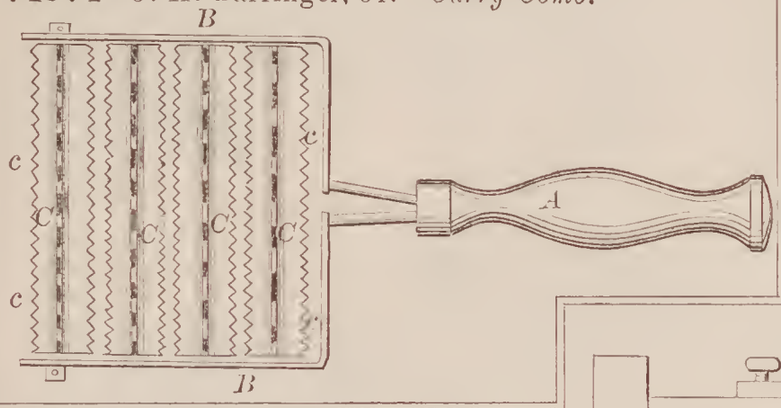


74971—A. M. Asay—*Card for Artificial Teeth.*

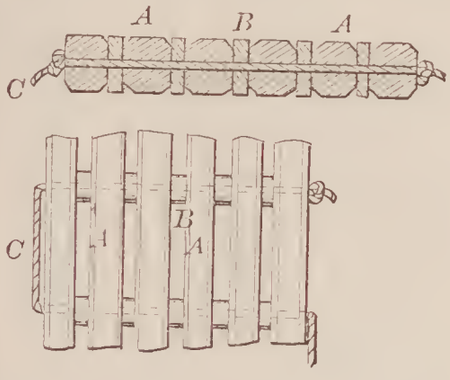
74972—S. K. Ayers—*Lamp.*



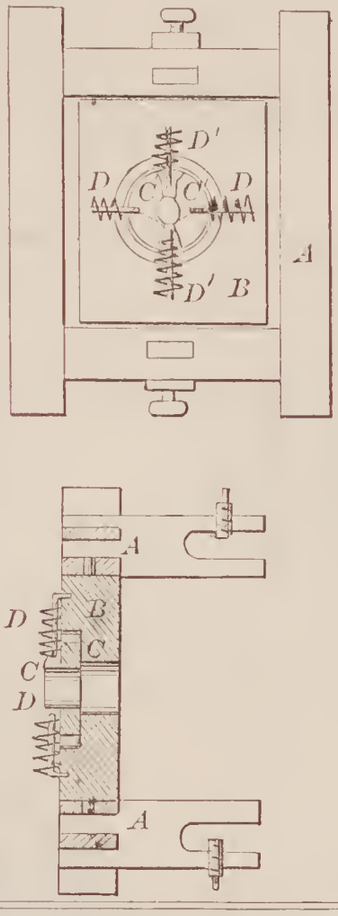
74974—J. H. Barringer, Jr.—*Curry Comb.*



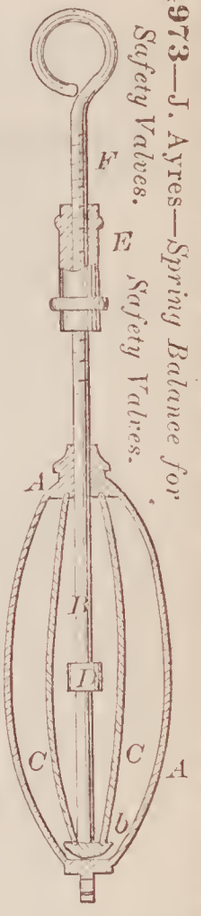
74975—W. Barton—*Slat Matting.*



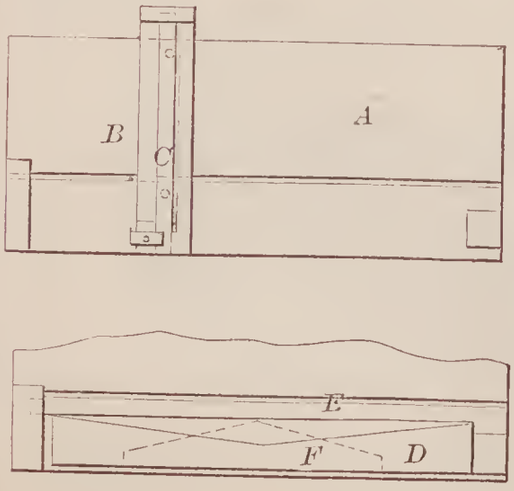
74976—S. Bean—*Cane Cleaner.*



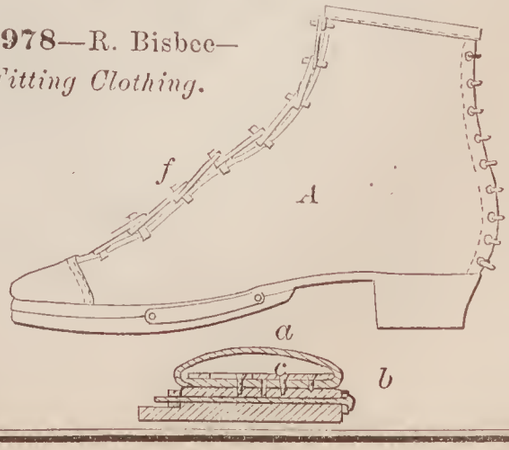
74973—J. Ayres—*Spring Balance for Safety Valves.*



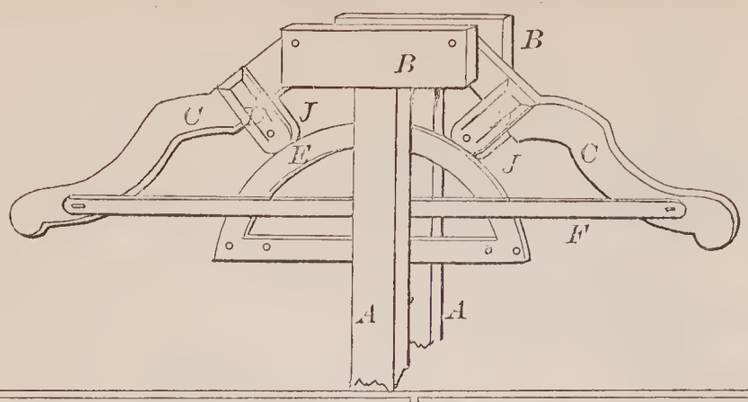
74977—L. Bennet—*For Cutting out Drawers.*



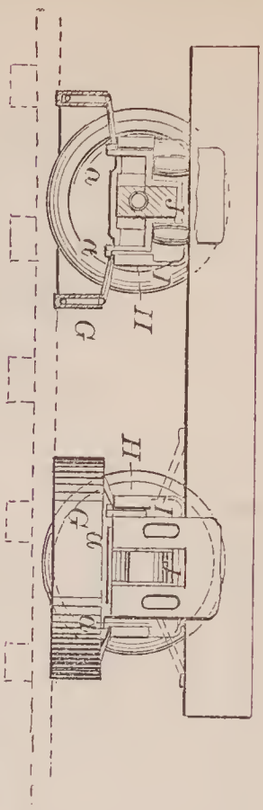
74978—R. Bisbee—*Fitting Clothing.*



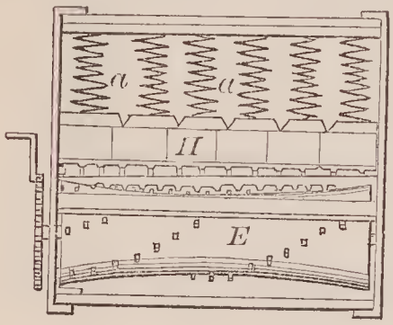
74979—M. Bockman—*Mechanical Movement.*



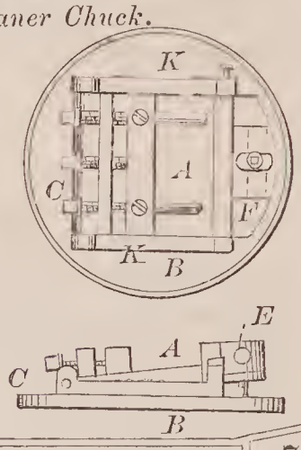
74980—G. W. Brady—*Safety Attachment to Railroad Cars.*



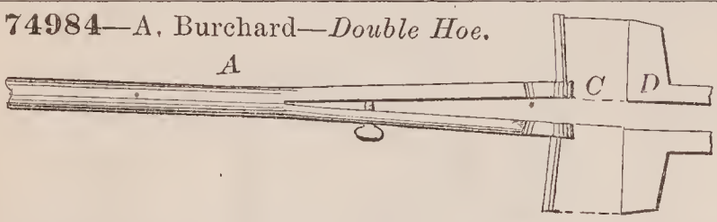
74981—J. Brinkerhoff—*Corn Sheller.*



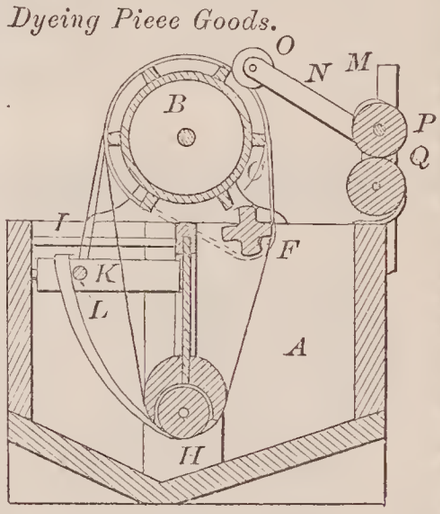
74982—R. A. Bruce—*Planer Chuck.*

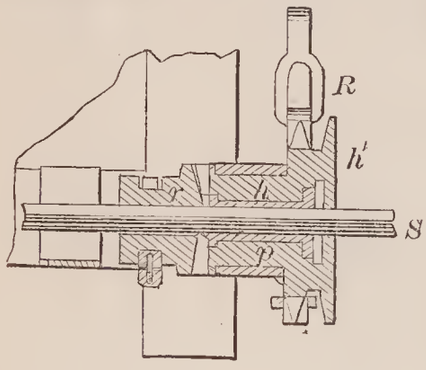


74984—A. Burchard—*Double Hoe.*

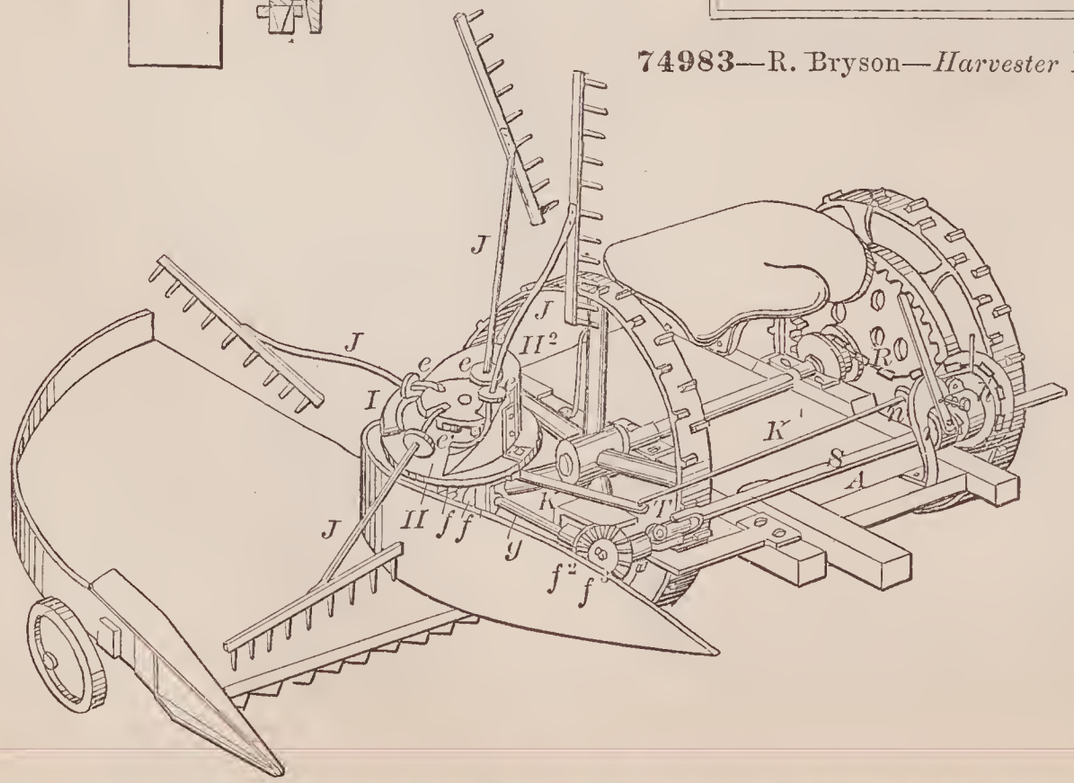


74985—H. Bnrrows—*For Dyeing Piece Goods.*

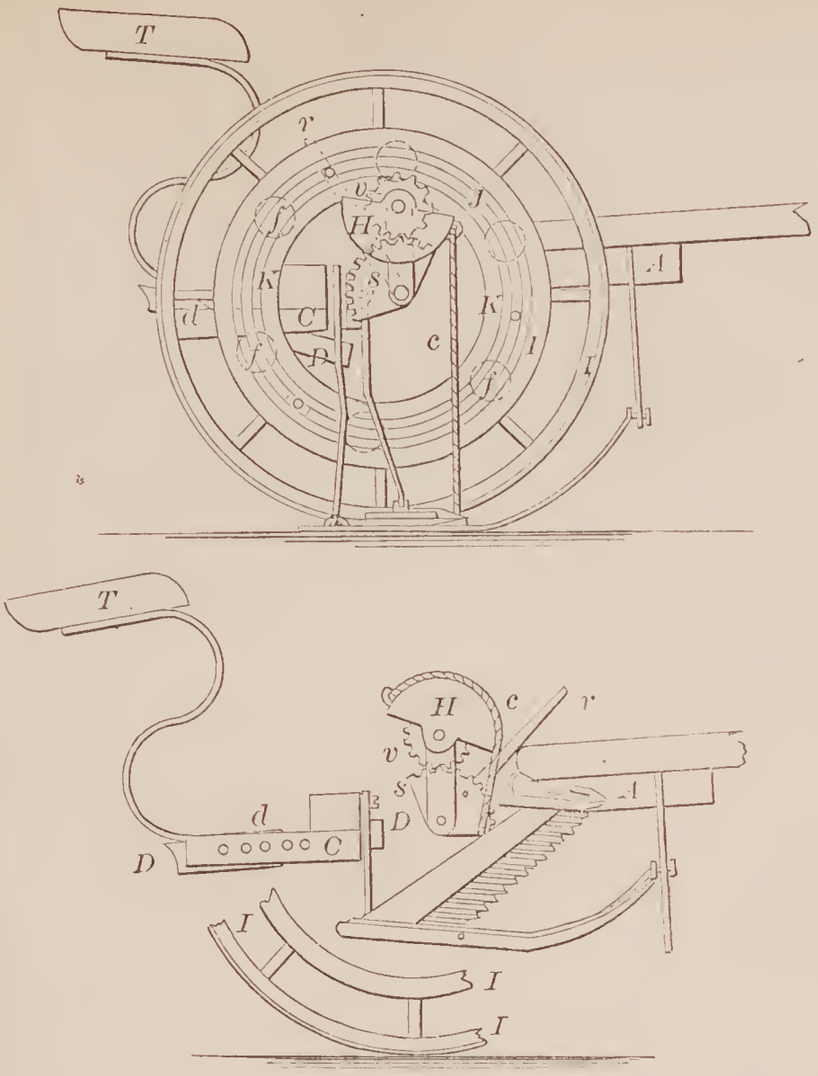




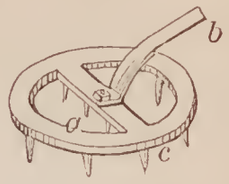
74983—R. Bryson—*Harvester Rake.*



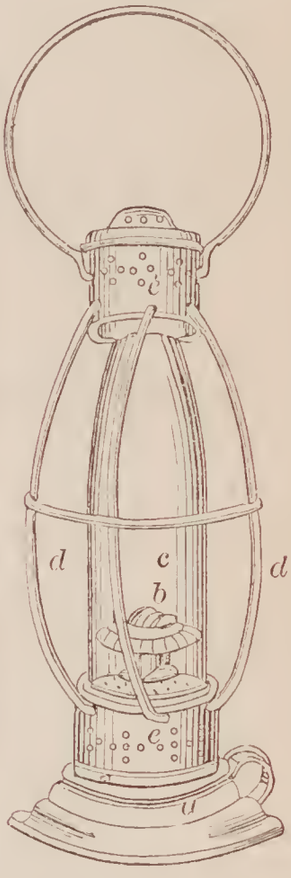
74986—G. E. Burt—*Mowing Machine.*



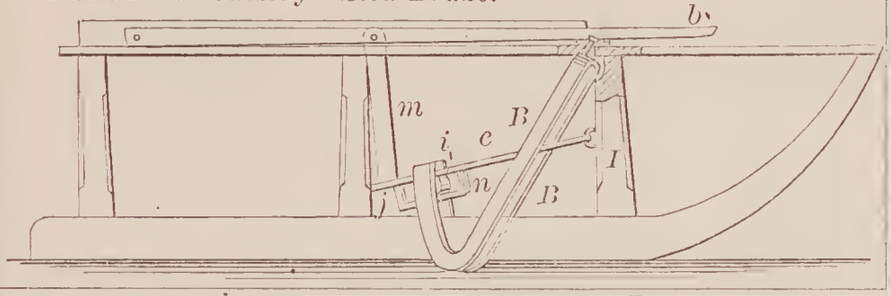
74987—J. H. Butler—*Rake.*



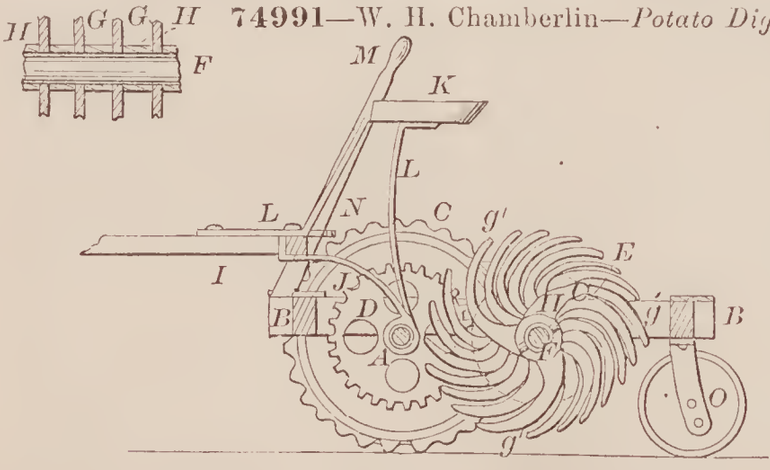
74988—J. Caldwell—*Lantern.*



74989—J. Cassidy—*Sled Brake.*

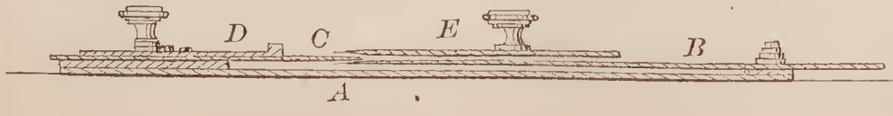


74991—W. H. Chamberlin—*Potato Digger.*

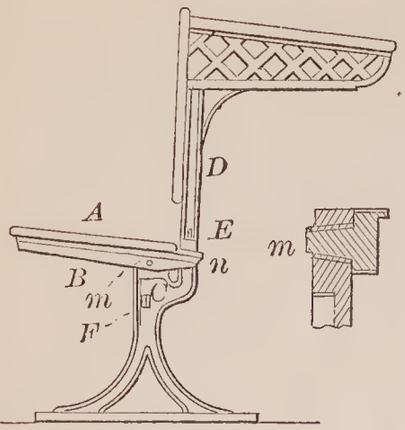


74992—T. C. Comstock—*Implement.*

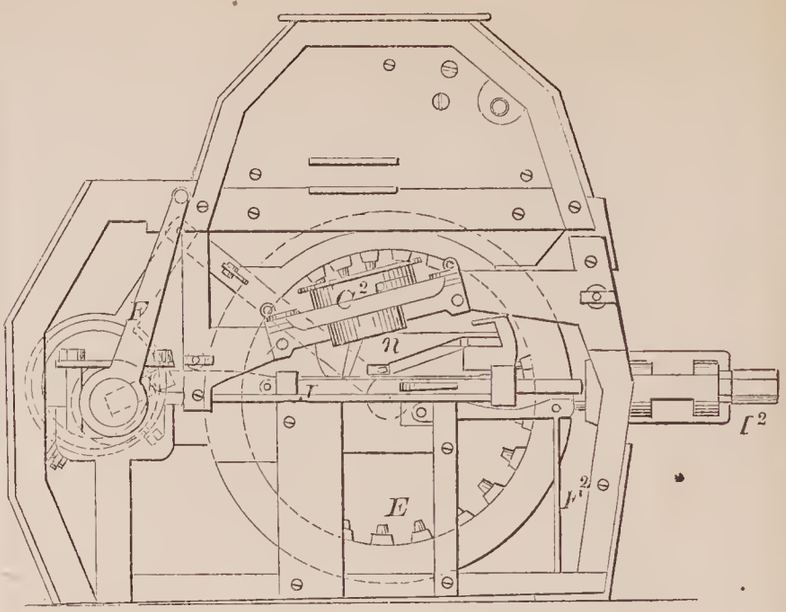
74960—Cawl, Corning & Wheeler—*Sewing Machine Plaiter.*

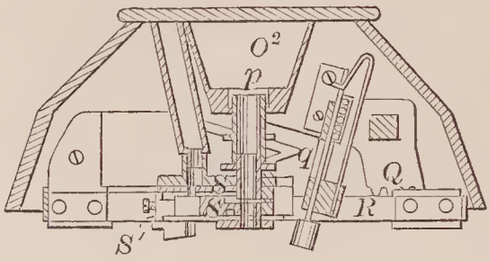


74993—I. Cook—*Adjustable Seat.*

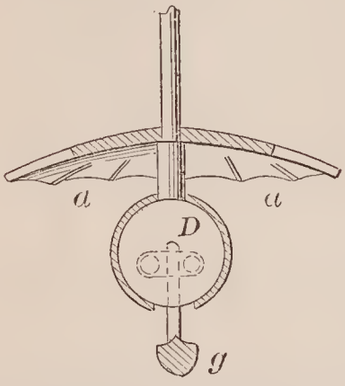


74994—T. J. Cranmer—*Self-Loading Battery Gun.*

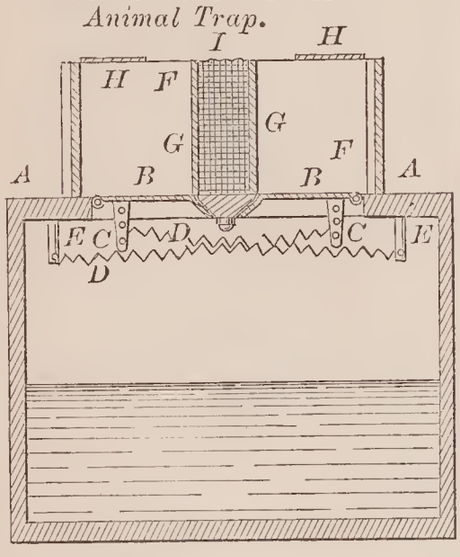


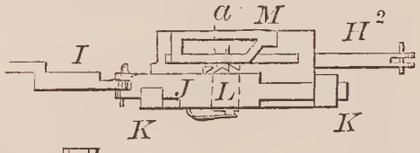


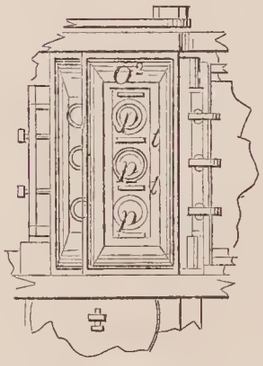
74995—R. Crawford—*Churn Dasher.*

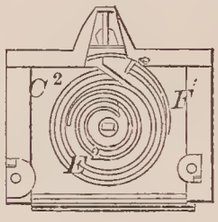


74998—J. M. Dearborn—*Animal Trap.*

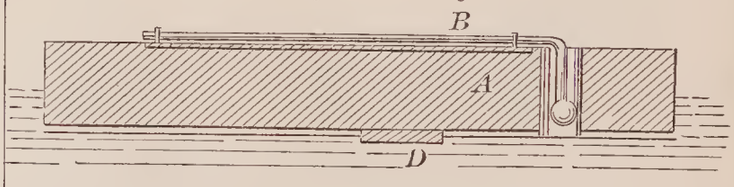




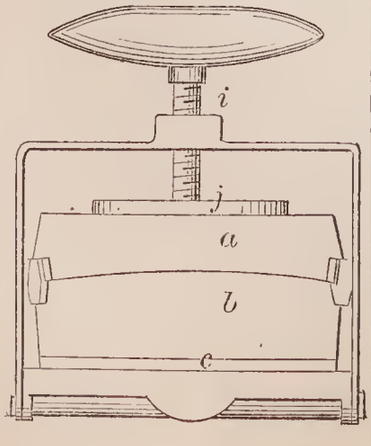




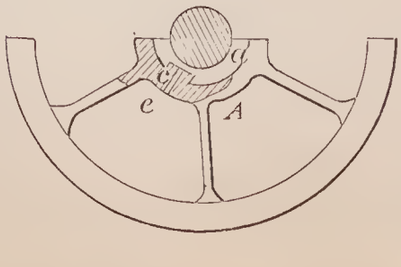
74997—D. B. Day—*Floating Thermometer.*



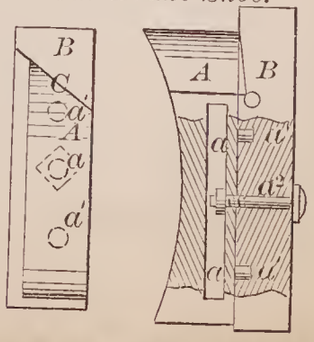
75000—G. E. Donham—*Dentists' Flask.*



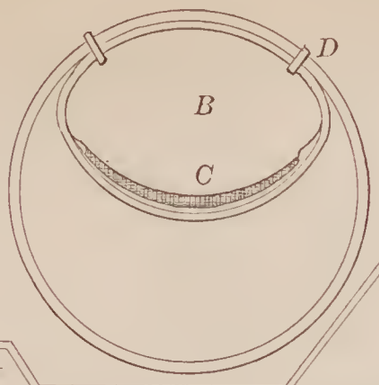
74999—G. Dock—*Car Wheel.*



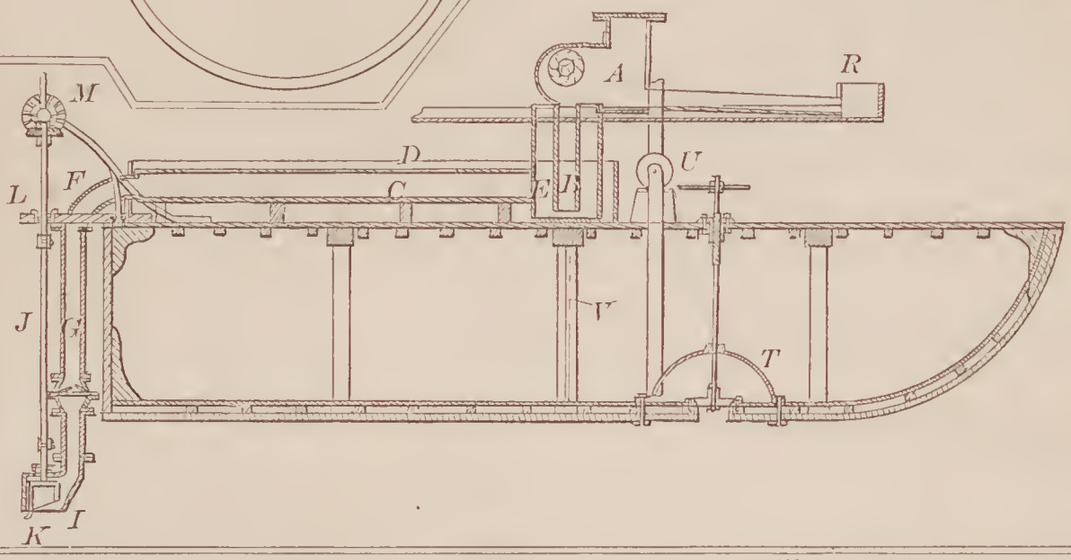
75001—G. Drake—*Car Brake Shoe.*



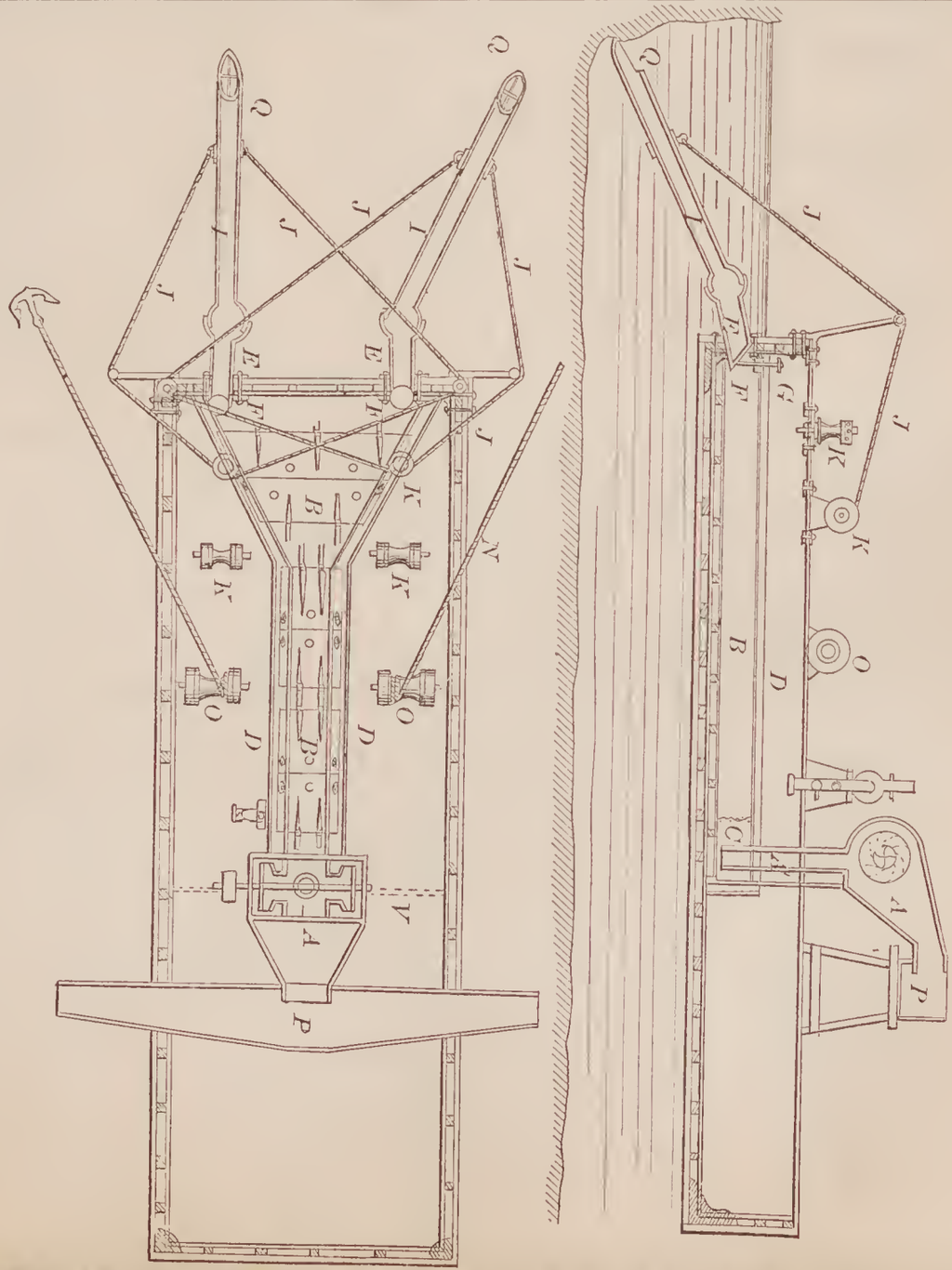
75002—W. Dunn—*Fluid Strainer.*



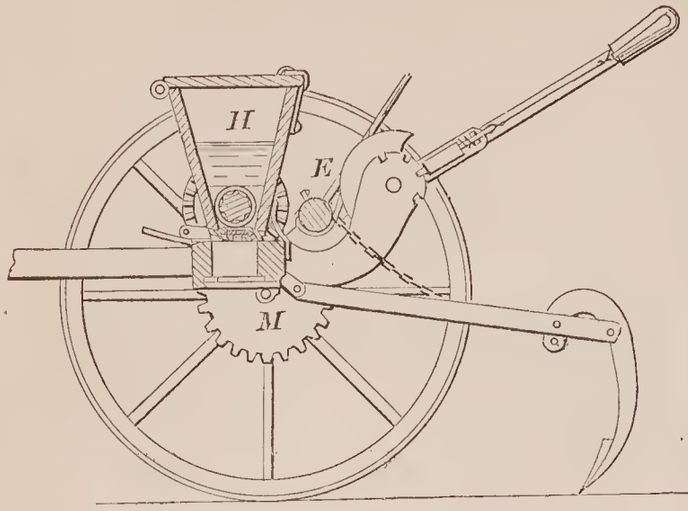
75003—A. Duvall—*Excavating under Water.*



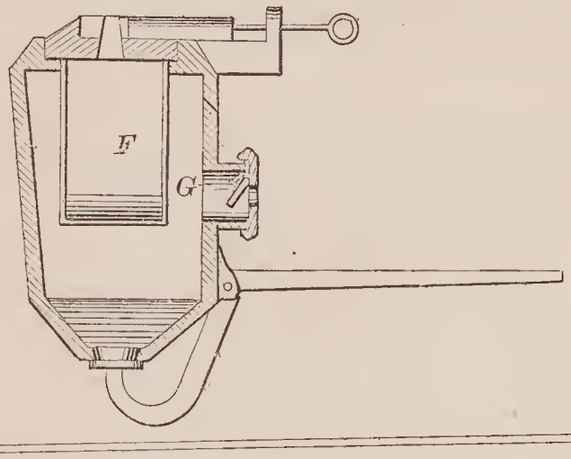
75004—A. Duvall—*Excavating under Water.*



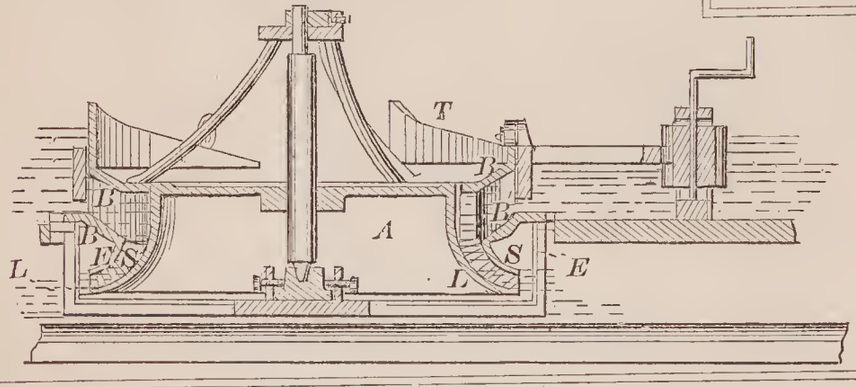
75005—Eggleston & Swain—*Seeding Machine.*



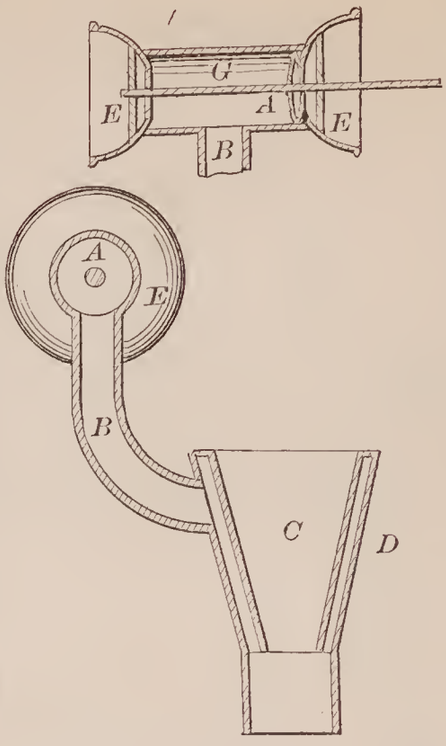
75007—B. Fish—*Tuyere.*



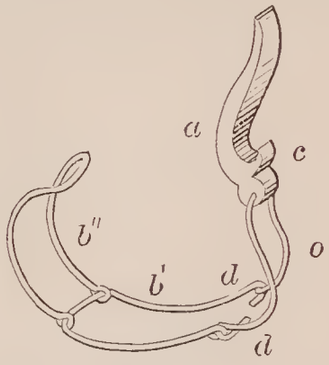
75009—M. D. Grow—*Water Wheel.*



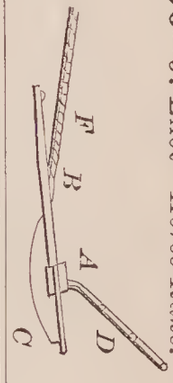
75010—E. Hainsworth—*For Ventilating Water Closets.*



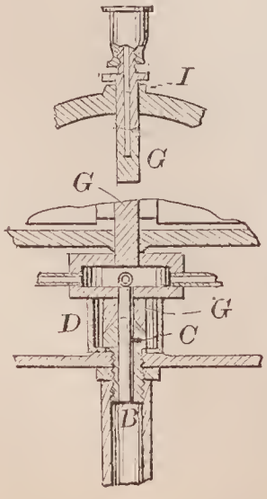
75008—L. H. Gano—*Bag Tie.*



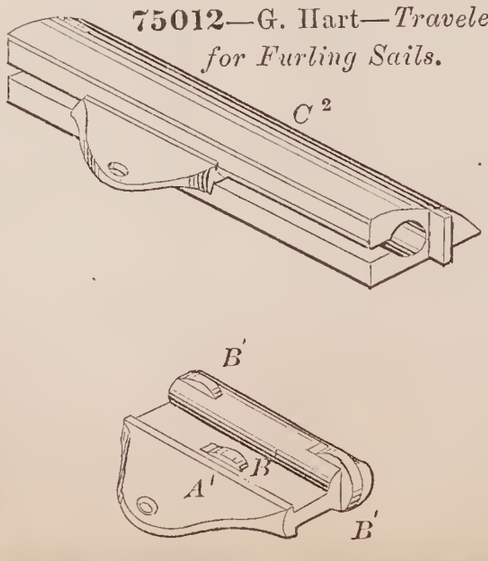
75006—J. Eliot—*Horse Rake.*



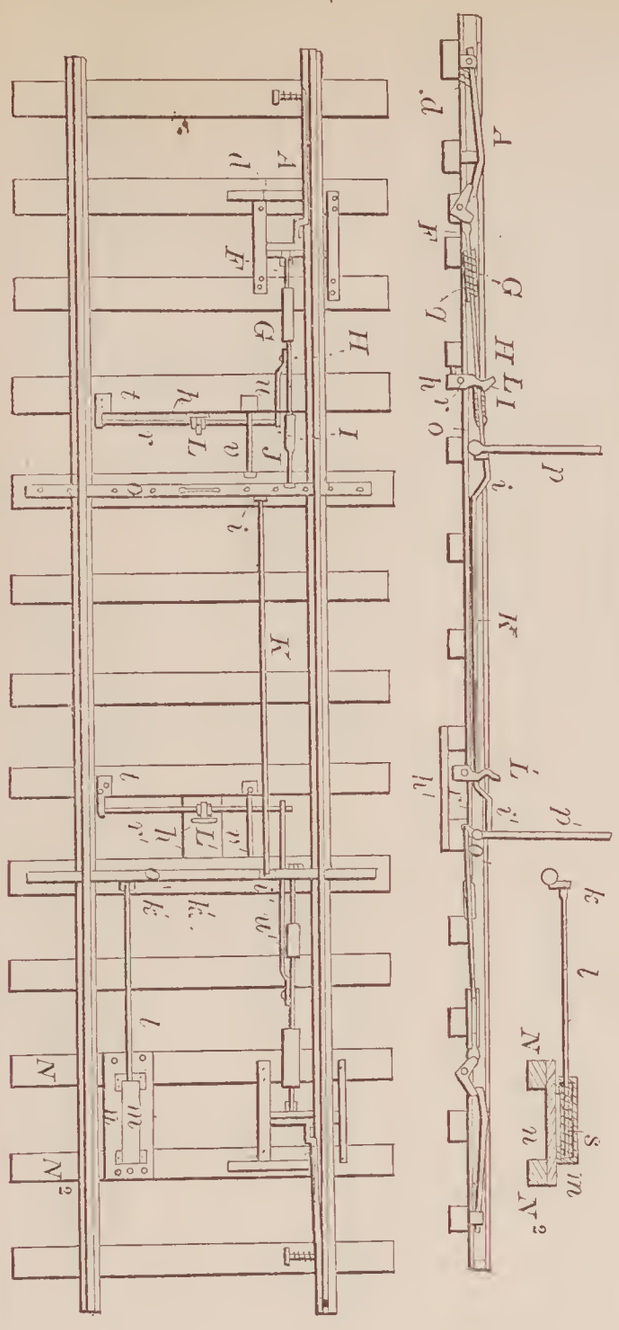
75011—J. Hainsworth—*Steam Blower.*



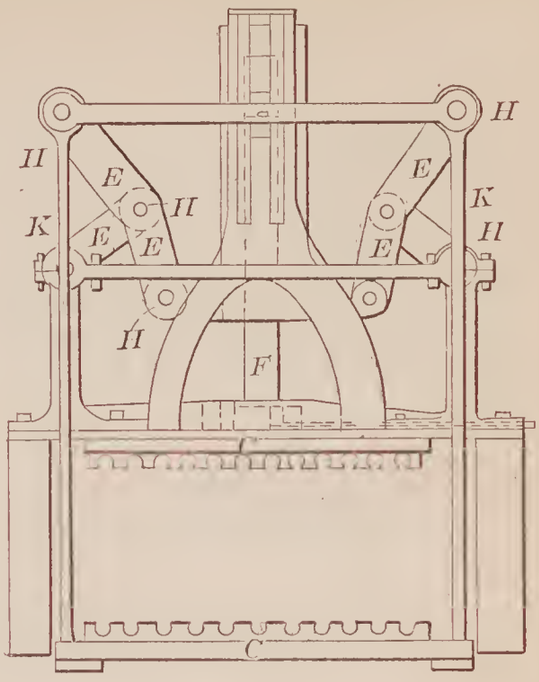
75012—G. Hart—*Traveler for Furling Sails.*



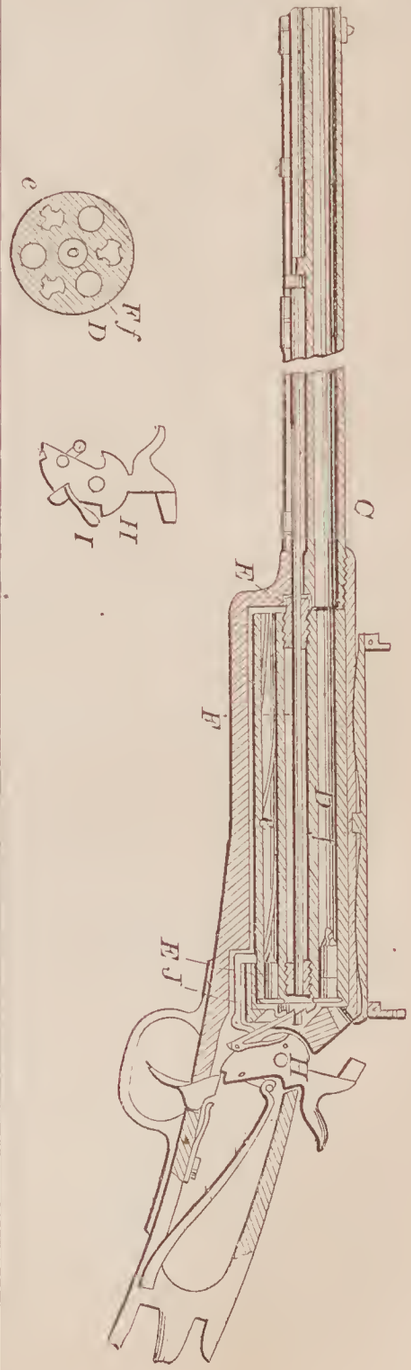
75013—A. Hartman—*Railroad Gate.*



75015—C. W. Holbrook—*Hydraulic Press.*

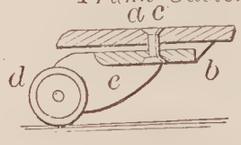


75016—G. Holman—*Revolving Fire Arm*



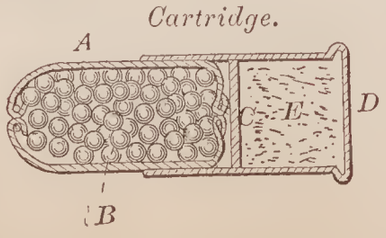
75014—G. G. Hickman—*Bottle*

75017—Horton & McGaw—*Trunk Caster.*

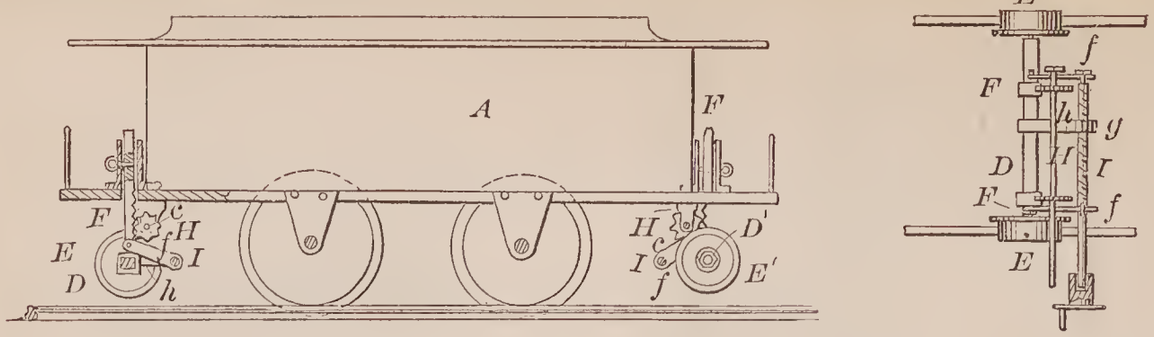


75018—E. Howard—*Dust Ring for Watches.*

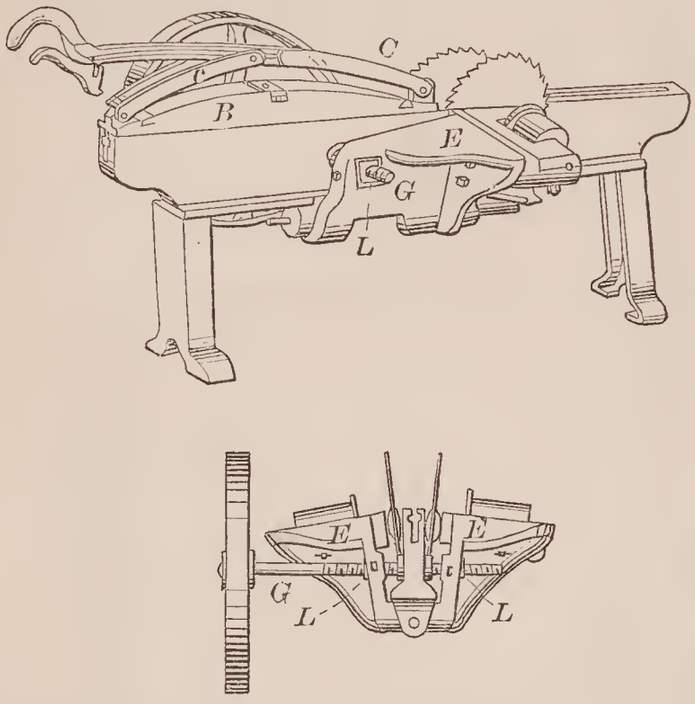
75019—W. O. Howard—*Shot Cartridge.*



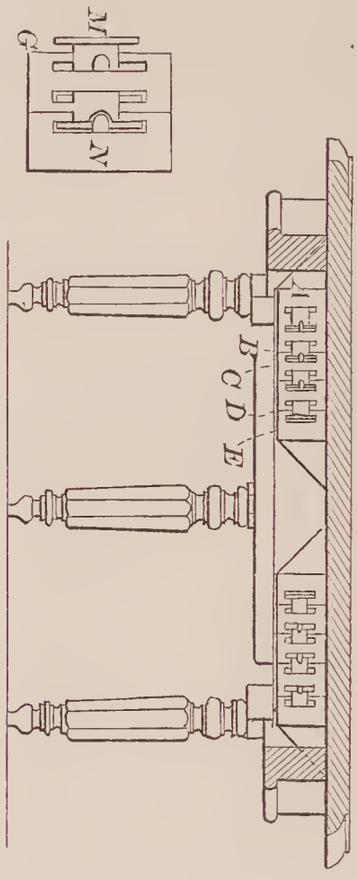
75020—C. Hurst—*Car Replacer.*



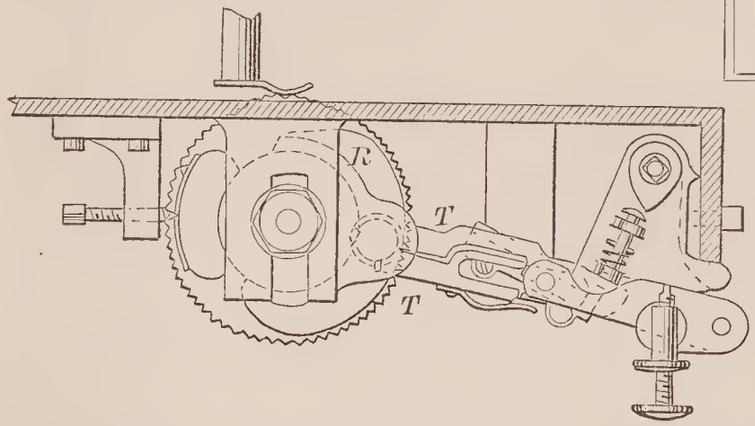
75021—C. B. Hutchinson—*For Jointing Staves.*



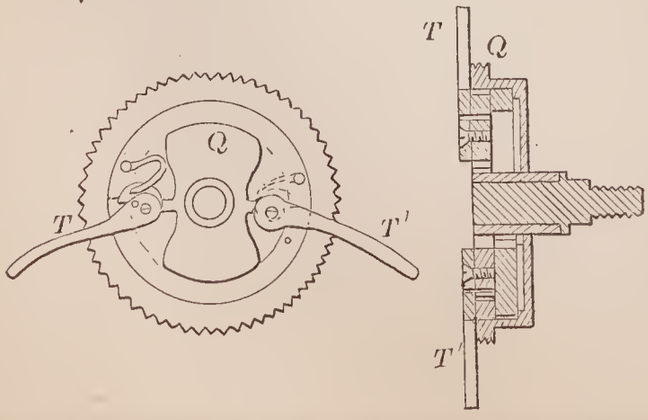
75022—N. Jenkins—*Extension Table Slide.*



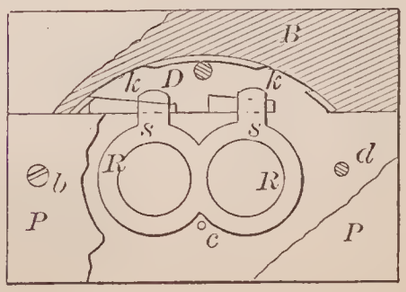
75023—J. T. Jones—*Friction Driver.*



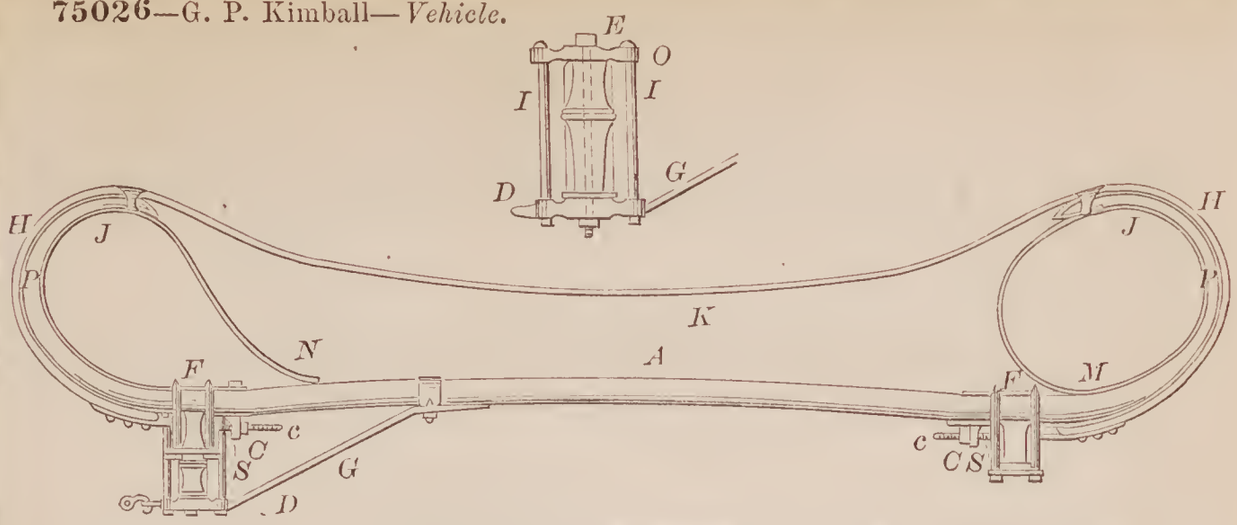
75024—J. T. Jones—*Friction Driver.*



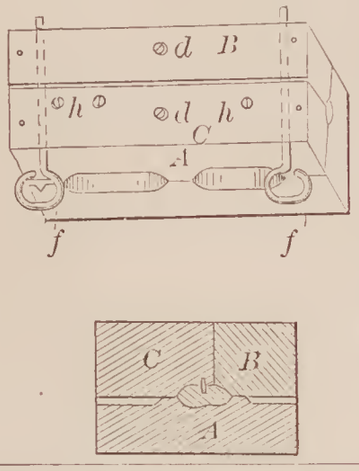
75025—W. Johnston—*Bedstead Fastening.*



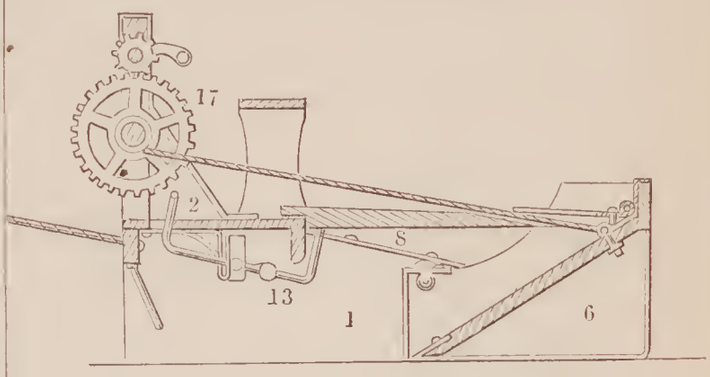
75026—G. P. Kimball—*Vehicle.*



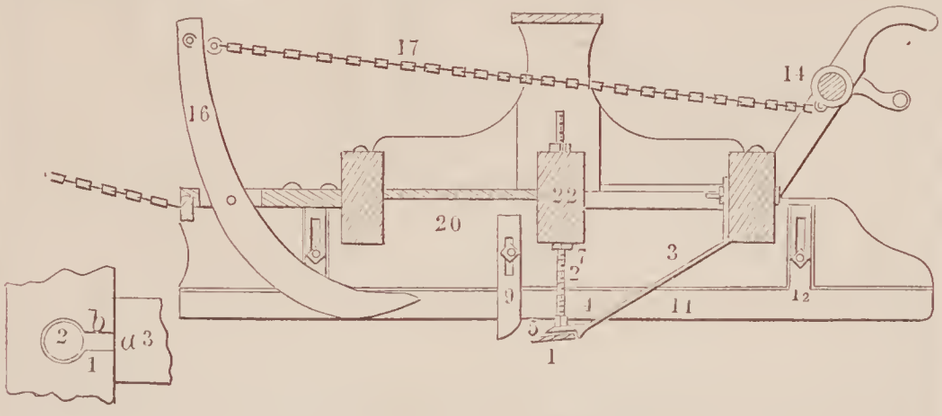
75027—A. A. Knowlton—*Mould for Artificial Teeth.*



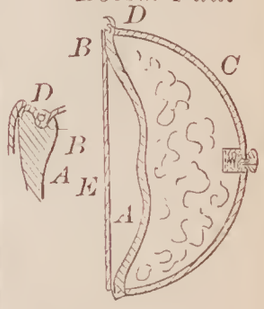
75028—S. Lewis—*Snow Clearer.*



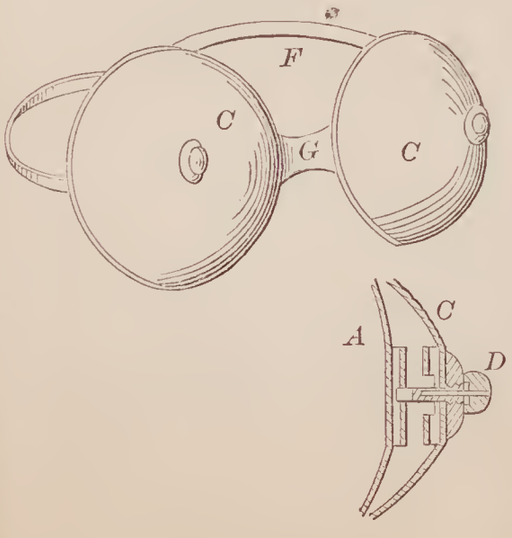
75029—S. Lewis—*Ice Planer.*



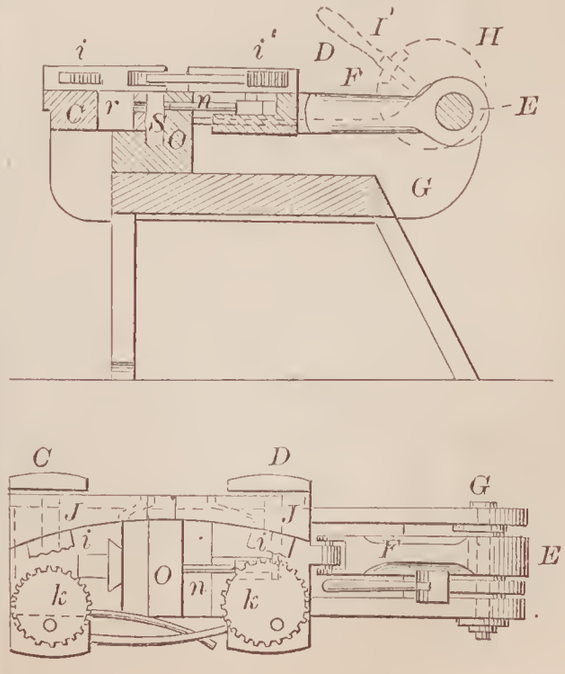
75031—H. W. Libbey—*Bosom Pad.*



75030—H. W. Libbey—*Bosom Pad.*

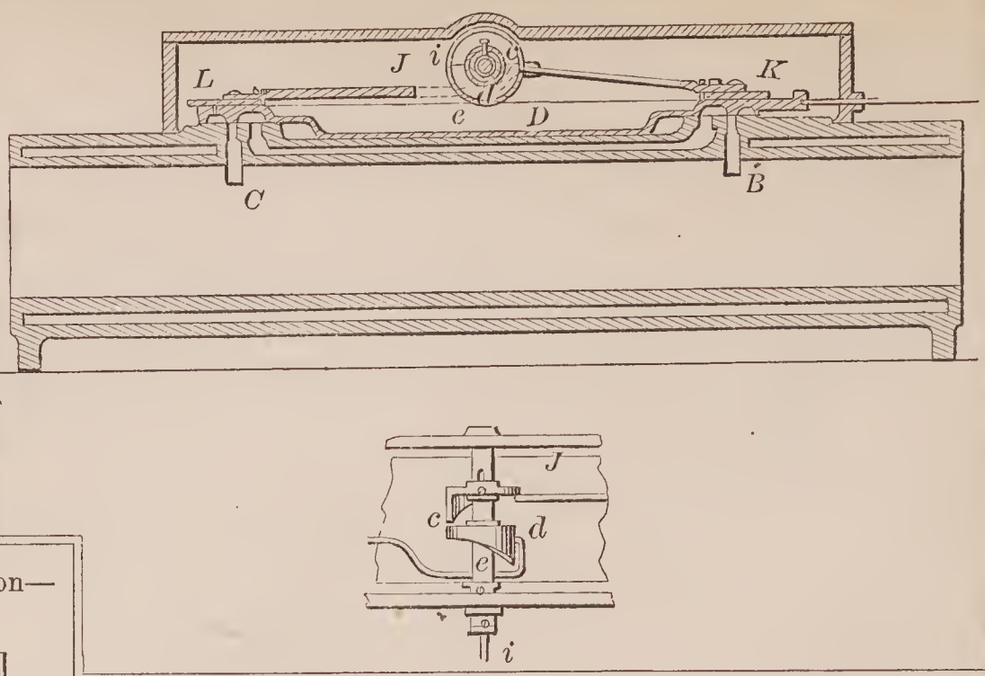


75032—S. E. Lockwood—*Punching and Upsetting Apparatus.*

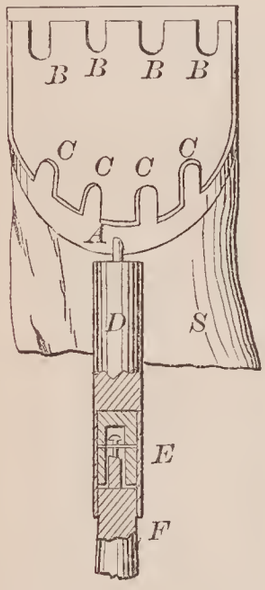


75033—J. A. J. Logan—*Reflector.*

75034—H. O. Lothrop—*Steam Engine Cut-off.*

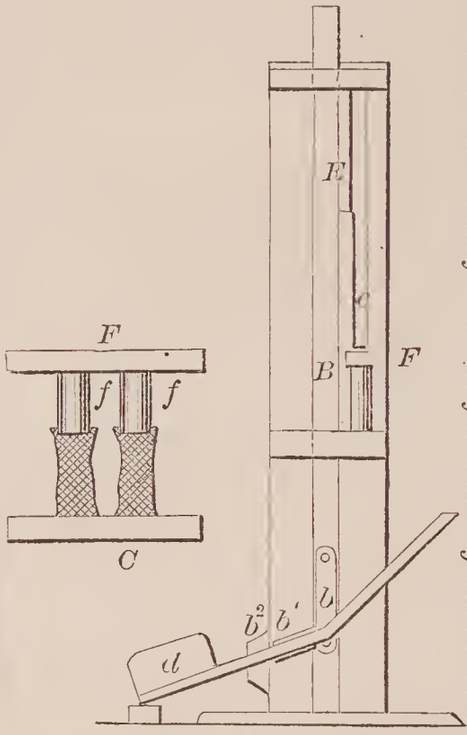


75035—V. H. Lyon—*Fruit Gatherer.*

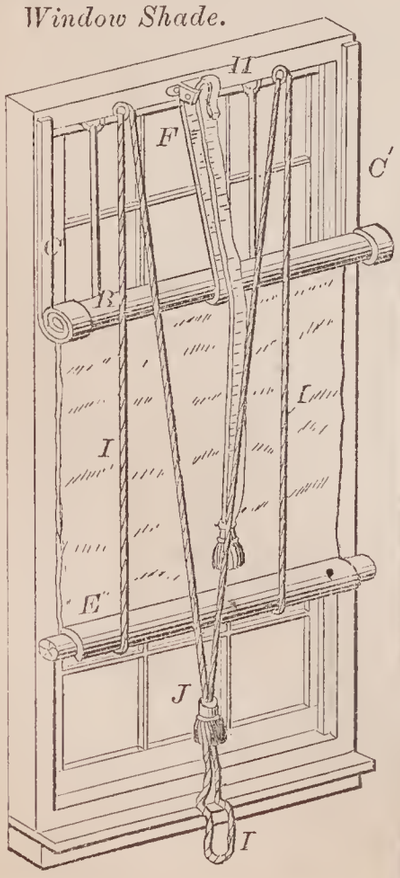


75036—C. Manheim—*Catamenial Sack.*

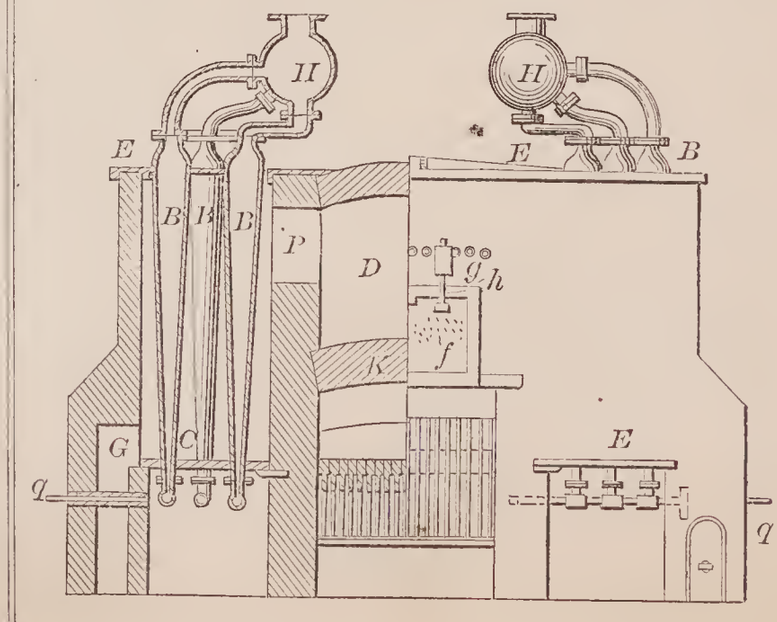
75038—D. C. Mayo—*Press for Packing Shred Tobacco.*



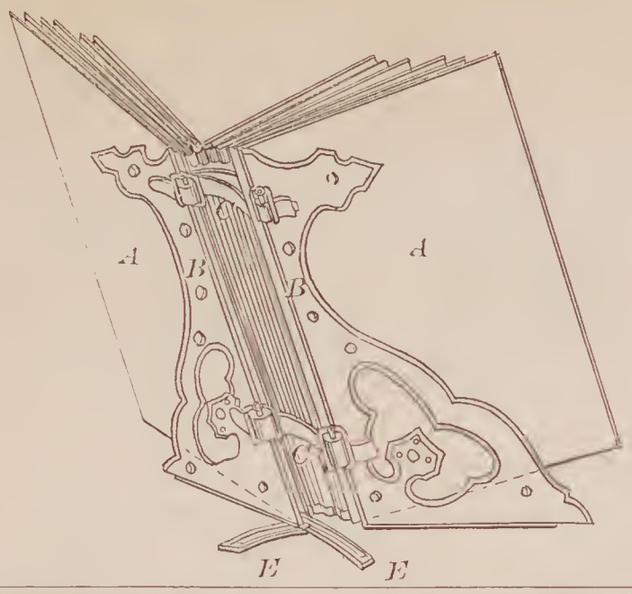
75037—C. G. Matchett—*Window Shade.*



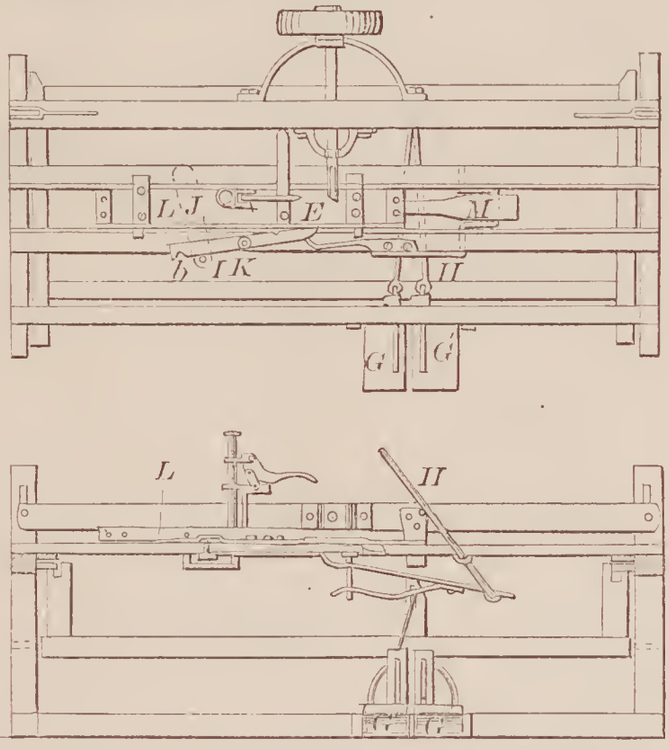
75039—D. N. Melvin—*Steam Generating Furnace.*



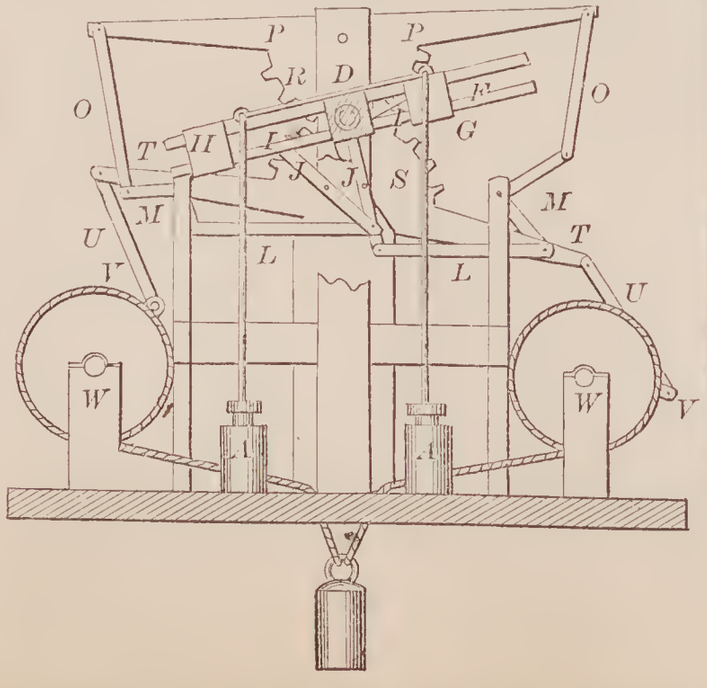
75040—W. Milliken—*Book Cover and Stand.*



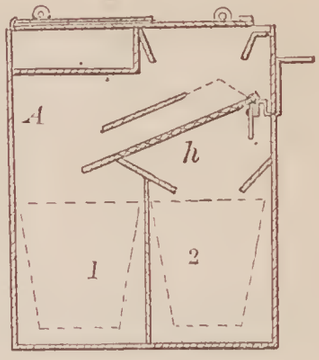
75041—B. F. Mohr—*For Boring Posts.*



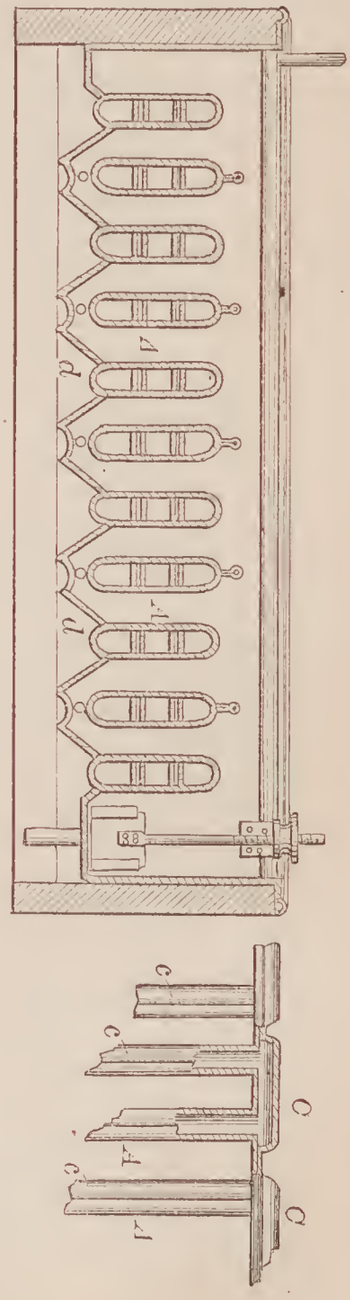
75042—H. Moore—*Air Condensing Apparatus.*



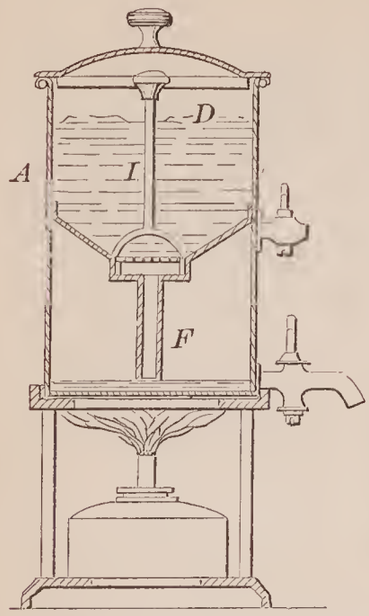
75043—D. Morrison—*Coal Sifter.*



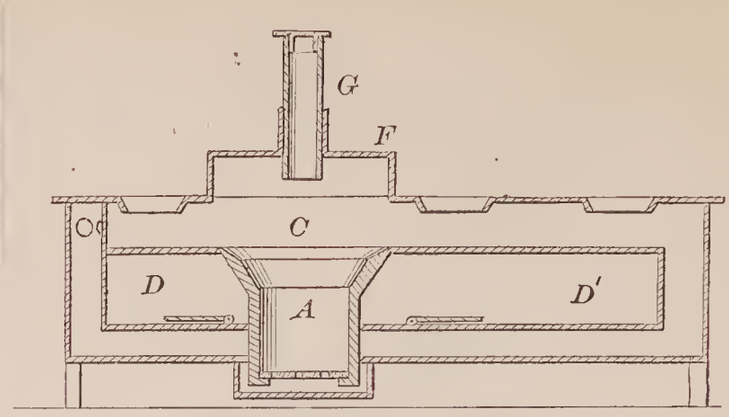
75044—R. Morton—*Liquid Cooler*



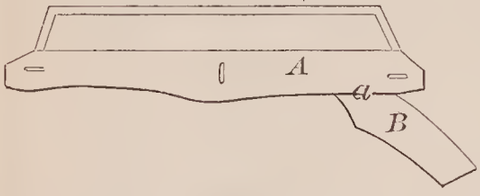
75045—J. Nason—*Coffee Pot.*



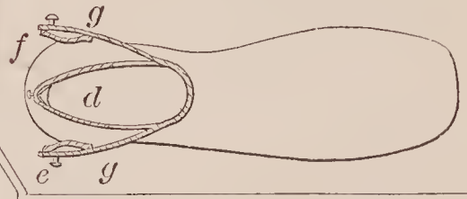
75046—B. Nott—*Cooking Stove and Range.*



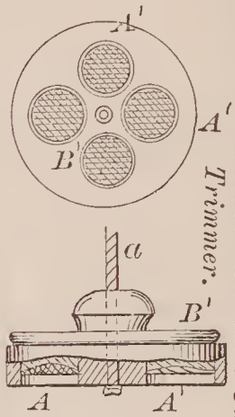
75047—G. F. Perkins—*Collar and Neck Tie.*



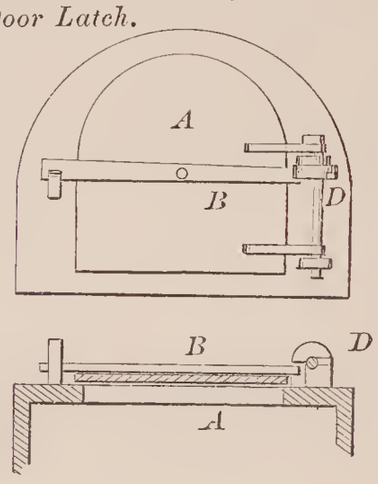
75048—C. Perley—*Shoe.*



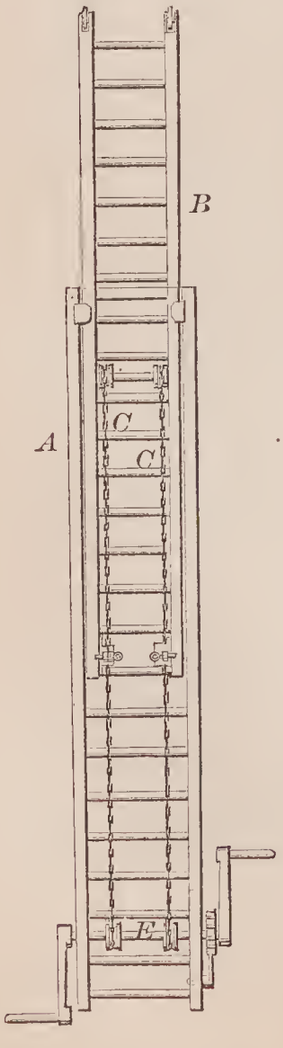
75049—H. Pernot—*Billiard Cue Trimmer.*



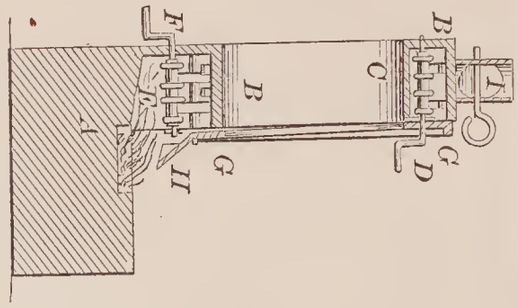
75053—J. L. Reilly—*Furnace Door Latch.*



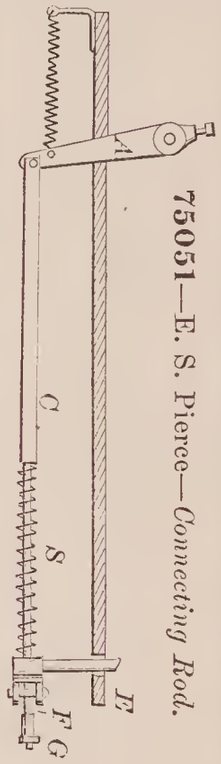
75052—B. Pine—*Extension Ladder.*



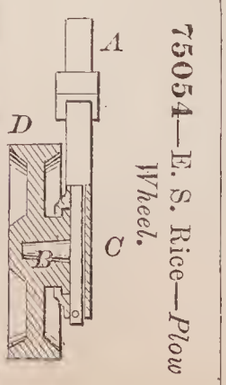
75050—E. Pierce—*Tire Heater.*



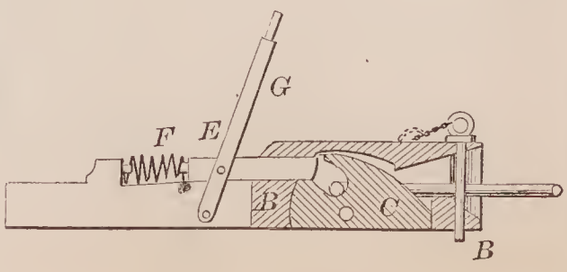
75051—E. S. Pierce—*Connecting Rod.*



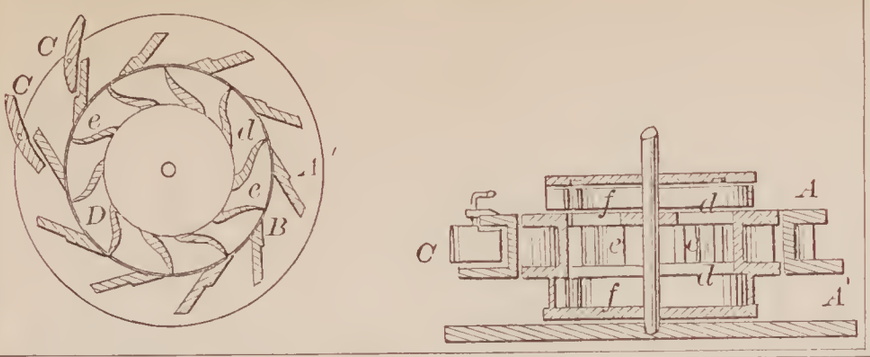
75054—E. S. Rice—*Plow Wheel.*



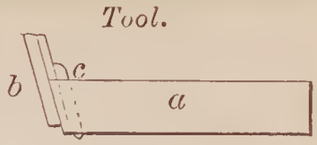
75055—S. O. Rogers, Jr.—*Car Coupling.*



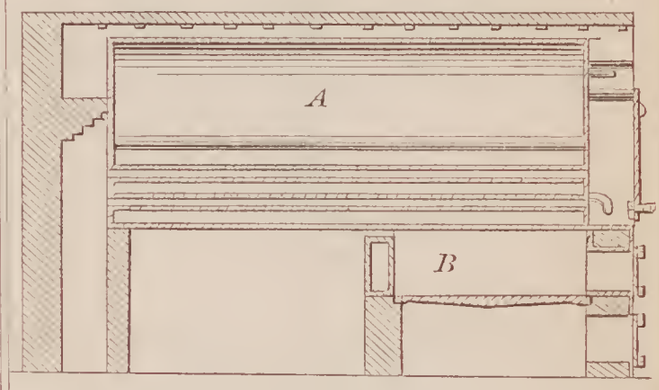
75056—Rose & Wright—*Water Wheel.*



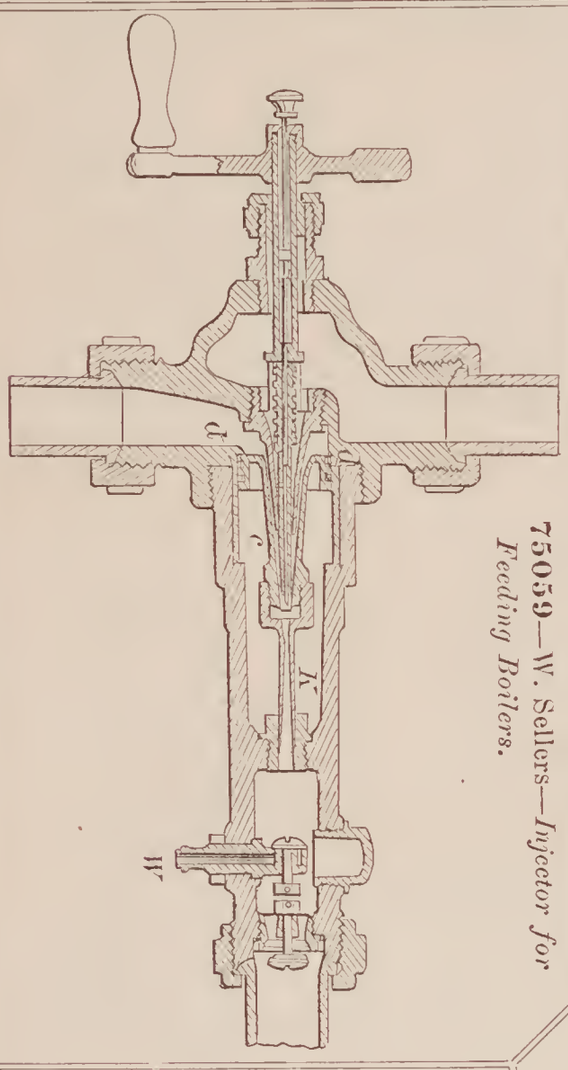
75060—T. Shaw—*Lathe Tool.*



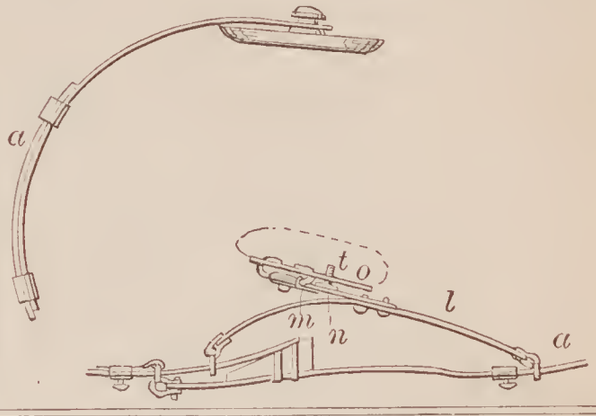
75057—S. Sawyer—*Steam Generator.*



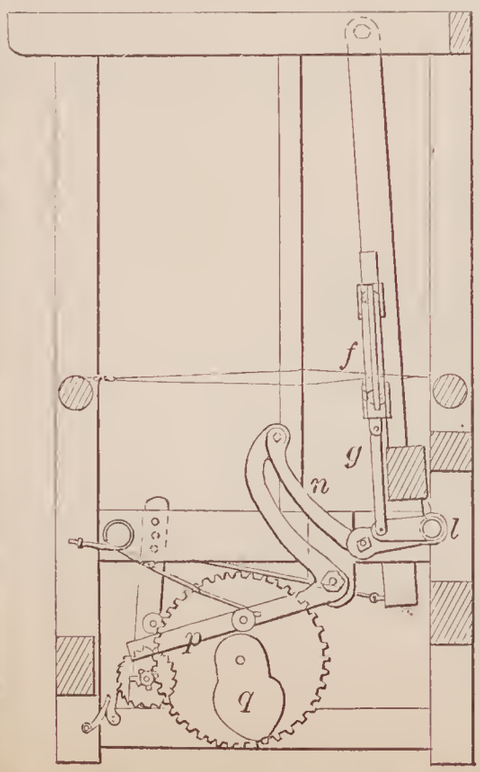
75059—W. Sellers—*Injector for Feeding Boilers.*

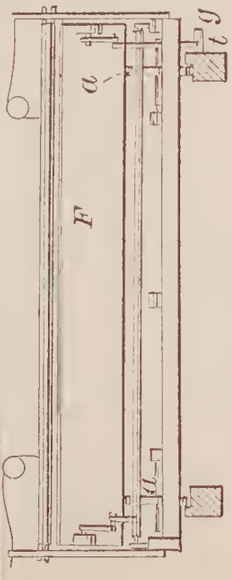


75061—J. A. Sherman—*Truss.*

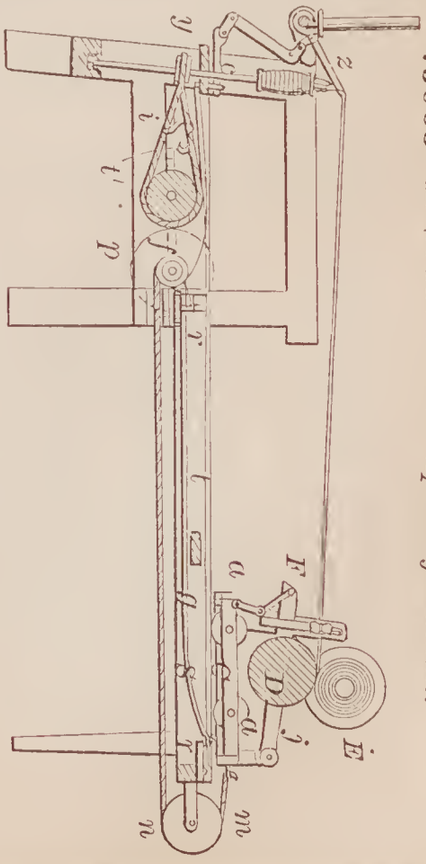


75062—Silbermann & Unger—*Loom.*

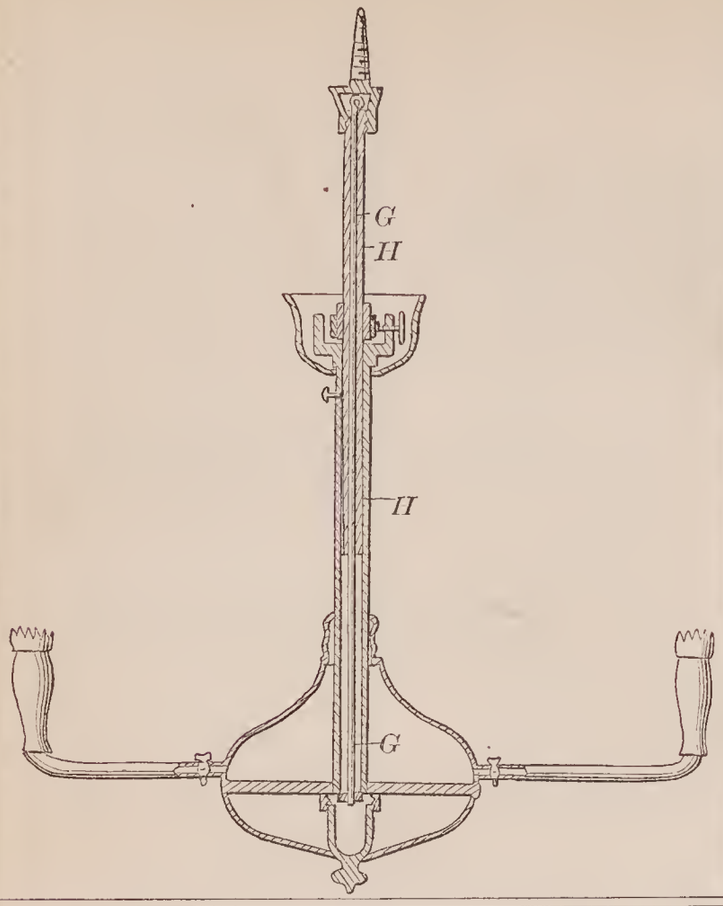




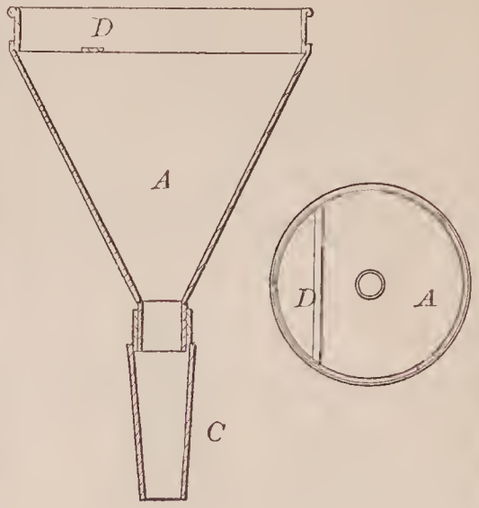
75063—A. W. Silvis—*Hand Spinning Machine.*



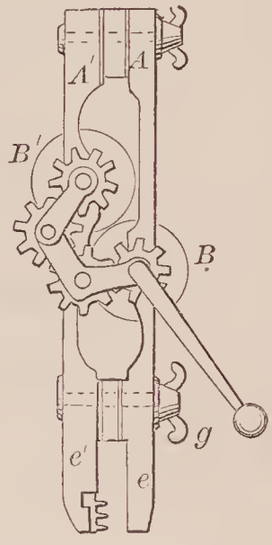
75064—R. J. Skinner—*Chandelier.*



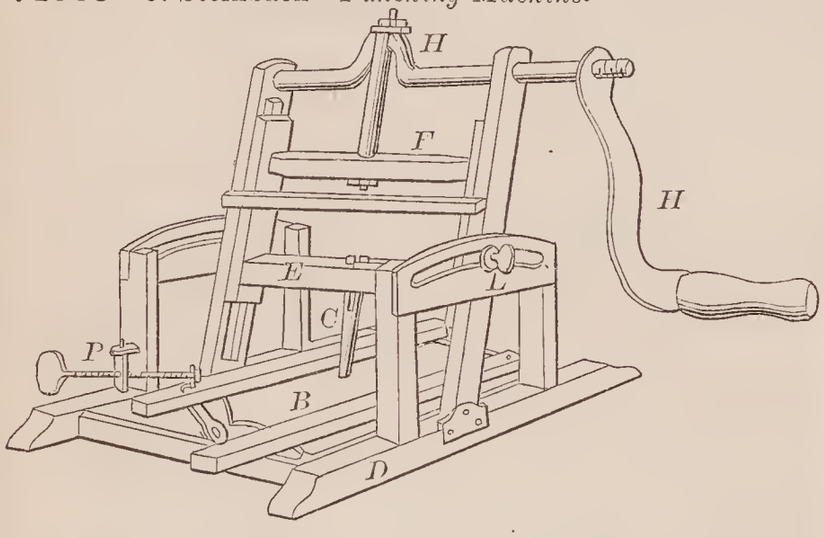
74065—T. W. Slade—*Funnel.*



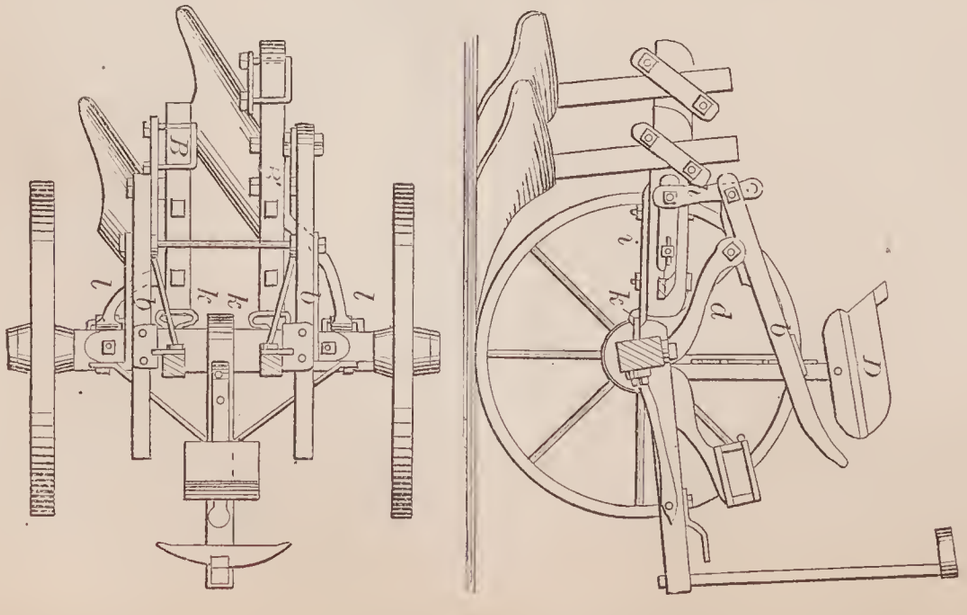
75066—H. E. Smith—*Clothes Wringer.*



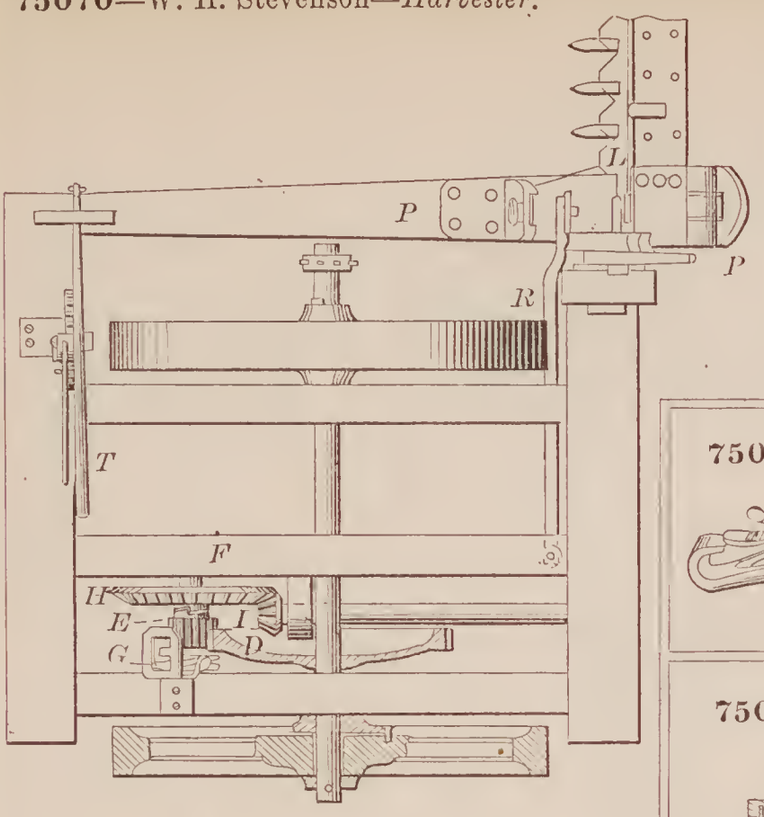
74068—C. Steinbach—*Punching Machine.*

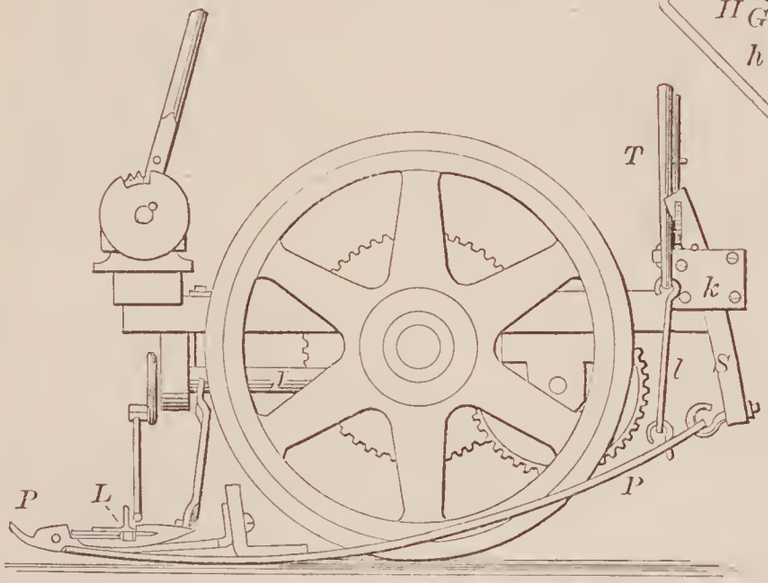


75069—G. Steinegger—*Gang Plow.*

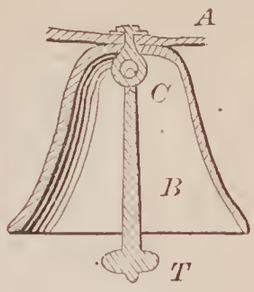


75070—W. H. Stevenson—*Harvester.*

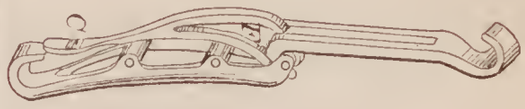




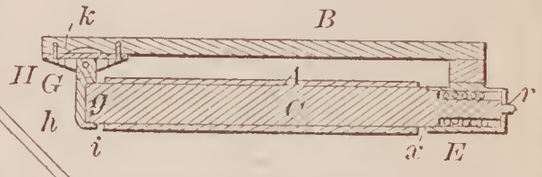
75071—G. M. Strong—*Sleigh Bell.*



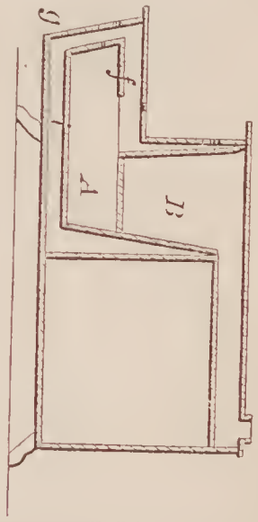
75074—A. Sweetland—*Hame Fastener.*



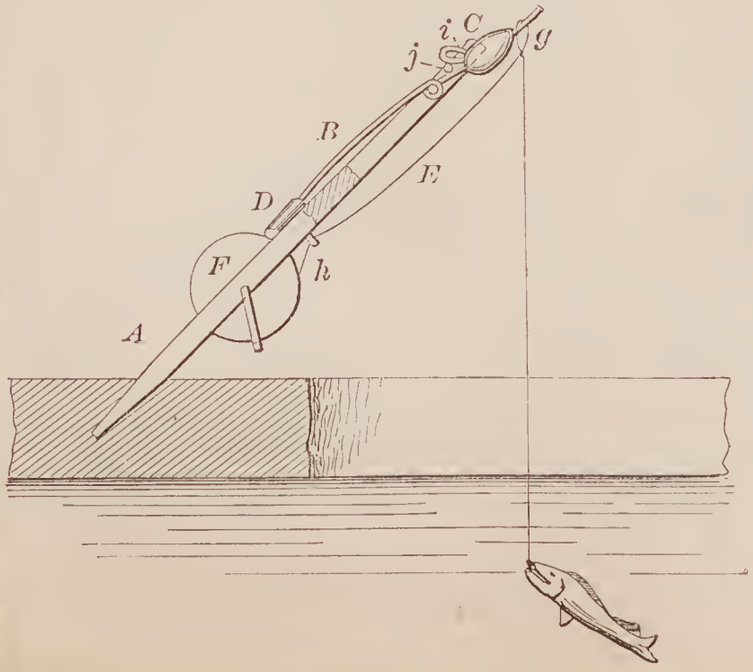
75072—A. Studley—*Curtain Fixture.*



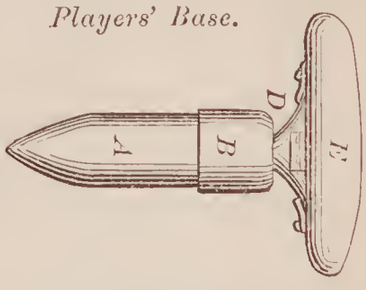
75073—G. W. Swett—*Cooking Stove Ash Pan.*



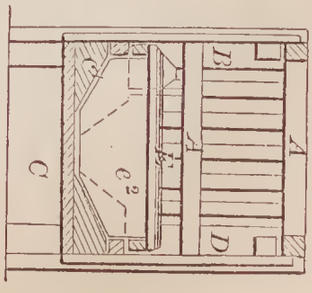
75075—D. C. Talbot—*Fishing Tackle.*



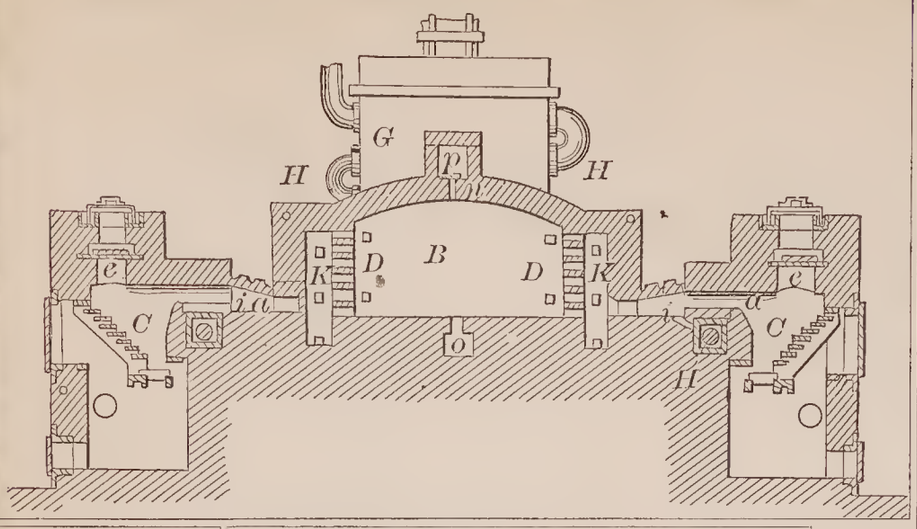
75076—E. D. Taylor—*Ball Players' Base.*



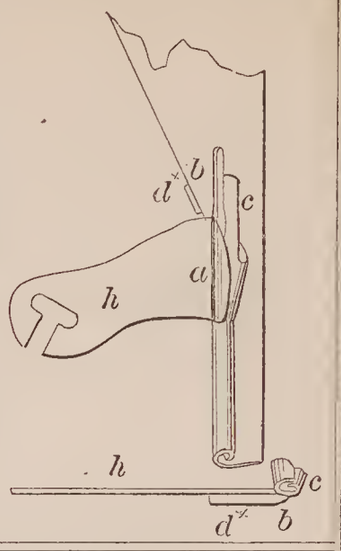
75077—J. Taylor—*Sheep Rack.*



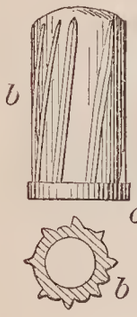
75078—A. Thoma—*Furnace for Decarbonizing Pig Iron.*



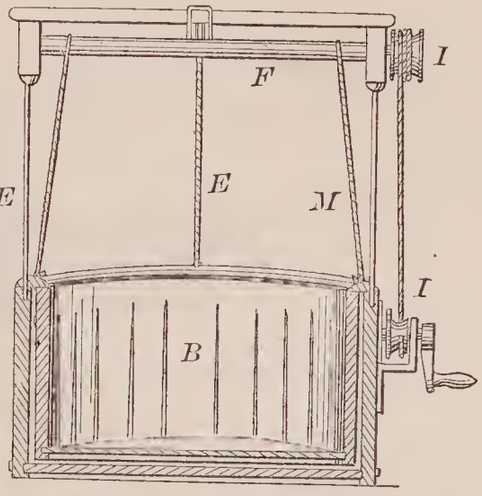
75079—W. H. Thomas—*Sewing Machine Hemmer.*



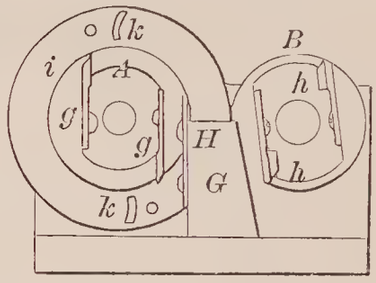
75080—A. C. Twining—*Castor Socket.*



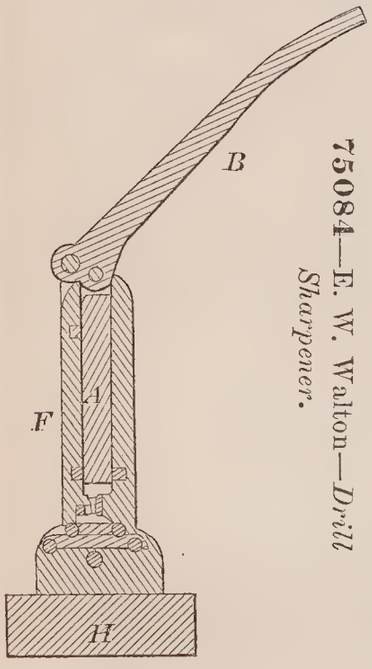
75081—Vine & Jubb—*Dyers' Vat.*



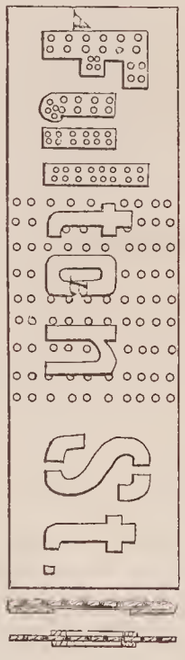
75082—I. S. Waite—*For Finishing Card Handles.*



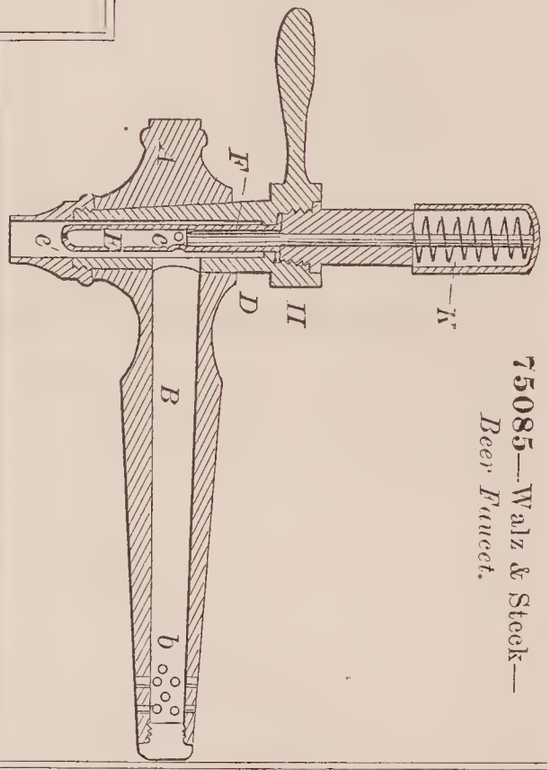
75084—E. W. Walton—*Drill Sharpener.*



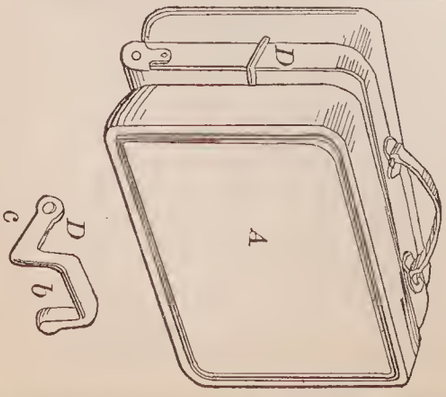
75086—W. P. Ware—*Street Lamp Sign.*



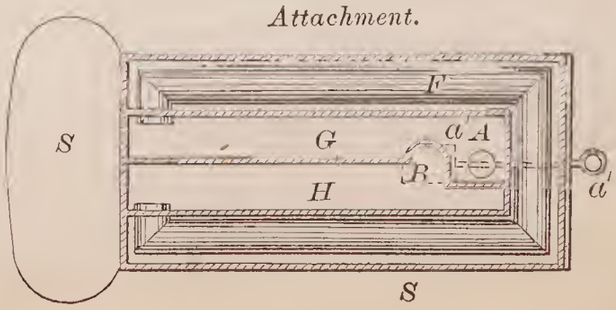
75085—Walz & Stock—*Beer Faucet.*



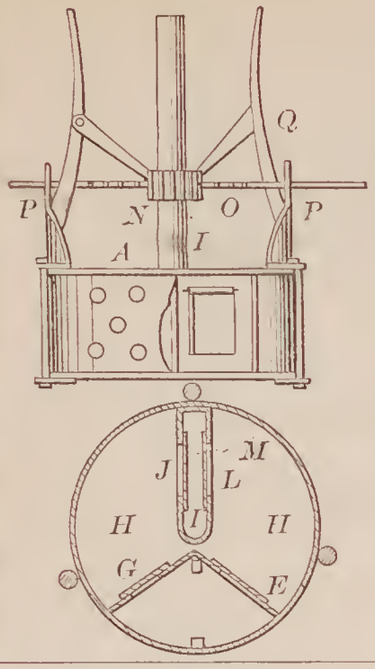
75083—W. Wakenshaw—*Traveling Bag.*



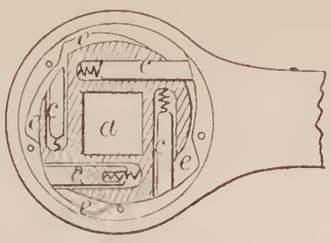
75087—B. J. Watson—*Stove Heat Radiating Attachment.*



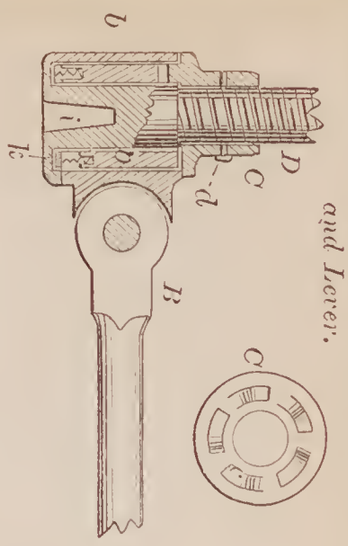
75088—J. R. Weisiger—*Pump.*



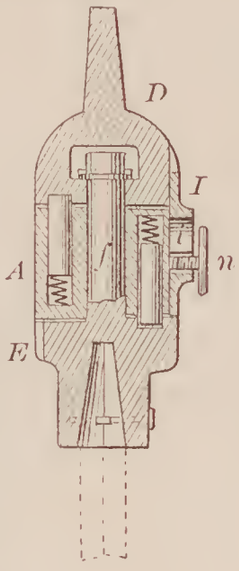
75089—T. A. Weston—*Ratchet Head and Lever.*



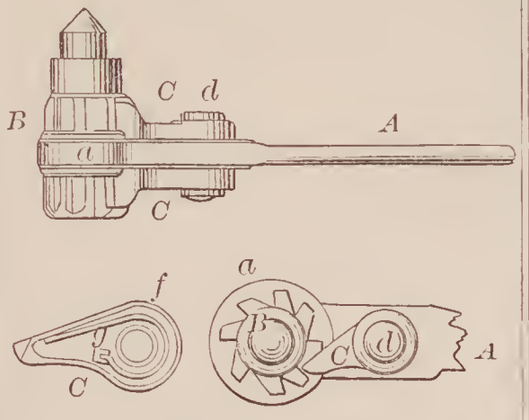
75090—T. A. Weston—*Ratchet Head and Lever.*



75091—T. A. Weston—*Ratchet Brace.*

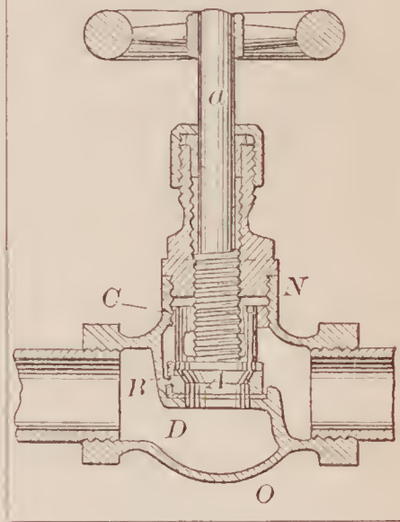


75092—T. A. Weston—*Ratchet Brace or Lever.*

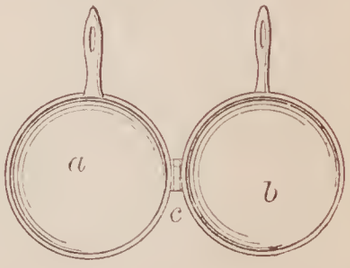


75093—T. A. Weston—*Ratchet Brace Lever.*

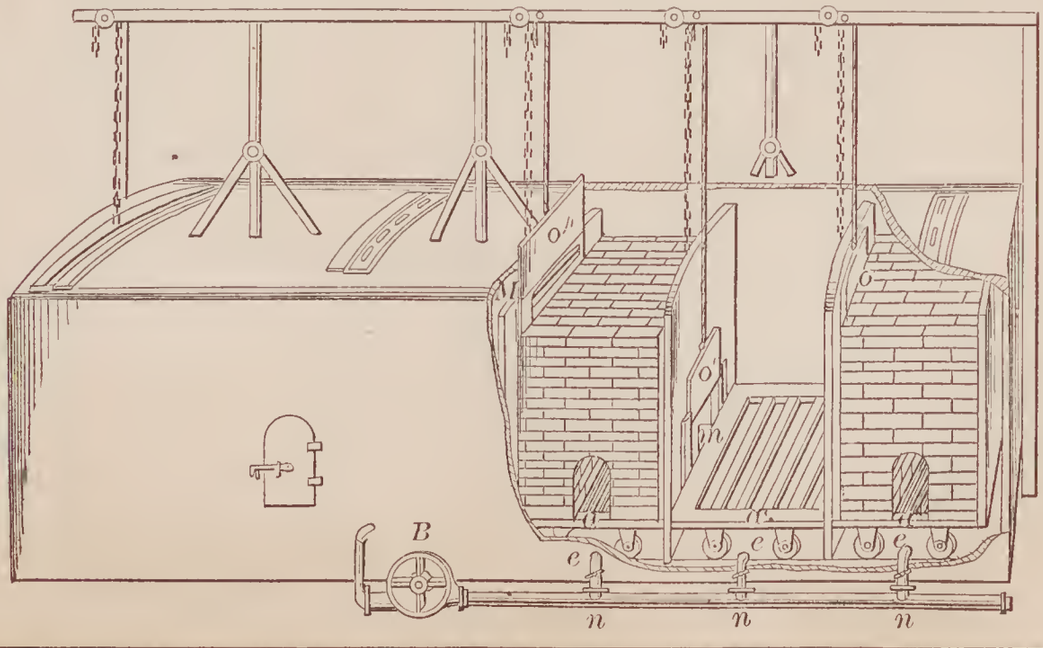
75094—S. H. Whitaker—*Globe Valve.*



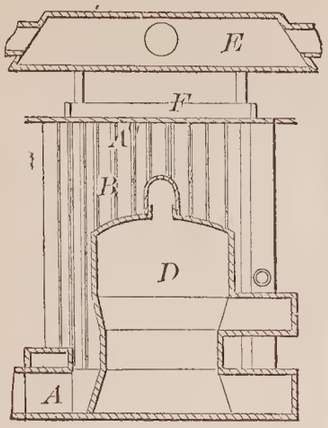
75095—R. C. Whitehouse—*Frying Pan.*

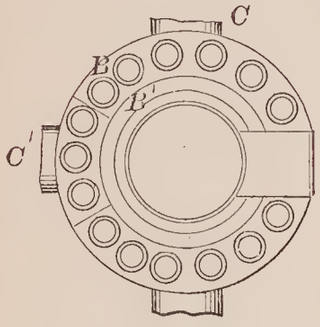


75096—H. D. Whittemore—*Brick Kiln.*

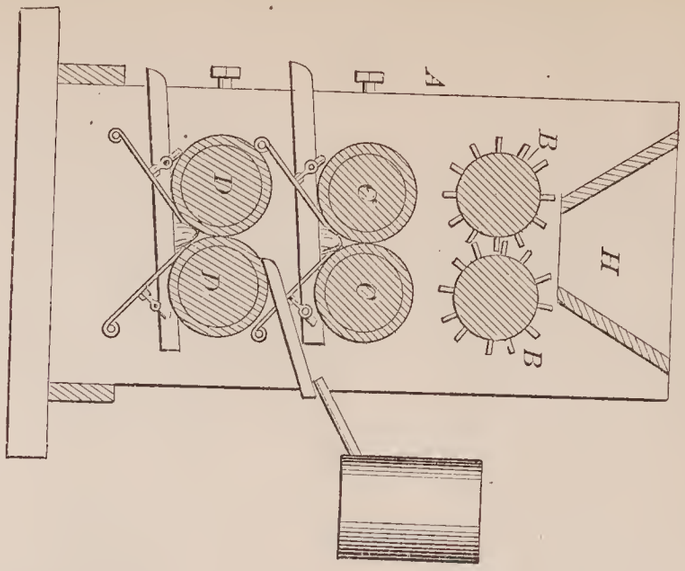


75097—C. F. Whorf—*Hot Air Furnace.*

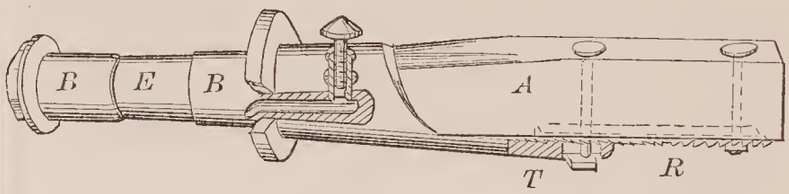


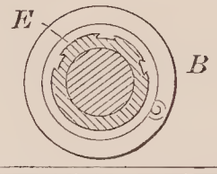


75101—J. D. Willoughby—*Cider Mill.*

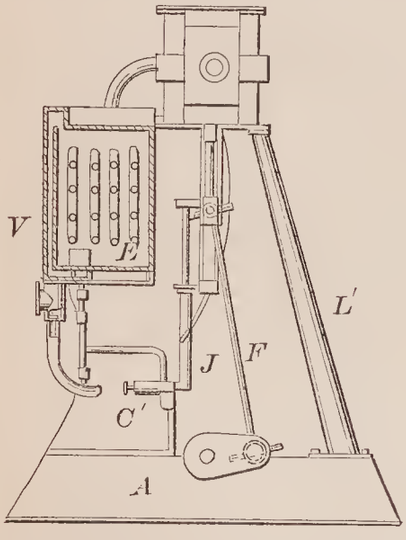


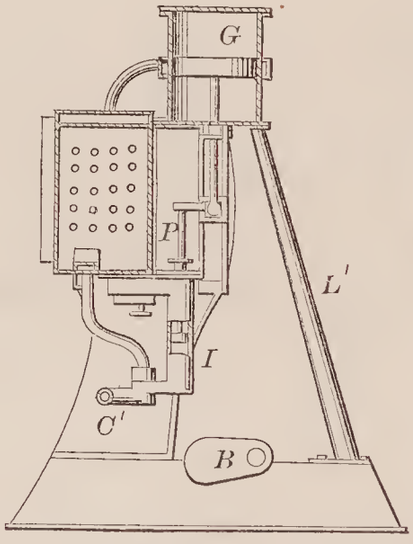
75099—J. A. Williams—*Vehicle Axle.*



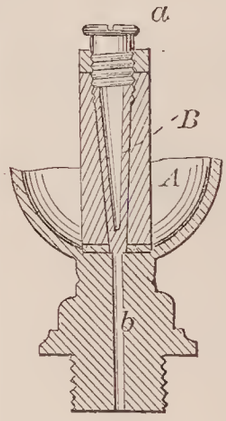


75102—I. S. Wilson—*Surface Condenser.*

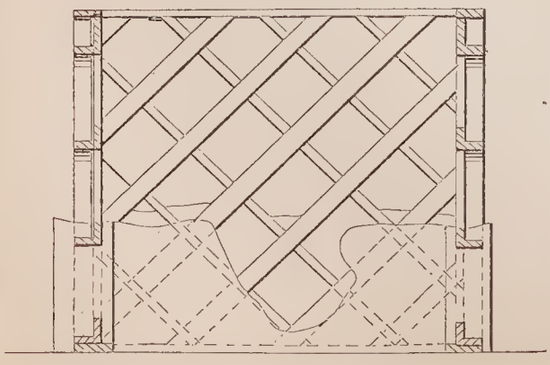




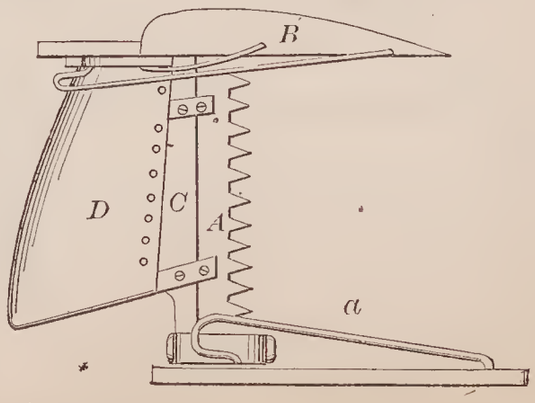
75100—N. B. Williams—*Oil Cup.*



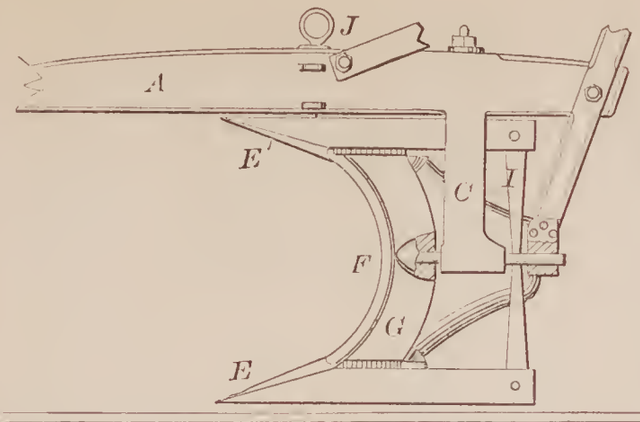
75098—C. Williams—*Construction of Walls of Buildings.*



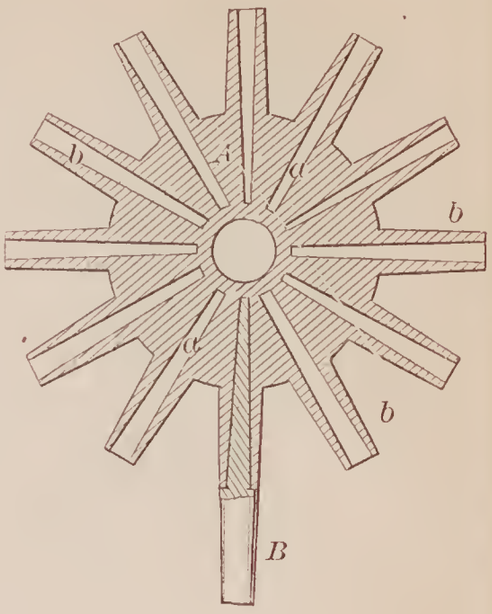
75103—R. C. Wrenn—*Hemp Harvester.*



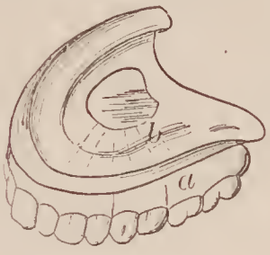
75104—H. B. Abbott—*Hillside Plow.*



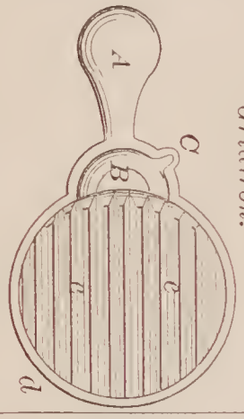
75105—S. Allaire—*Carriage Hub.*



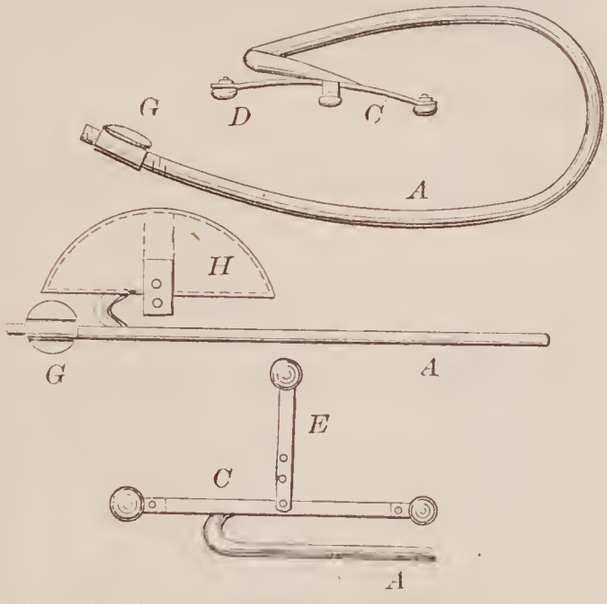
75106—W. Allender—*Aluminum Teeth Plate.*



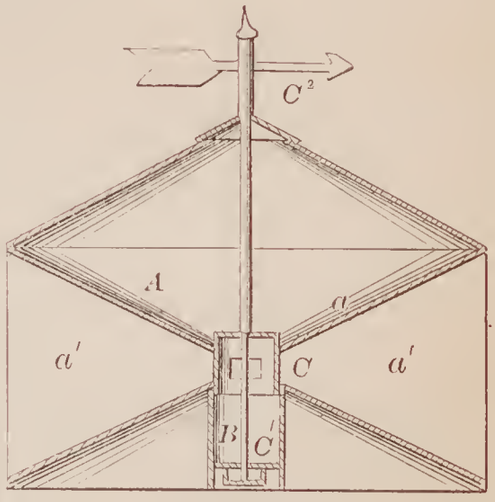
75107—W. Andrews—*Griddron.*



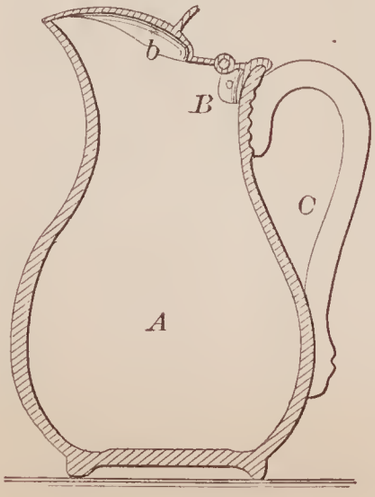
75108—G. W. Antisdale—*Truss and Supporter.*



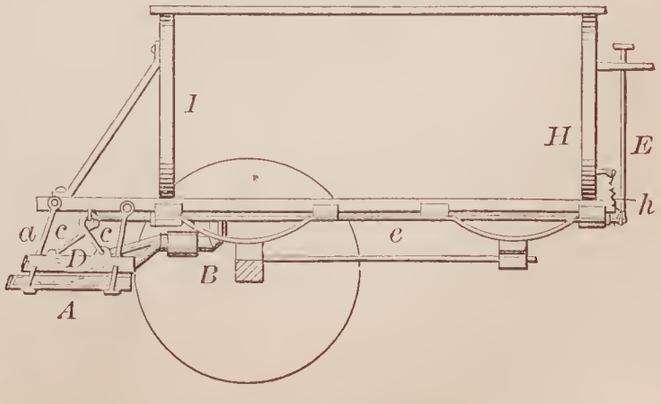
75109—C. W. Atkeson—*Cowl.*



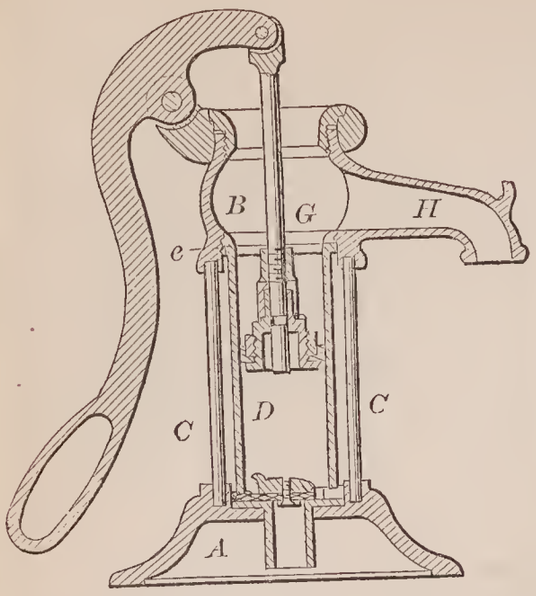
75110—J. S. & T. B. Atterbury—*Glassware.*



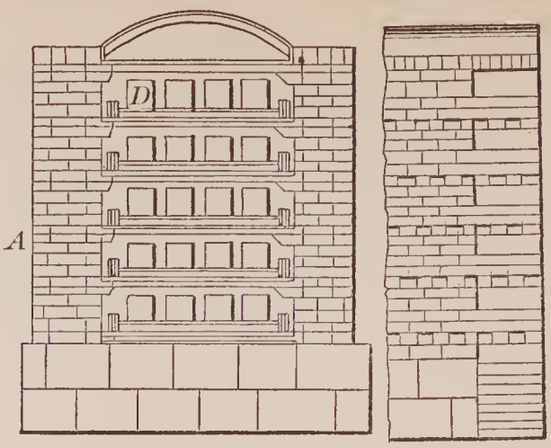
75111—L. F. Bancroft—*Street Sprinkler.*



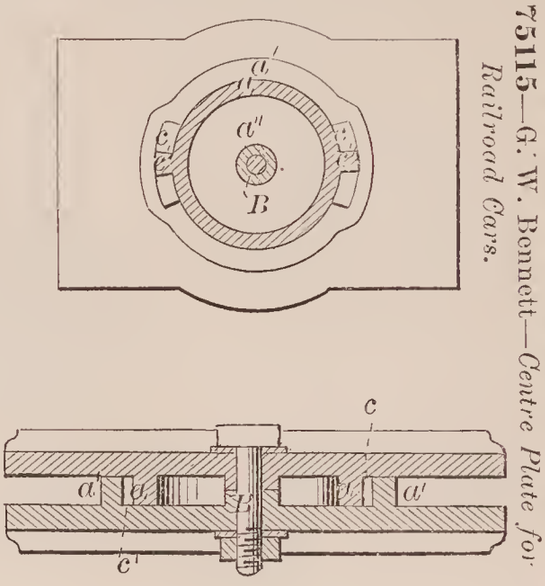
75112—J. S. Barden—*Pump.*



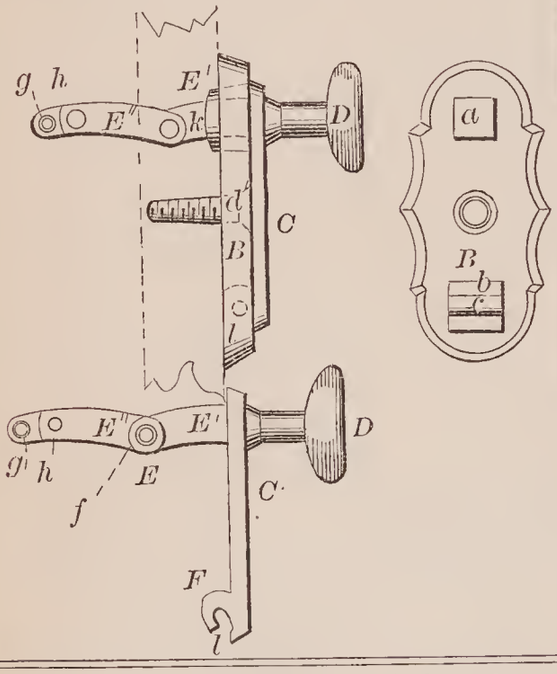
75113—D. Barker—*Dryer.*



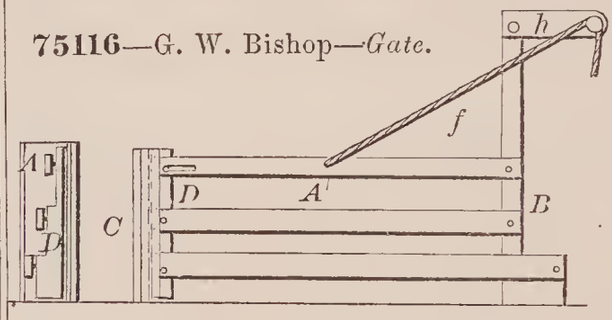
75115—G. W. Bennett—*Centre Plate for Railroad Cars.*



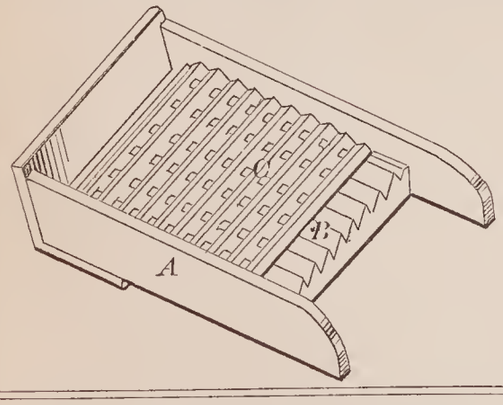
75118—Bonsall & Hillebrand—*Bell Pull.*



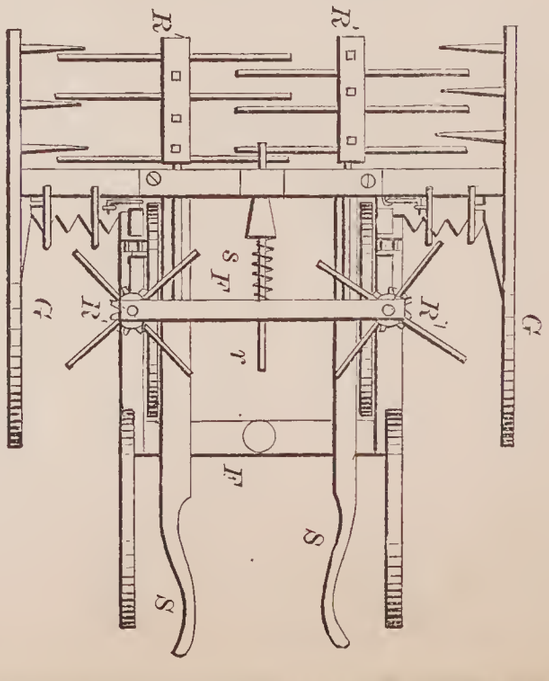
75116—G. W. Bishop—*Gate.*



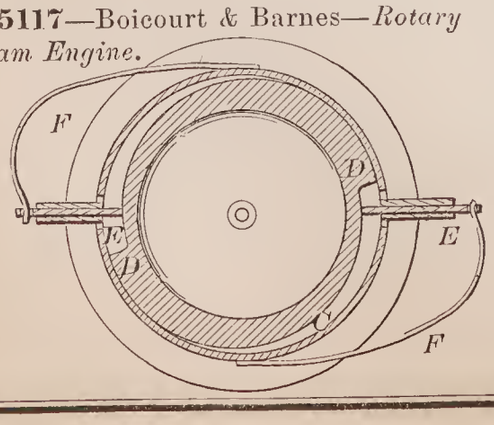
75114—J. H. Beidler—*Wash Board.*



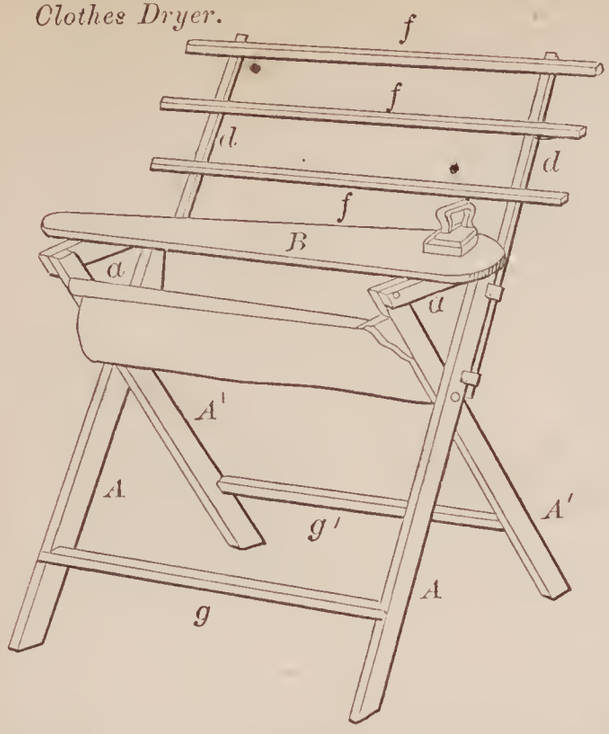
75119—E. Boswell—*Corn Harvester.*



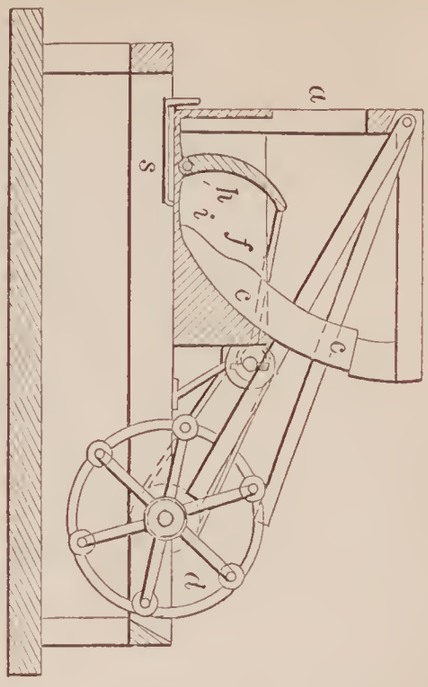
75117—Boicourt & Barnes—*Rotary Steam Engine.*



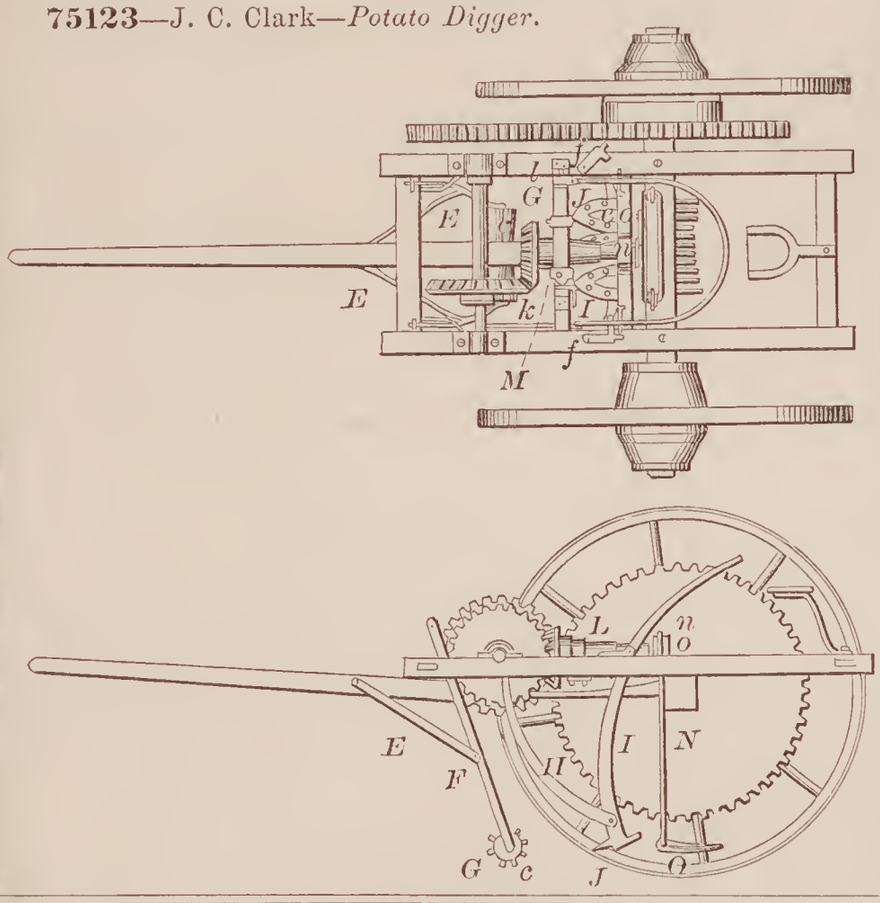
75120—B. S. Boydston—*Ironing Stand and Clothes Dryer.*



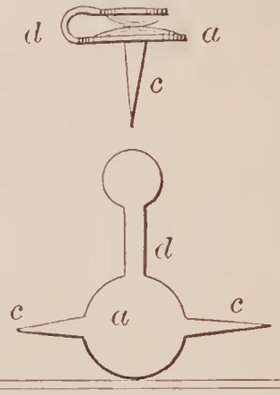
75122—A. Cattaneo—*For Fulling Hat Bodies.*



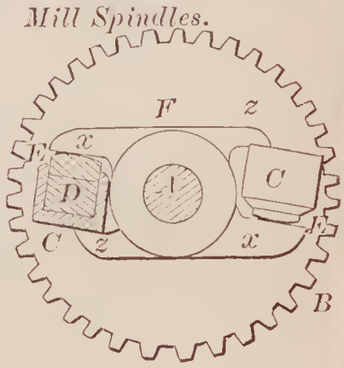
75123—J. C. Clark—*Potato Digger.*



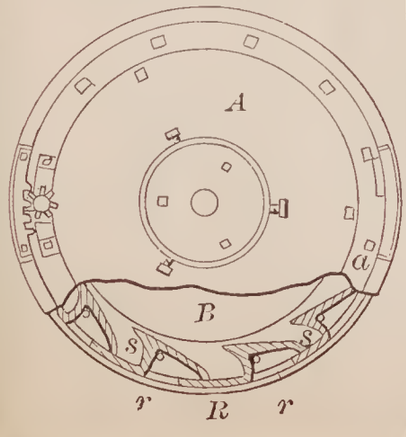
75126—O. H. Cooke—*Shoe Lacer.*



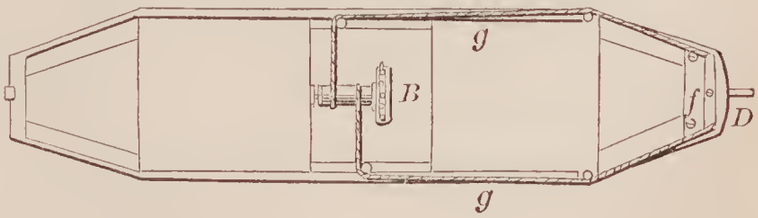
75124—T. L. Clark—*Spring Equalizer for Mill Spindles.*

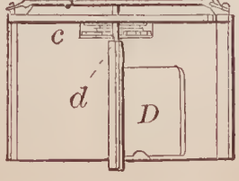


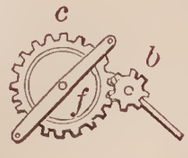
75121—N. F. Burnham—*Water Wheel.*



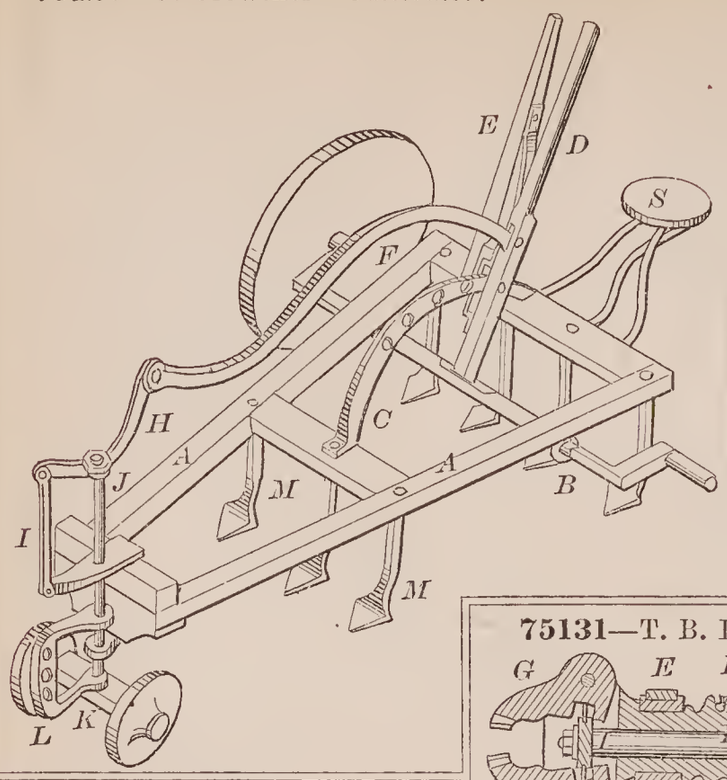
75125—G. H. Colbert—*Steering Apparatus.*



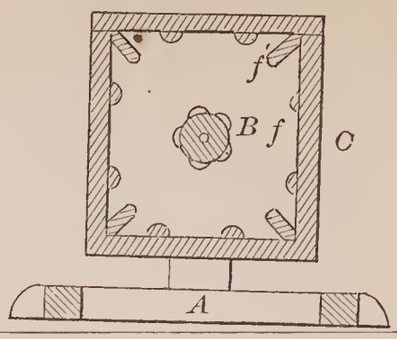




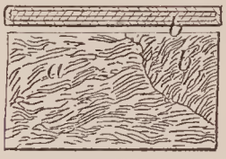
75127—J. Crowther—*Cultivator.*



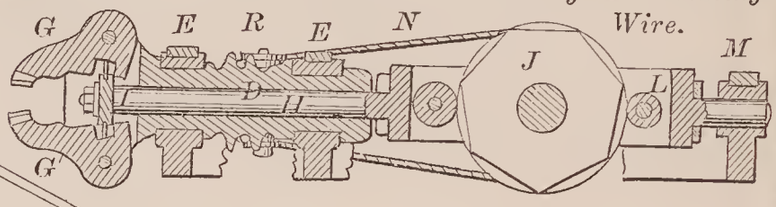
75129—G. Custer—*Washing Machine.*



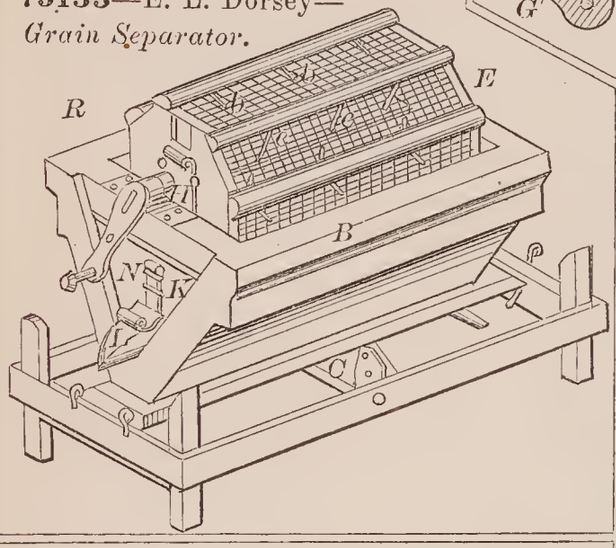
75130—A. R. Davis—*Card Board for* a *Printing*



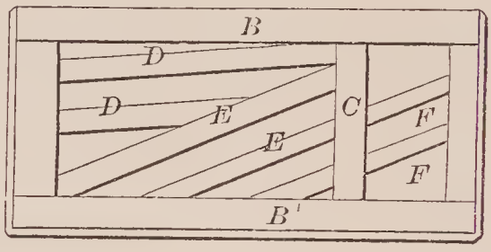
75131—T. B. De Forest—*For Reducing and Pointing Wire.*

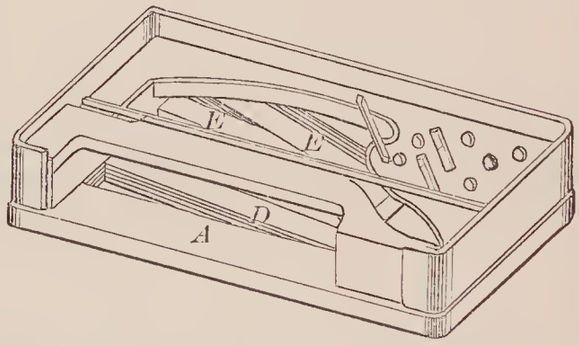


75133—E. L. Dorsey—*Grain Separator.*

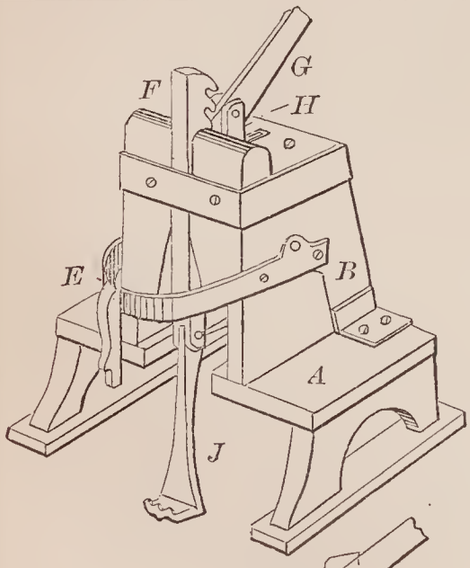


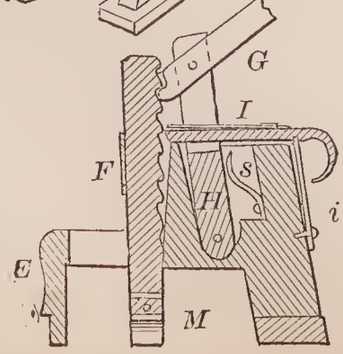
75132—A. F. Dessau—*Piano Forte Frame.*



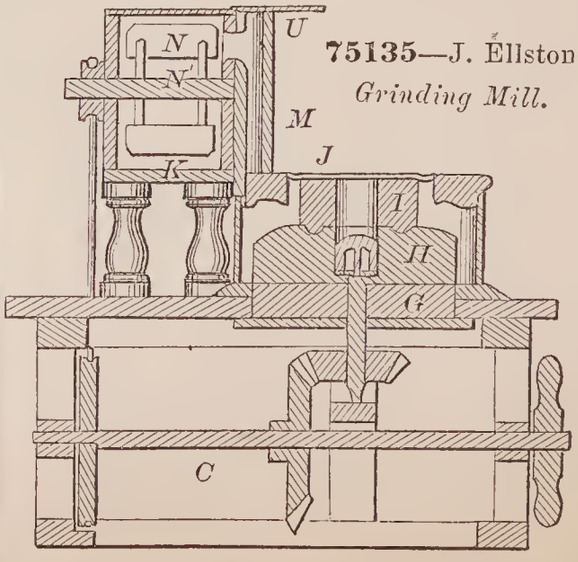


75134—J Douglass—*Lifting Jack and Spike Extractor.*

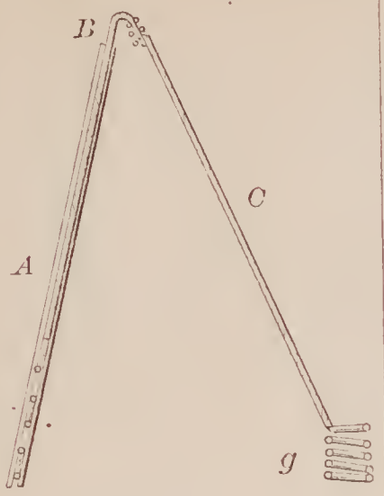




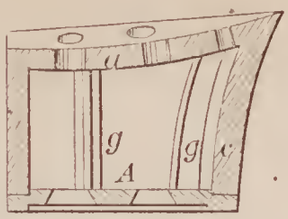
75135—J. Ellston—*Grinding Mill.*



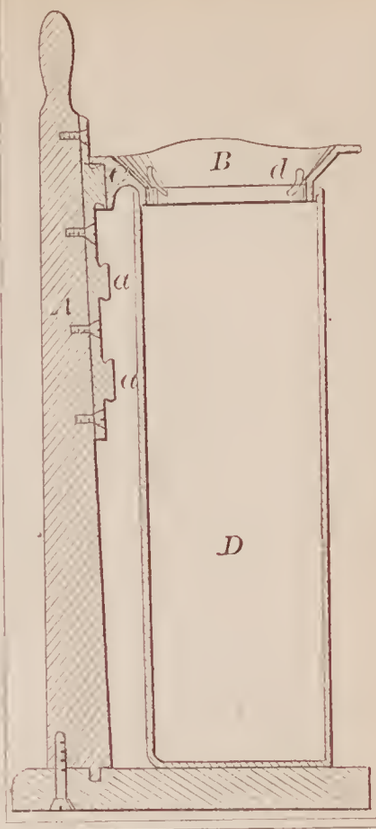
75136—J. Emery—*Lamp Shade.*



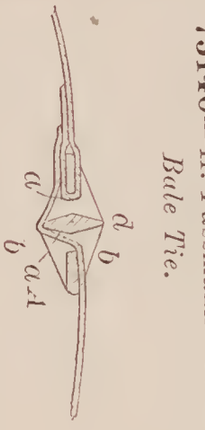
75137—T. S. Engledow—*Boot and Shoe Heel.*



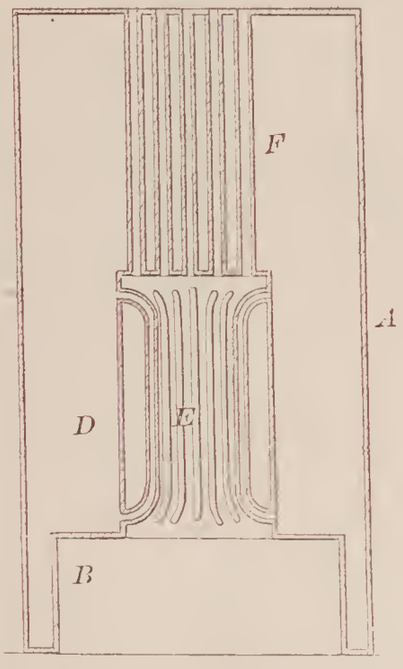
75138—E. C. Fairchild—*Bag Holder.*



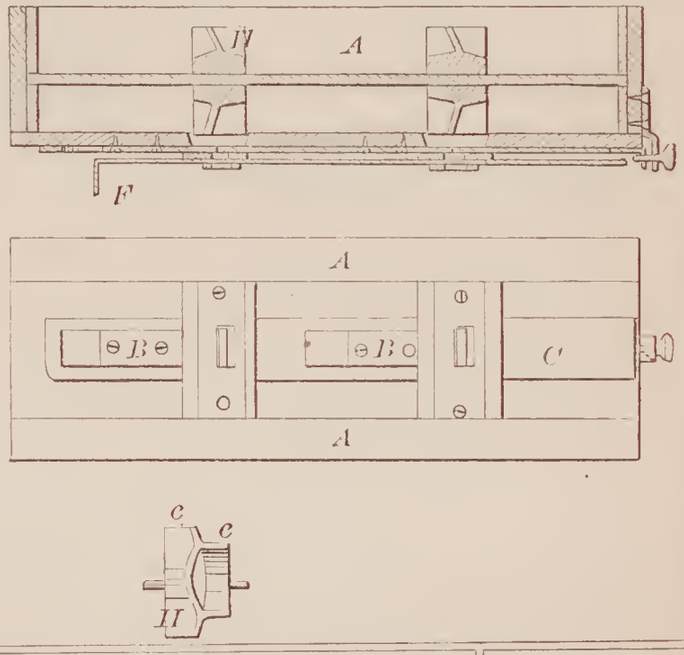
75140—H. Fassmann—*Cotton Bale Tie.*



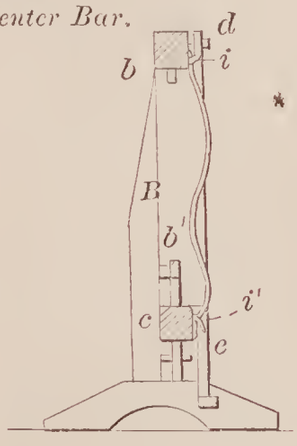
75141—H. T. Fenton—*Steam Generator.*



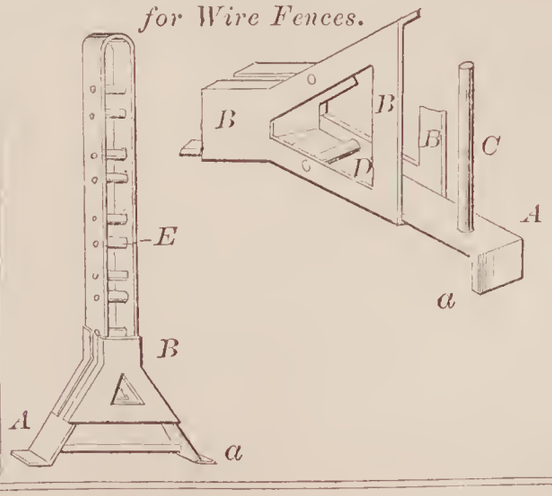
75142—J. R. Finch—*Grain Drill.*



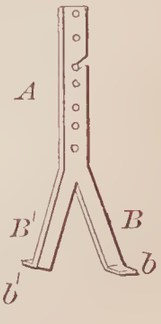
75143—S. L. Fiske—*Tenter Bar.*



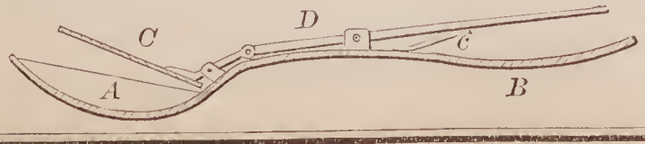
75144—H. K. Flinchbaugh—*Iron Post for Wire Fences.*



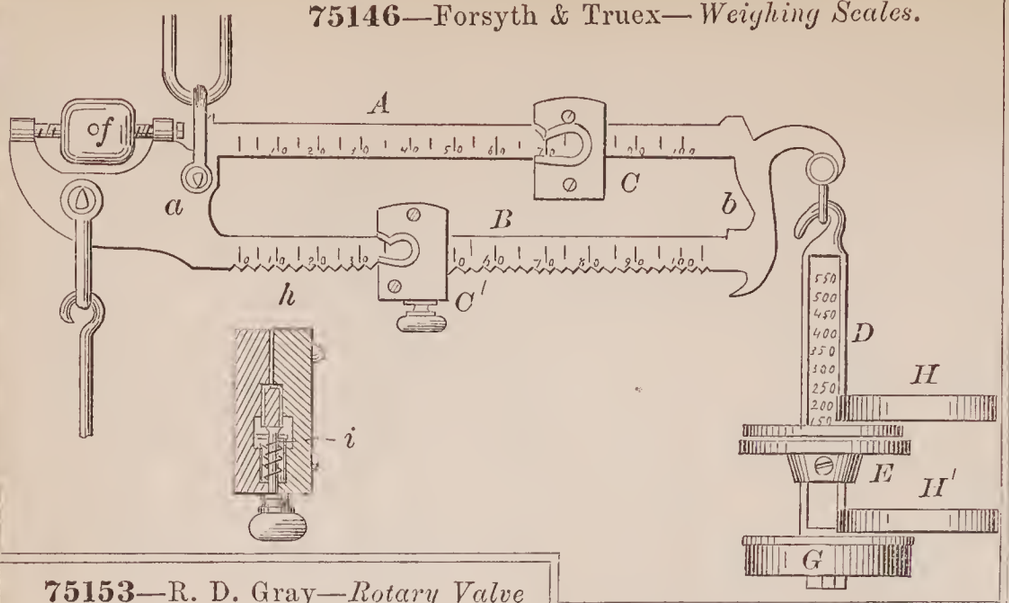
75145—H. K. Flinchbaugh—*Iron Post for Wire Fences.*



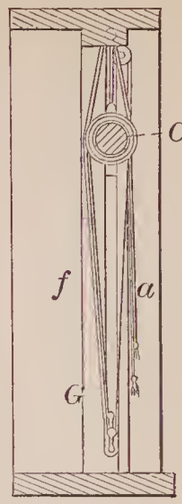
75139—S. Farrer—*Spoon.*

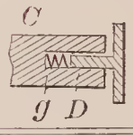


75146—Forsyth & Truex—*Weighing Scales.*

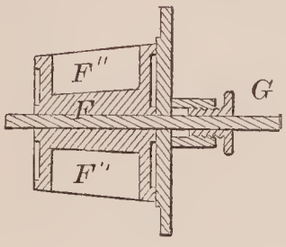


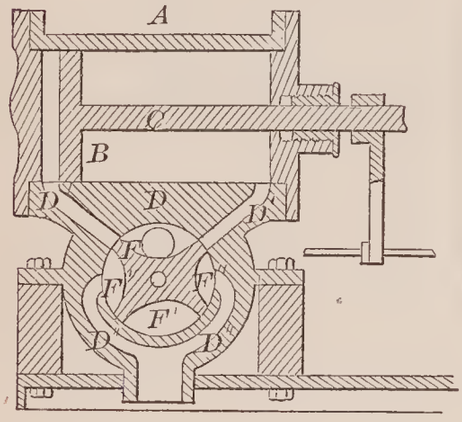
75152—J. C. Govers—*Window Shade.*



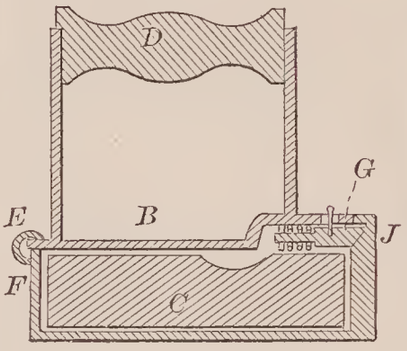


75153—R. D. Gray—*Rotary Valve*

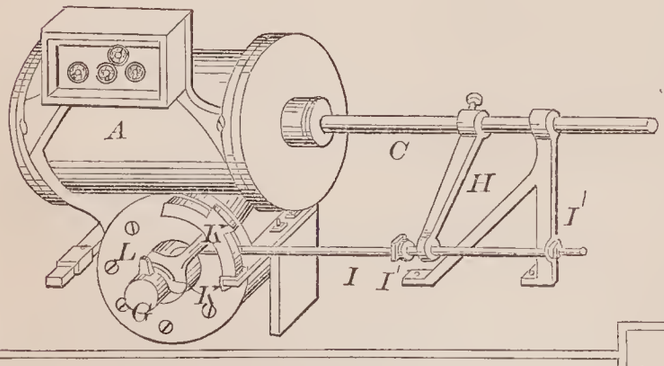




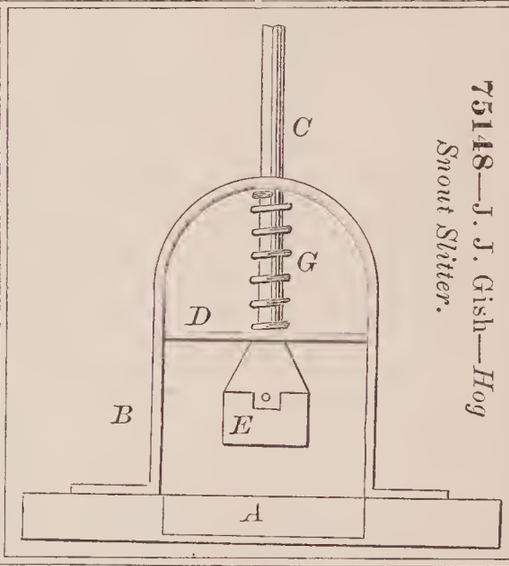
75150—R. J. P. Goodwin—*Sad Iron.*



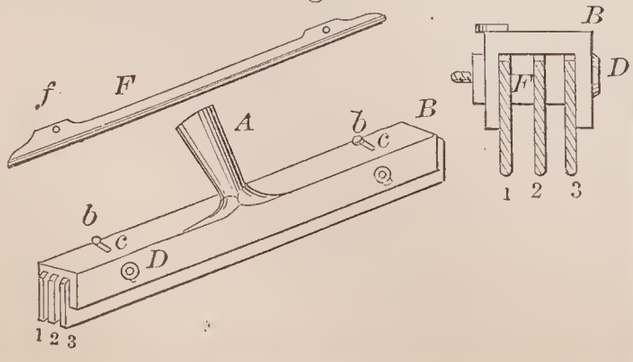
75151—R. J. Gould—*Packing for Hose Coupling.*



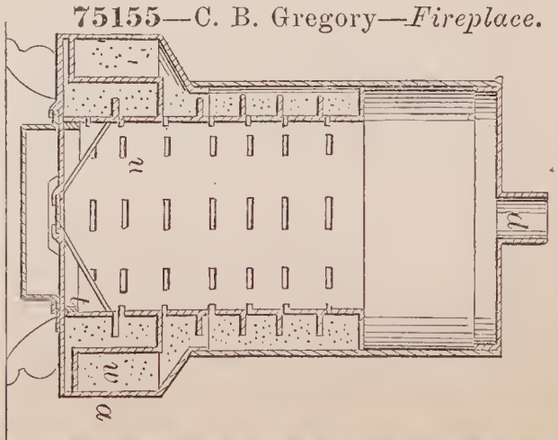
75148—J. J. Gish—*Hog Snout Slitter.*



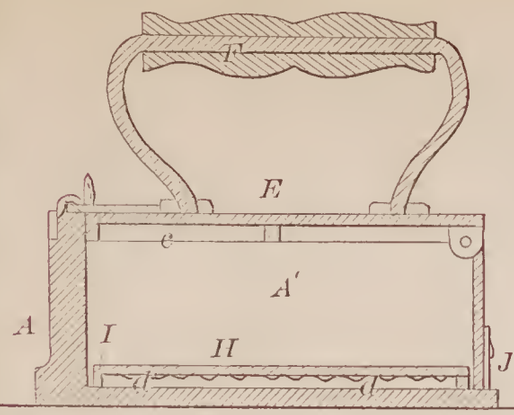
75154—H. B. Grebinger—*Scrubber Holder.*



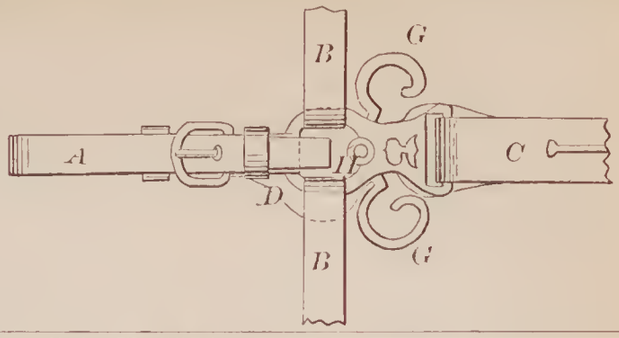
75155—C. B. Gregory—*Fireplace.*



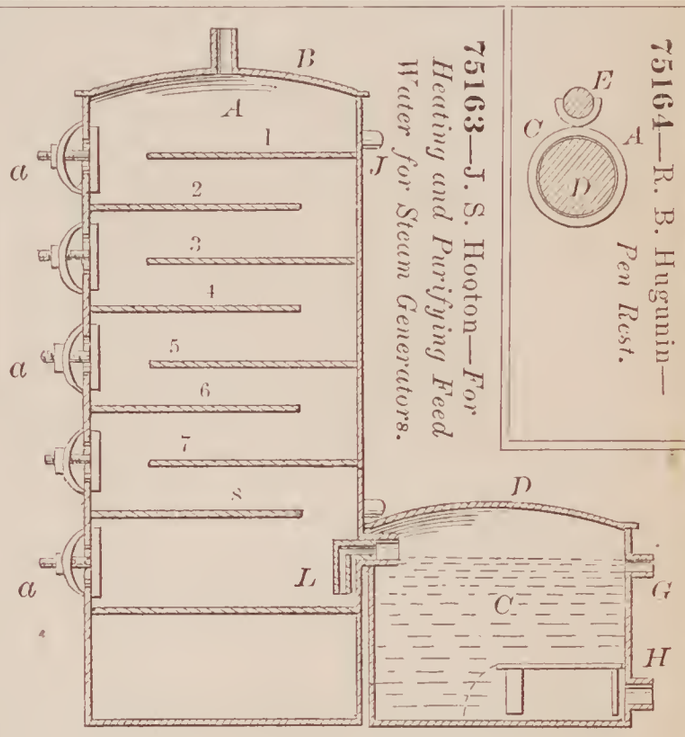
75156—J. Grüssi—*Flatiron.*



75157—J. N. Guger—*Tug and Chain Carrier.*

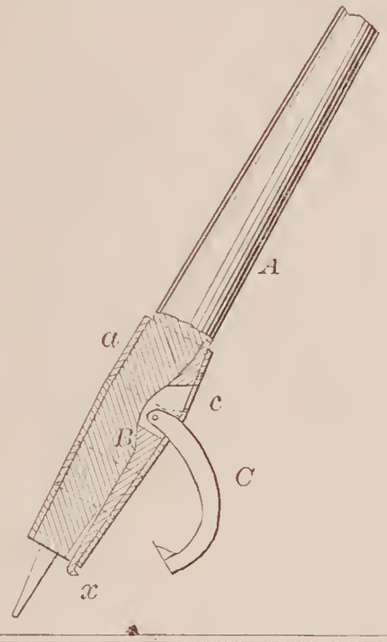


75163—J. S. Hooton—*For Heating and Purifying Feed Water for Steam Generators.*

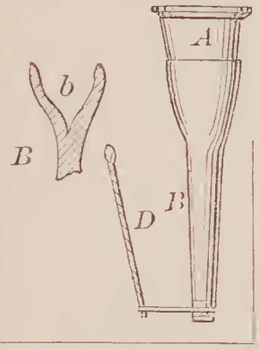


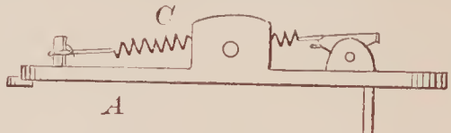
75164—R. B. Huguuin—*Pen Rest.*

75162—G. W. Herring—*Cant Hook.*



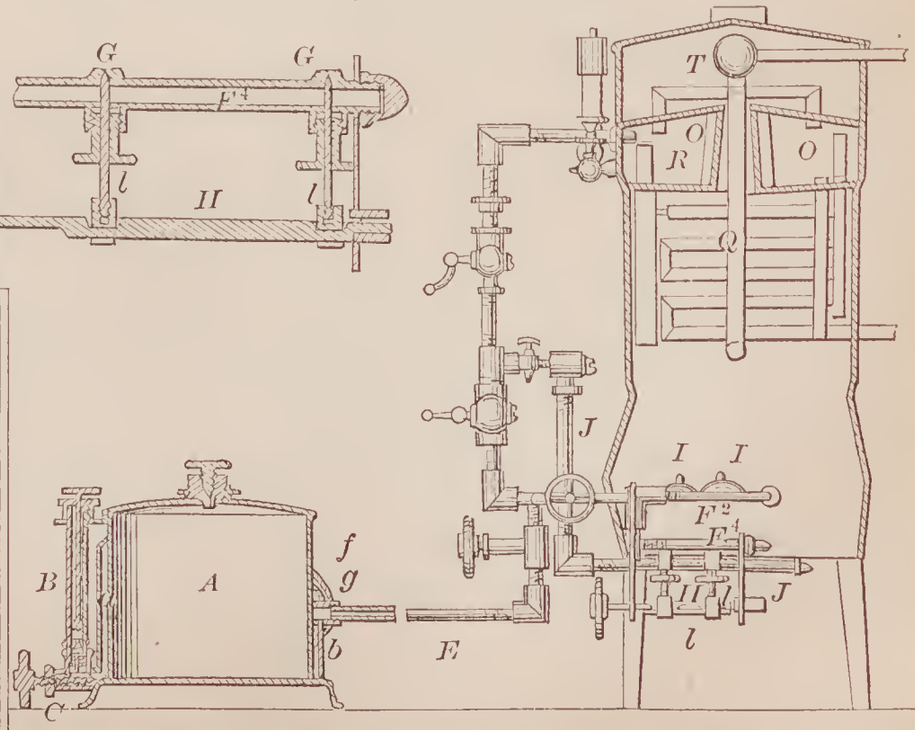
75158—J. R. Hamilton—*For Making Local Applications.*



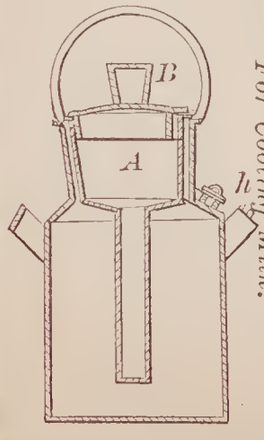


75159—J. Harvey—*Hat Hook.*

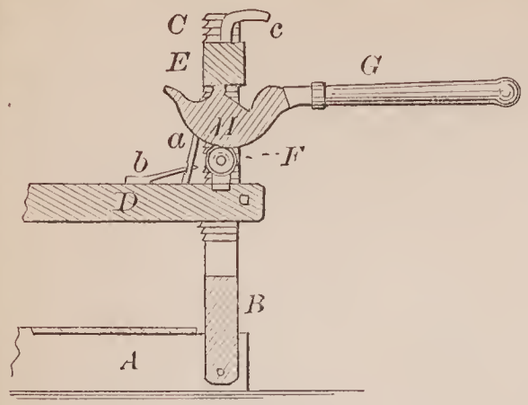
75165—J. S. Hull—*Hydro-Carbon Burner.*



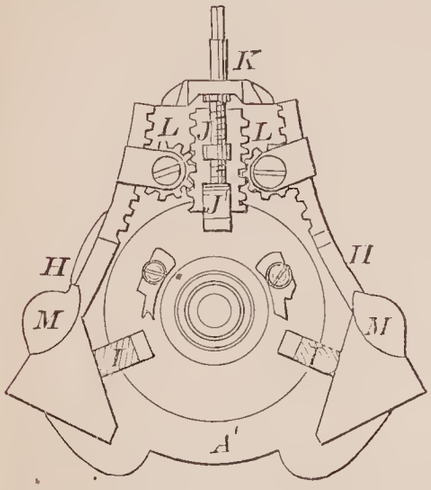
75160—Hawley & Westcott—*For Cooling Milk.*



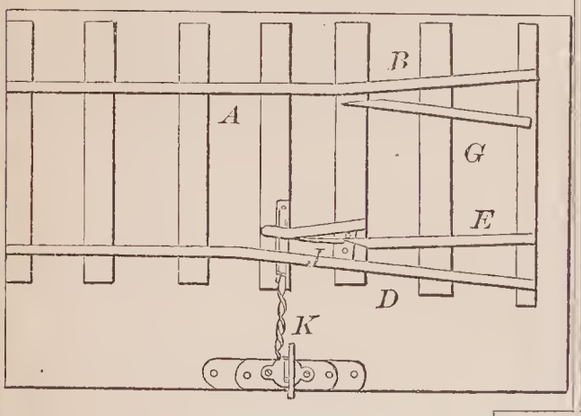
75166—J. Hutchinson—*Hop Press.*

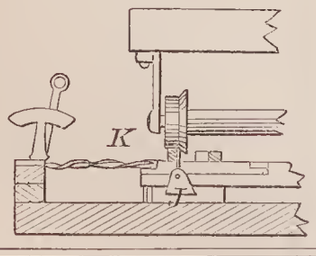


75167—N. Johnson—*For Boring Hubs.*

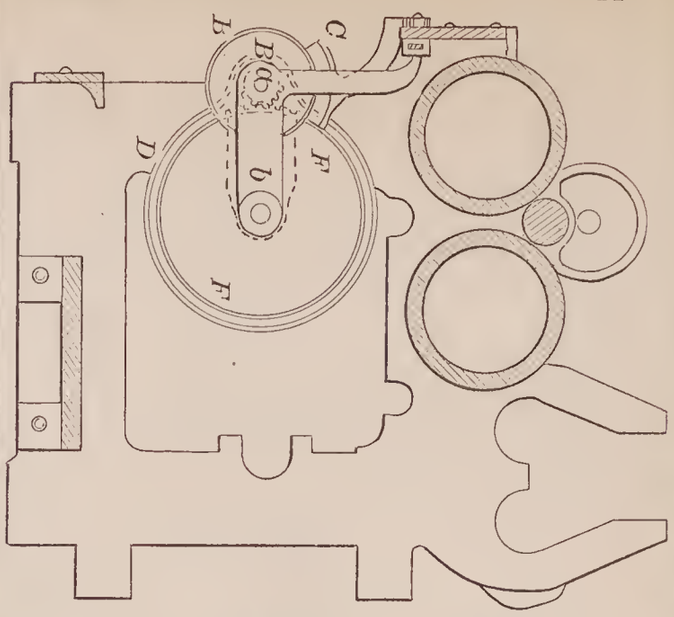


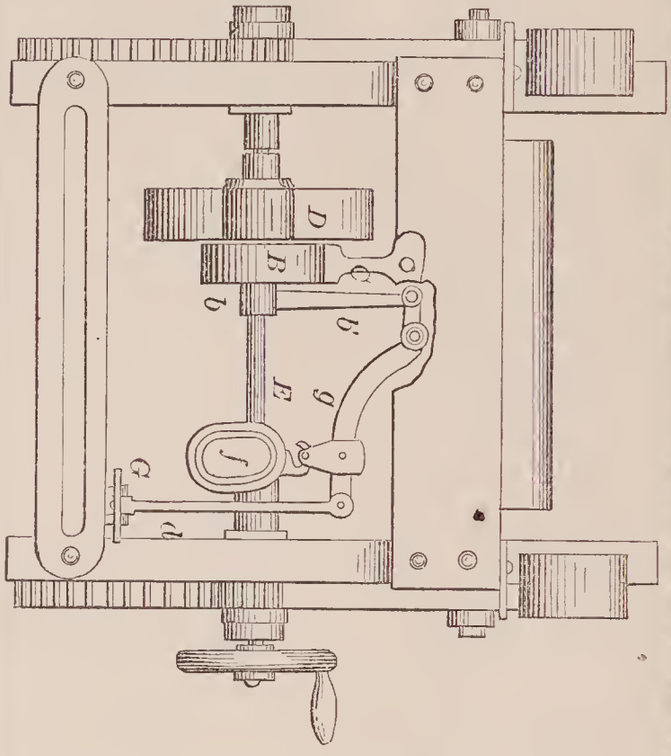
75171—H. K. Leech—*Railroad Switch.*



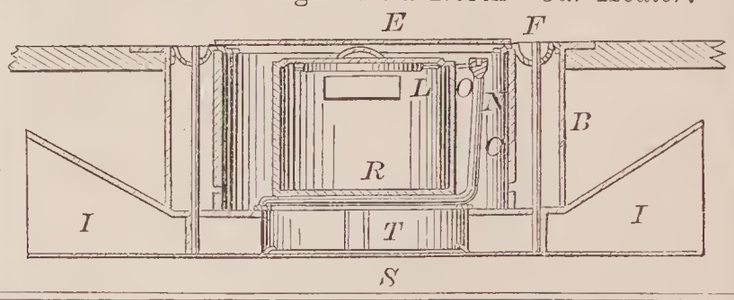


75169—K. Kitson—*Brake for Cotton Lappers.*

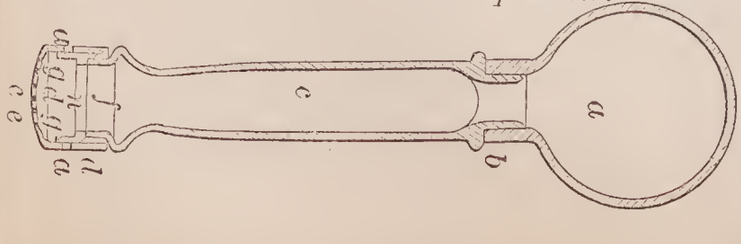




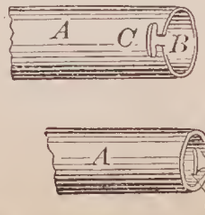
75172—Lighthall & North—*Car Heater.*



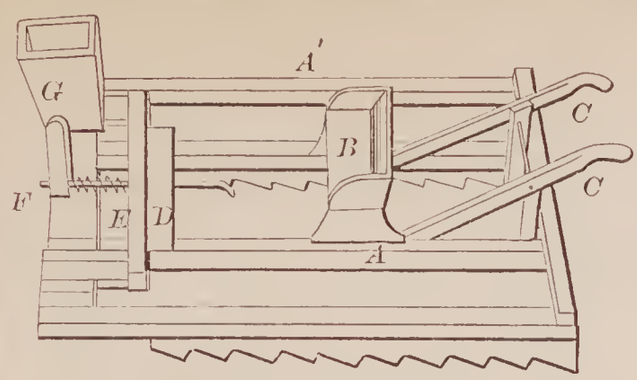
75168—E. H. Kirkham—*Clothes Sprinkler.*



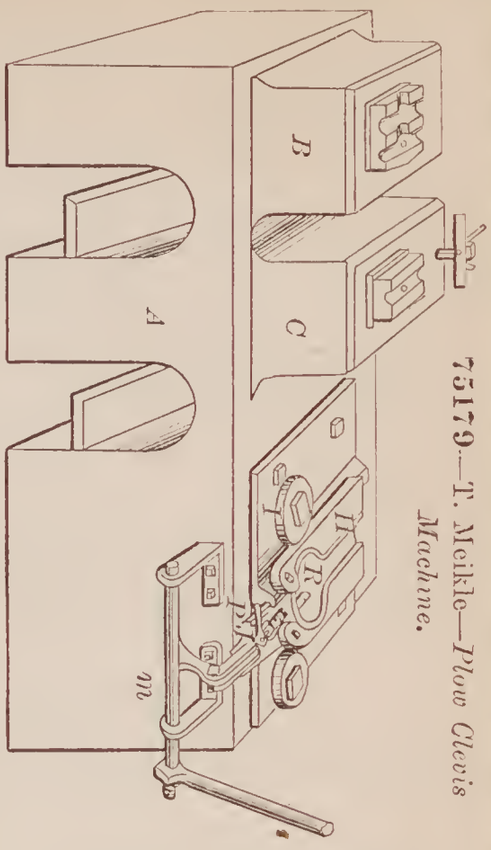
75173—W. A. Lighthall—*For For Securing Tubes in Surface Condensers.*



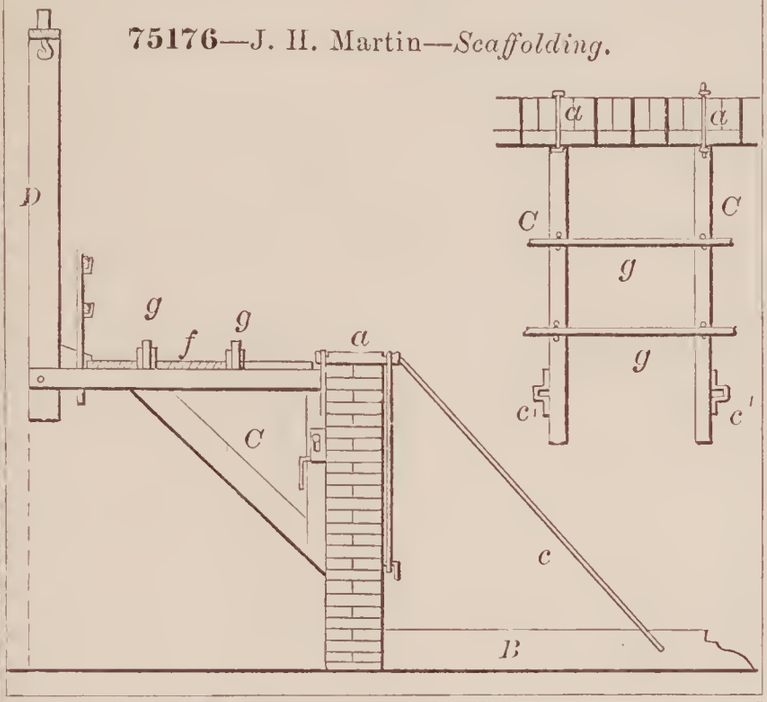
75174—Lowrey, Case & Chew—*Corn Planter.*



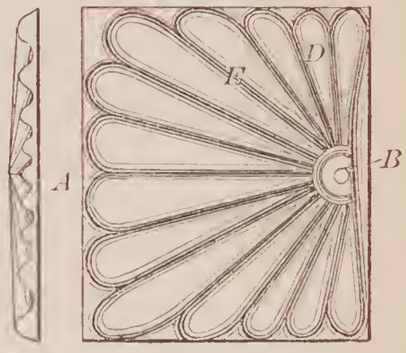
75179—T. Meikle—*Plow Clevis Machine.*



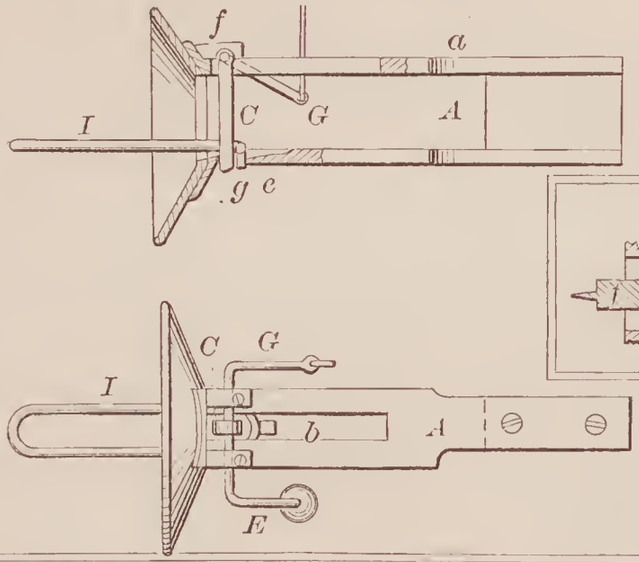
75176—J. H. Martin—*Scaffolding.*



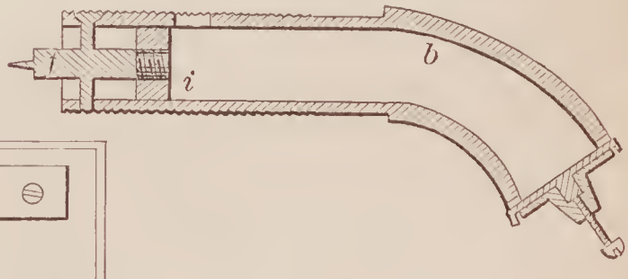
75175—Mace & Gwyer—*Ice Box Bottom.*



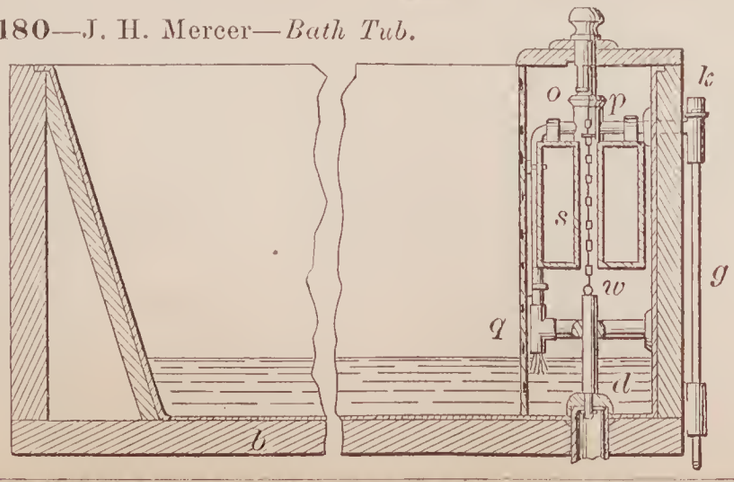
75178—J. S. McMurray—*Car Coupling.*

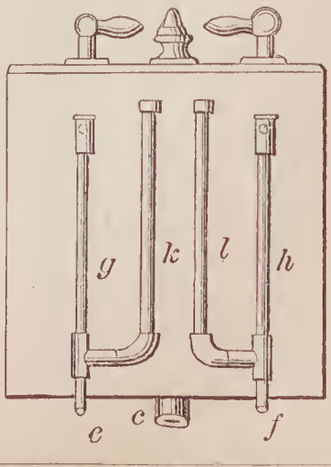


75177—S. McGee—*Boring Faucet.*

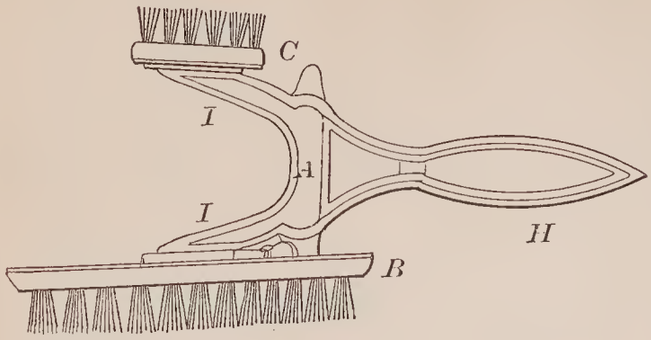


75180—J. H. Mercer—*Bath Tub.*

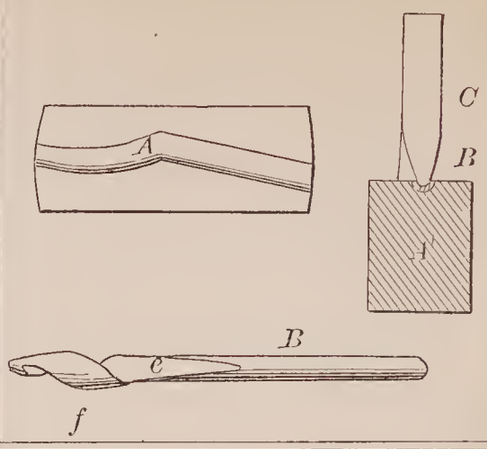




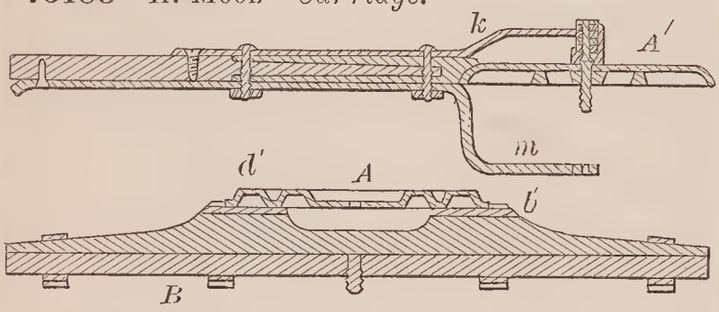
75181—H. J. Miller—*Boot Jack and Brush.*



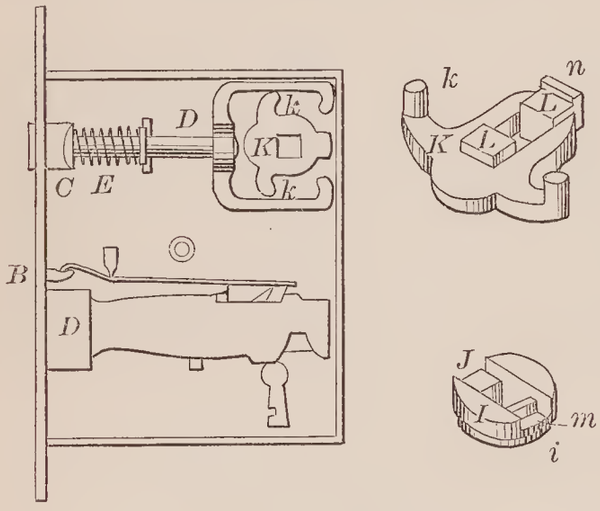
75182—J. Mix—*Gimlet.*



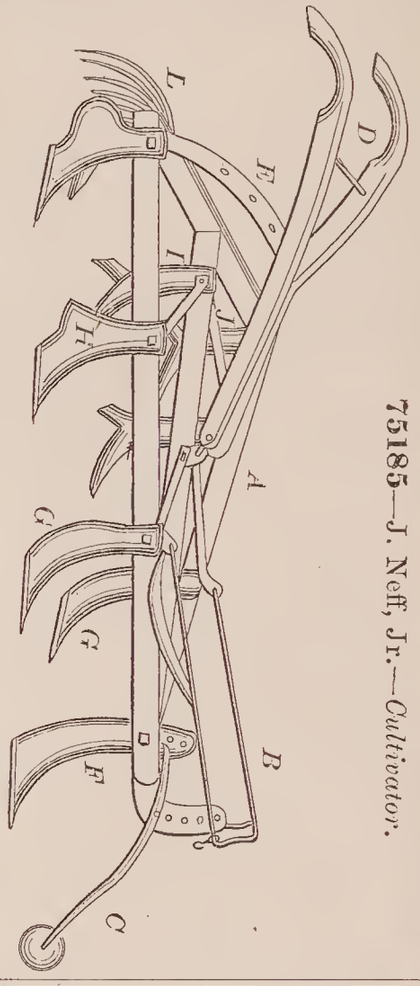
75183—H. Moon—*Carriage.*



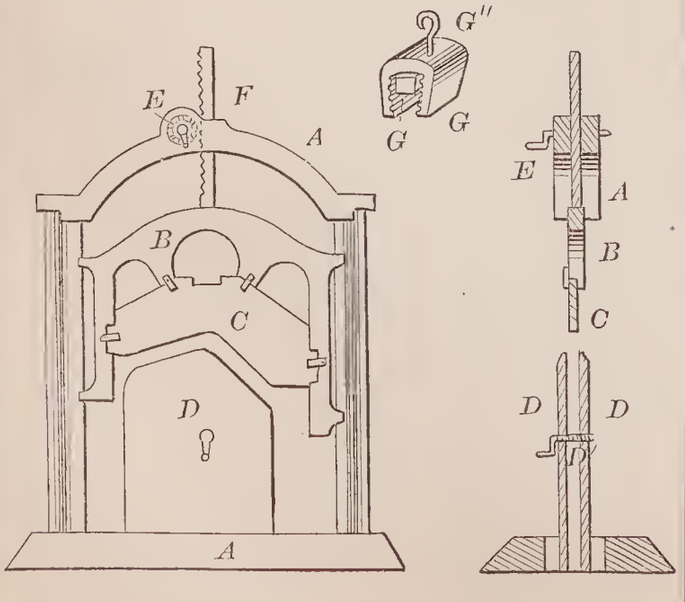
75184—W. T. Munger—*Reversible Knob Latch.*



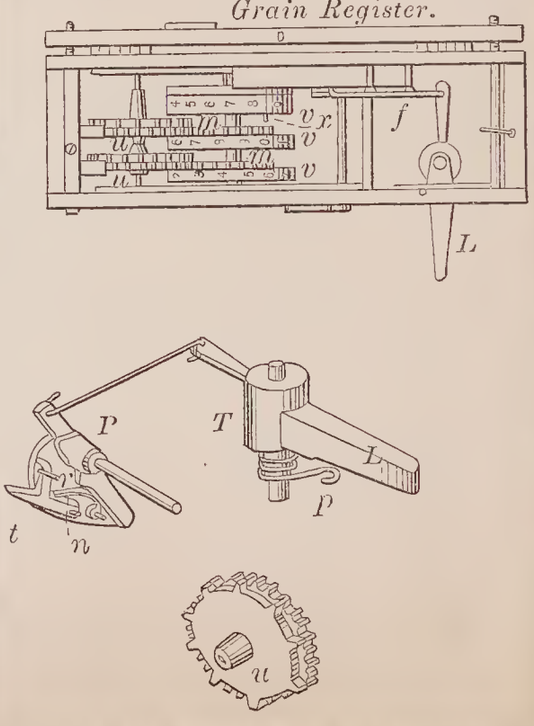
75185—J. Neff, Jr.—*Cultivator.*



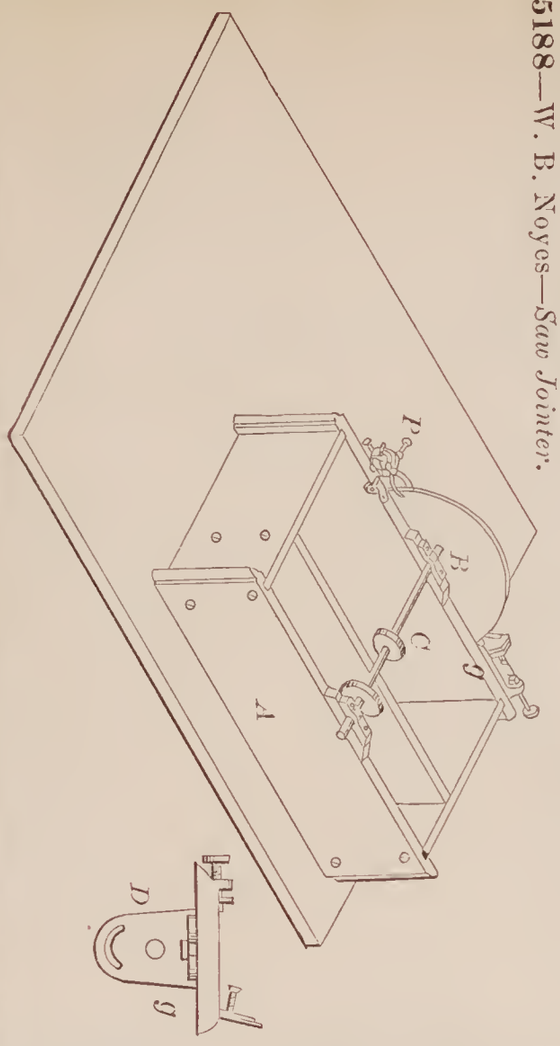
75186—J. A. Nesbit—*Boot Crimping Machine.*



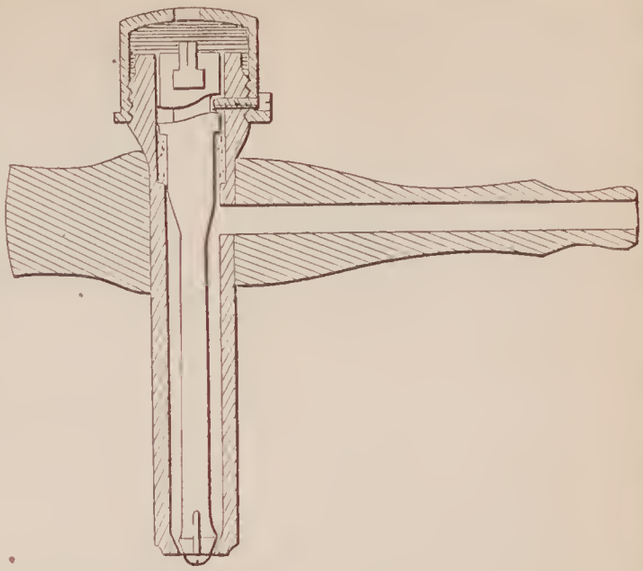
75187—M. W. & G. W. Nesmith—*Grain Register.*



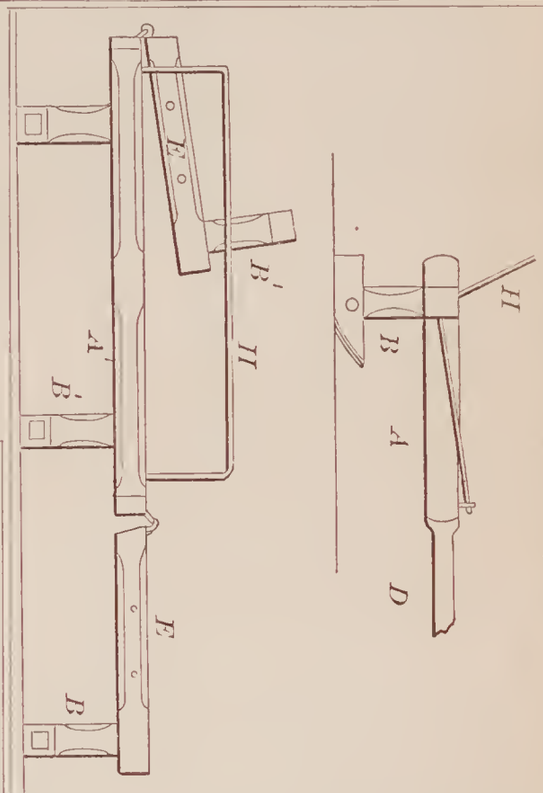
75188—W. B. Noyes—*Saw Jointer.*



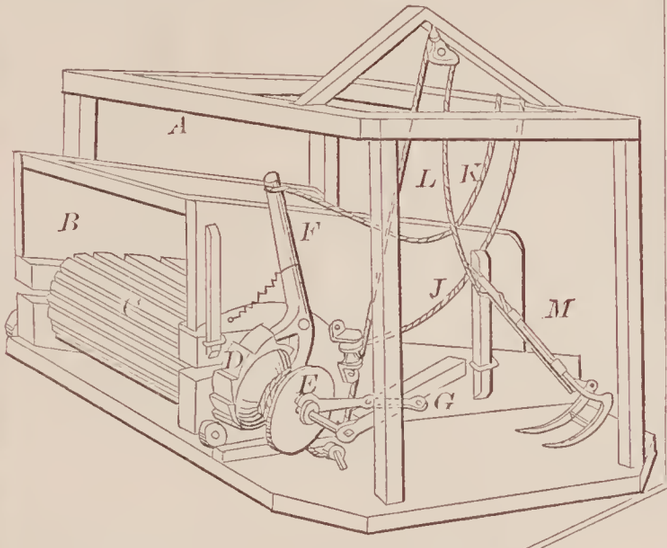
75191—T. W. Plum—*Syphon Faucet.*



75190—J. P. Olin—*Corn Marker, &c.*

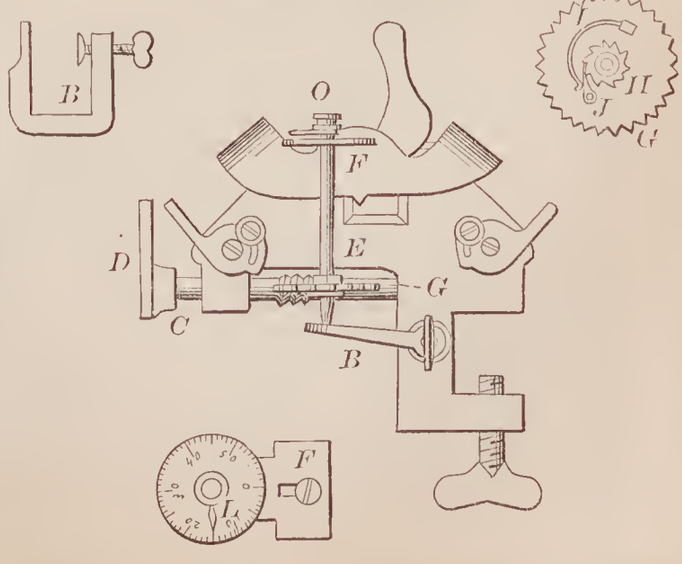


75193—H. G. Porter—*Hay Elevator.*



75192—D. H. Porter—*Pivoting Teeth.*

75194—J. C. Potter—*Knitting Machine Indicator.*



75189—P. Numsen—*Fruit Can.*

Fig. 4 & 5

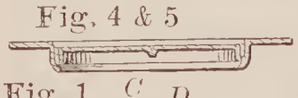
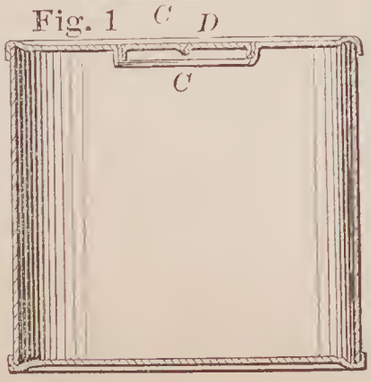
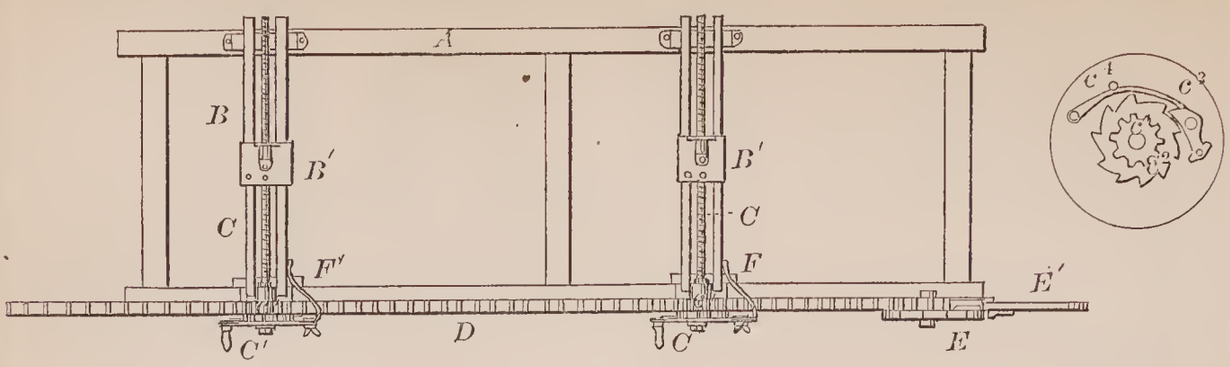


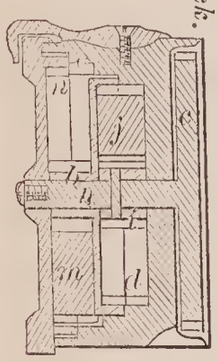
Fig. 1



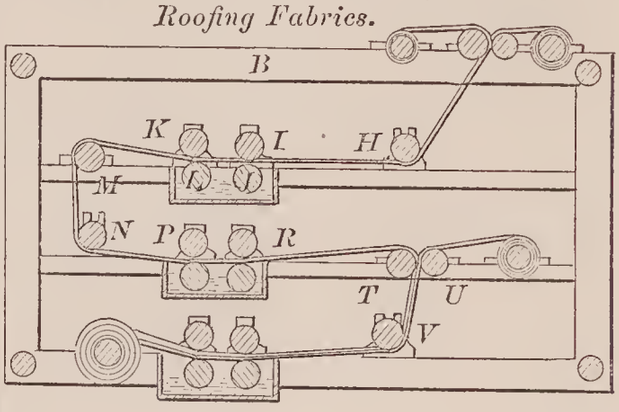
75195—W. S. Reeder—*Head Block for Saw Mills.*



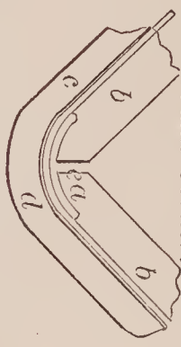
75196—G. Richardson—*Machine Clock.*



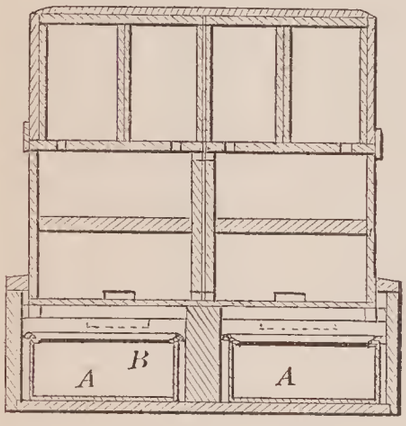
75197—A. Robinson—*Manufacture of Roofing Fabrics.*



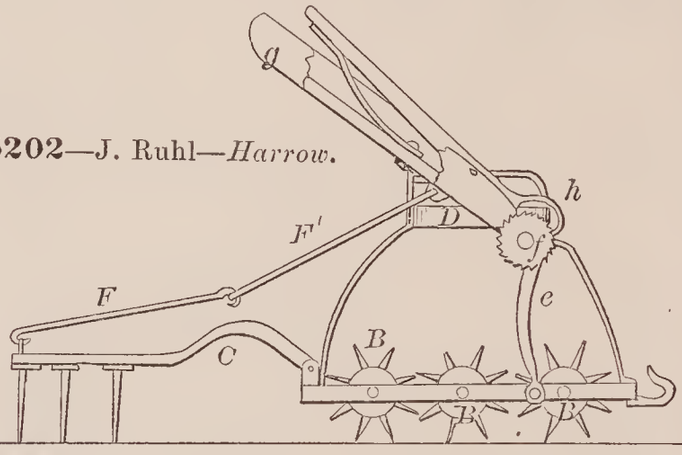
75200—E. A. G. Roulstone—*Trunk Corner.*



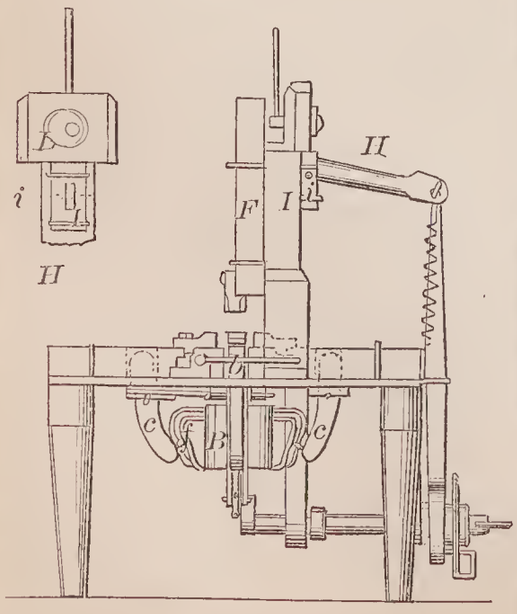
75201—D. Rudolph—*Beehive.*

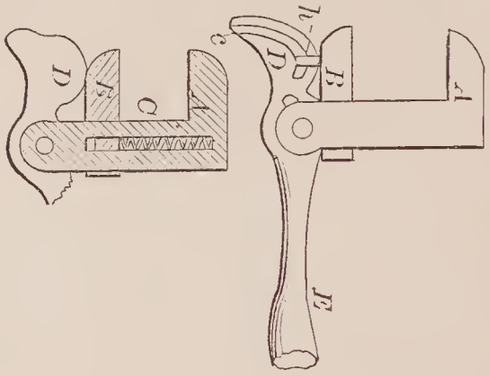


75202—J. Ruhl—*Harrow.*

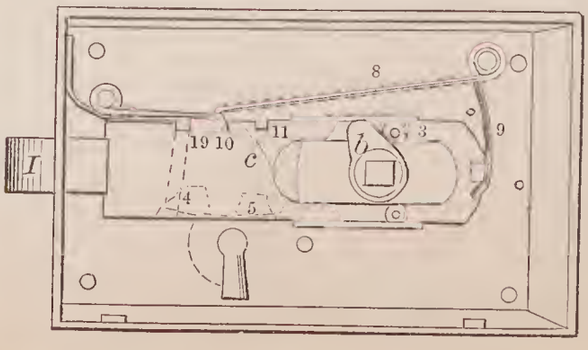


75198—J. Root—*Bolt Heading Machine.*

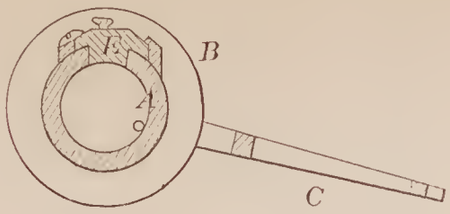




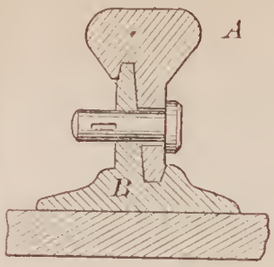
75204—G. Schumacher—*Knob Latch and Lock.*

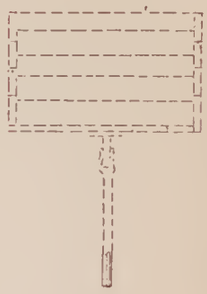


75205—Shaw & Simmons—*Churn.*

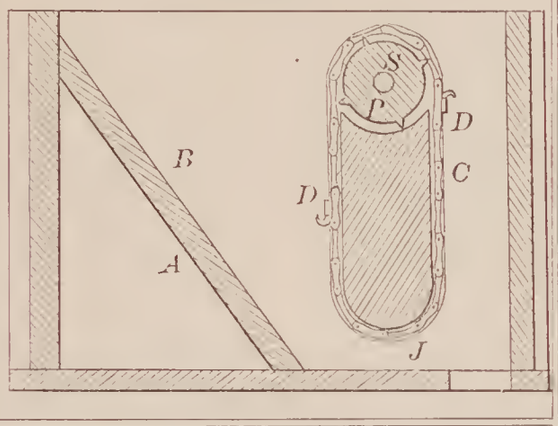


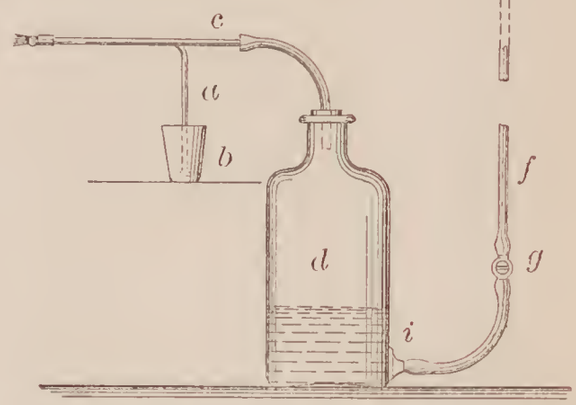
75206—E. R. Shepard—*Railroad Rail.*





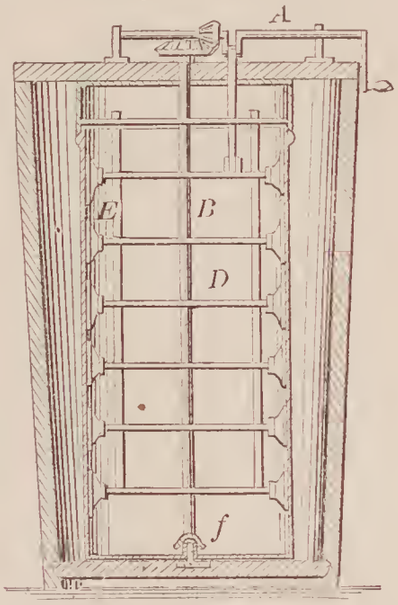
75207—N. B. Sherwood—*Cotton Seed Planter.*



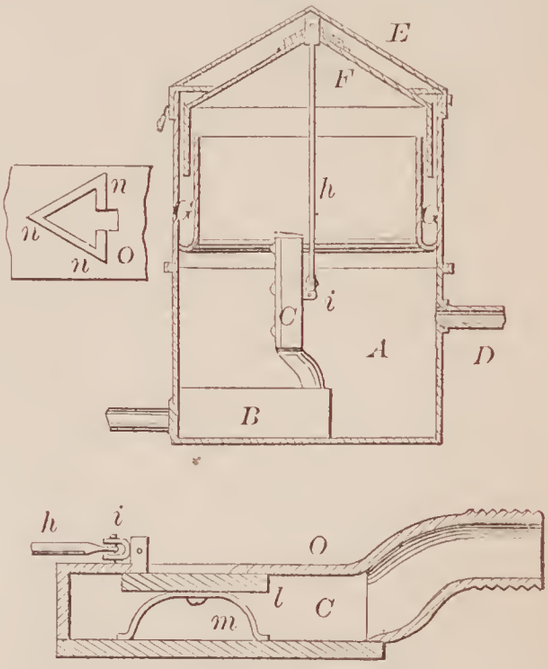


75208—A. M. Shurtleff—*For Atomizing Liquids.*

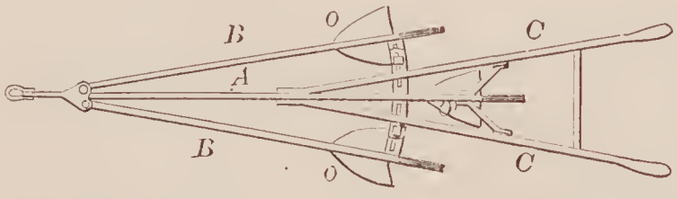
75209—F. G. Siemers—*Seraper for Ice Cream Freezers.*



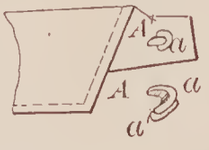
75210—W. A. Simonds—*Gas Regulator.*



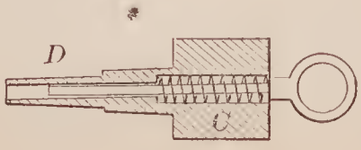
75211—D. S. Slater—*Cultivator.*



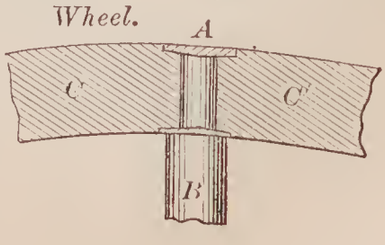
75212—B. M. Smith—*Button Hole for Paper Articles of Apparel.*



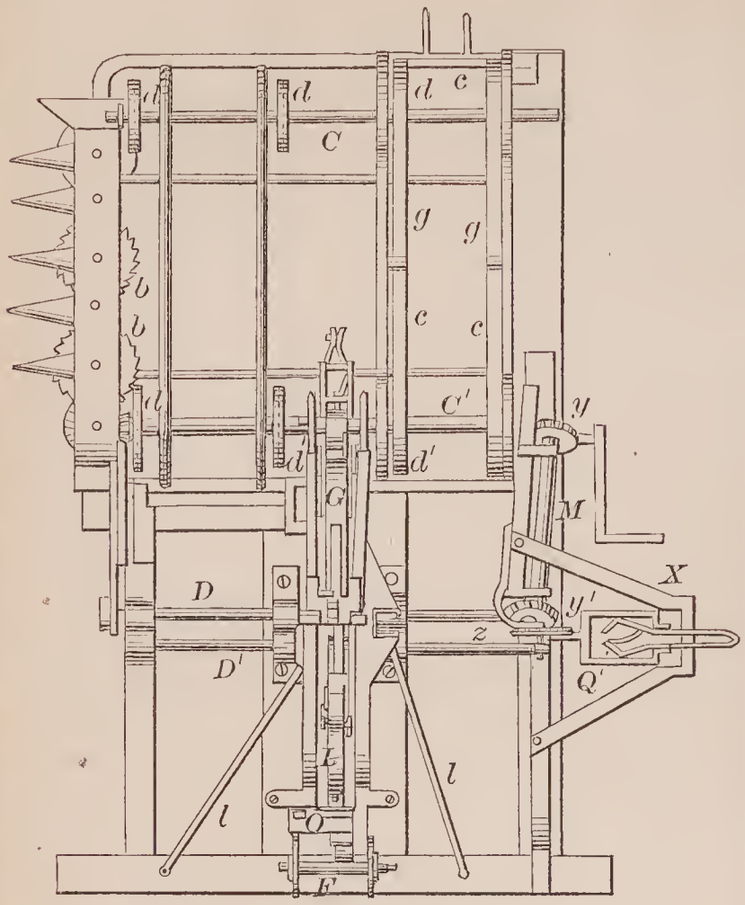
75214—G. B. St. John—*Watch Key.*

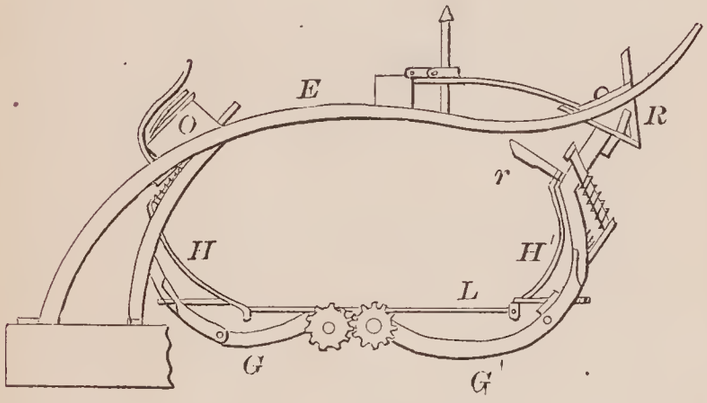


75213—J. C. Sparks—*Carriage Wheel.*

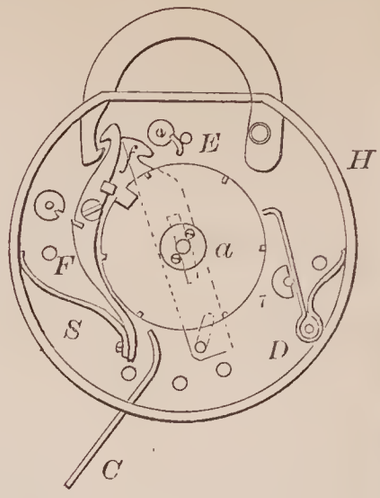


75215—A. S. Stone—*Grain Binder.*

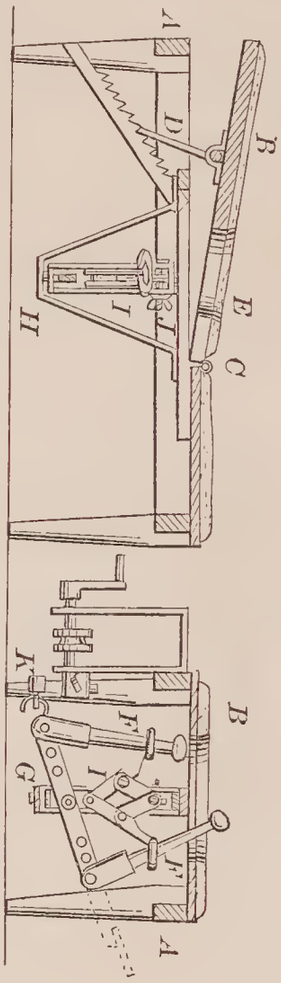




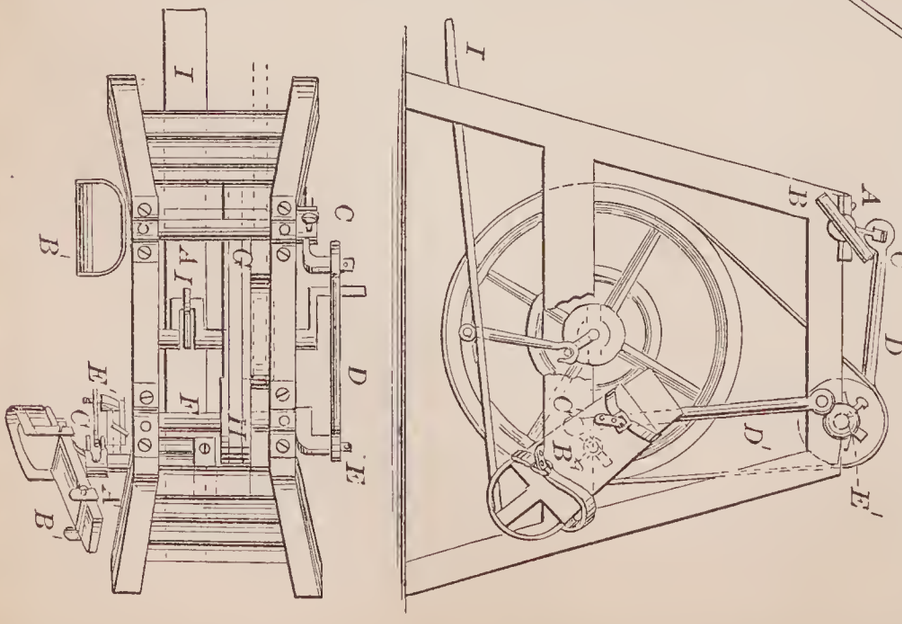
75216—E. E. Stubbs—*Padlock.*



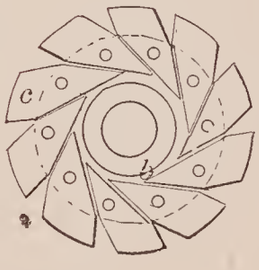
75217—G. H. Taylor—*Apparatus for Exercise.*



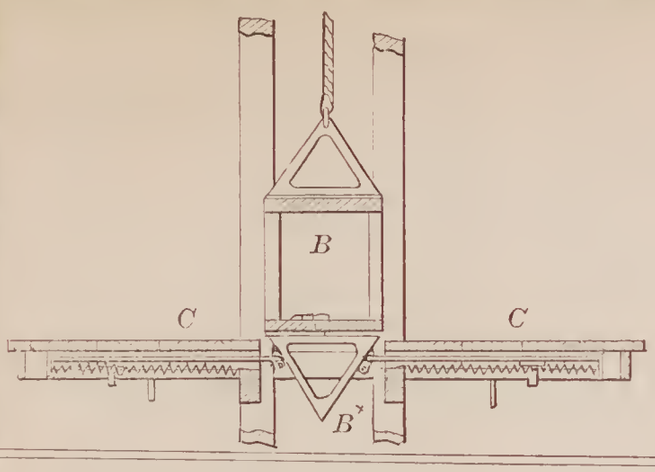
75218—G. H. Taylor—*Apparatus for Exercise.*



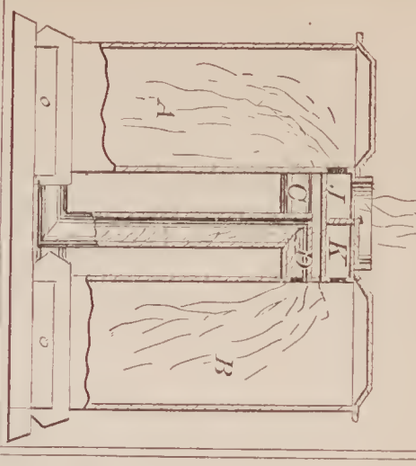
75219—H. R. Taylor—*Gear Cutting Tool.*



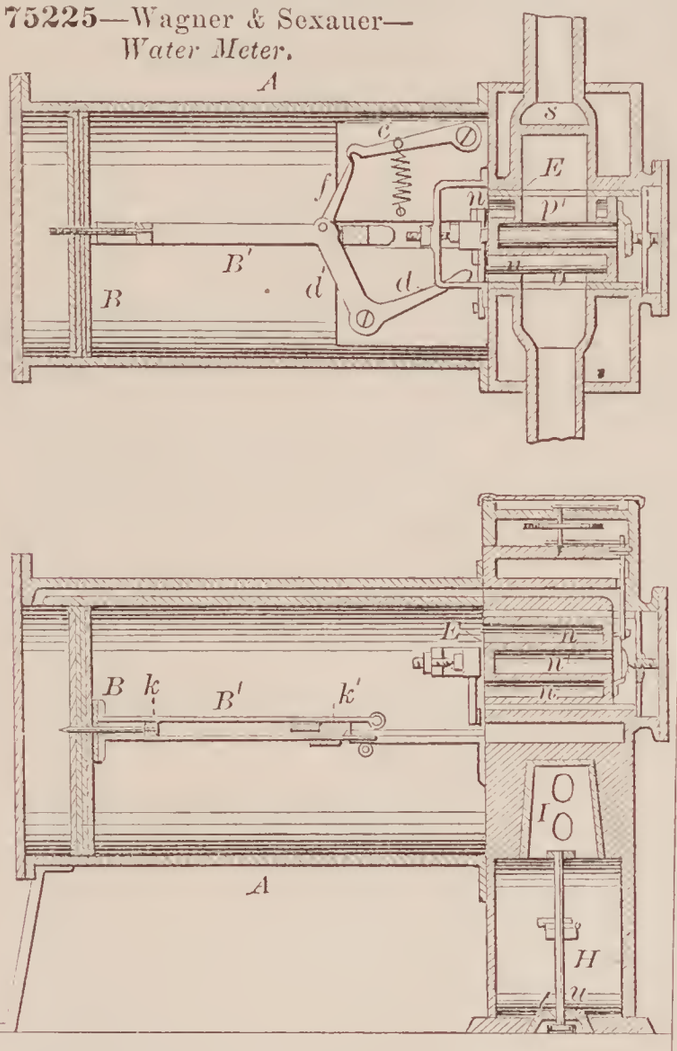
75220—D. B. Thompson—*Elevator for Buildings.*



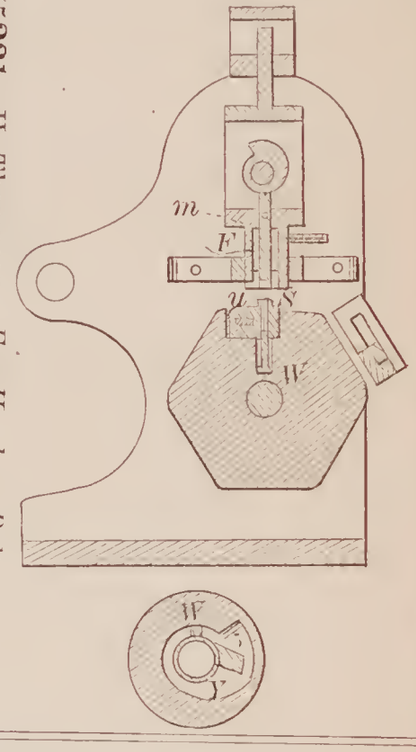
75223—H. B. Von Voorhis—*Coal Stove.*



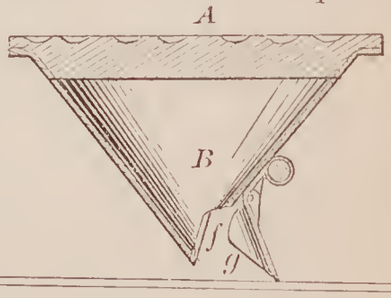
75225—Wagner & Sexauer—*Water Meter.*



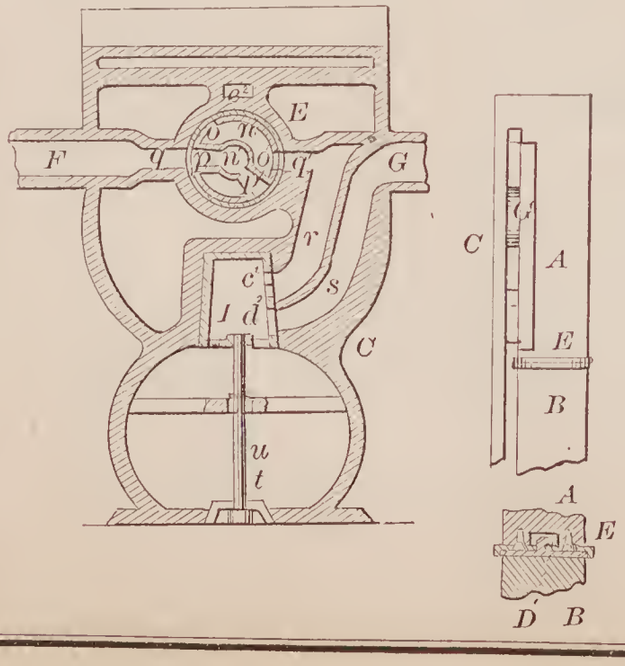
75221—H. Thompson—*For Heading Bolts.*



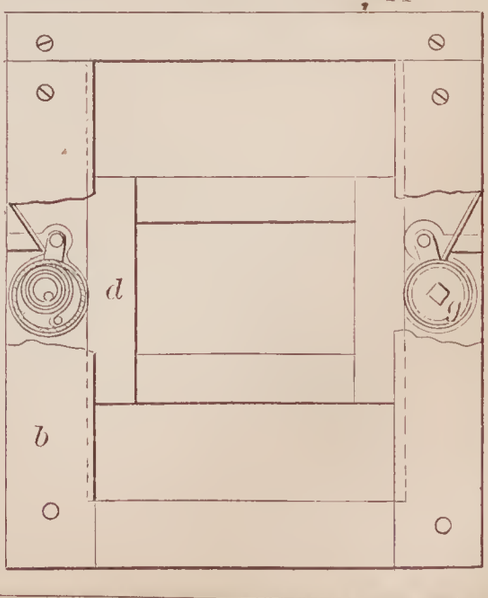
75222—J. C. Tunison—*Spittoon.*



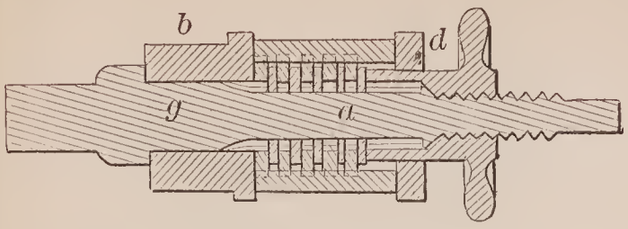
75224—W. F. Veber—*Gate Post.*



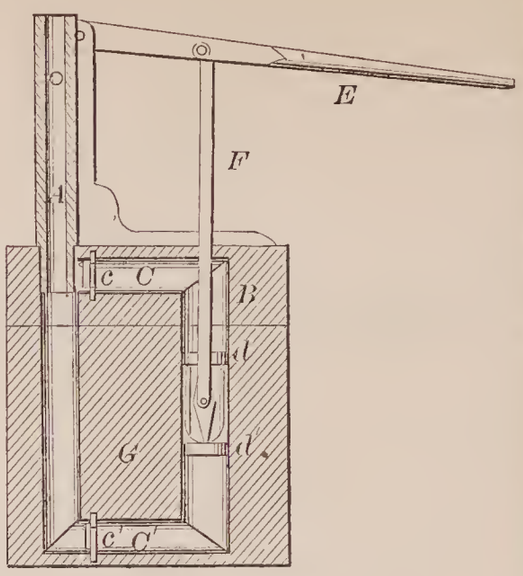
75226—P. Wenzel—*Sash Supporter.*

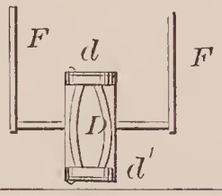


75227—T. A. Weston—*Coupling and Brake.*

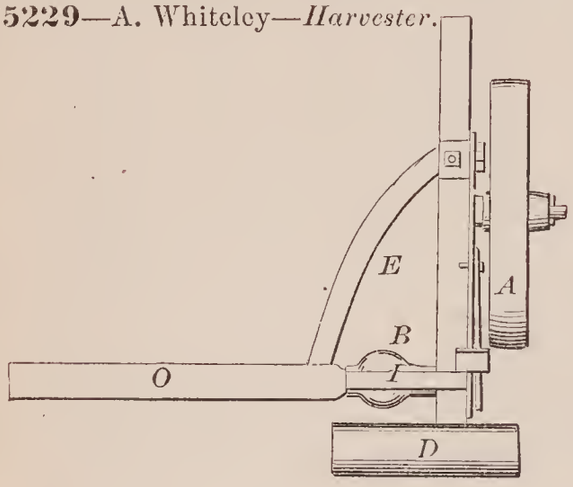


75228—P. B. & H. M. C. White—*Pump.*

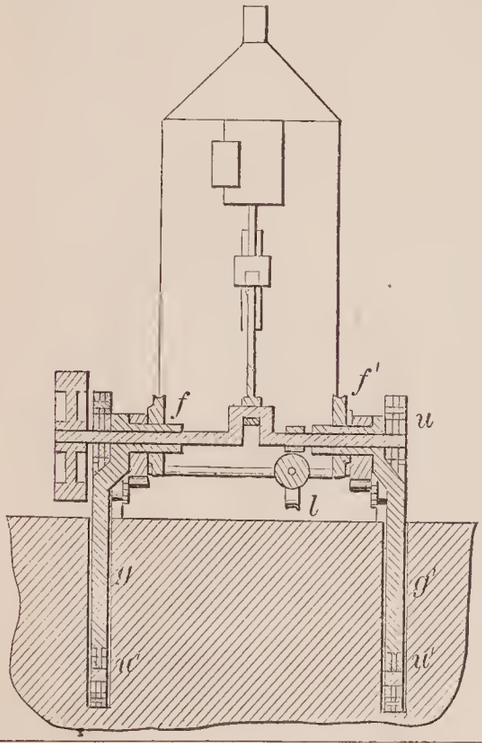


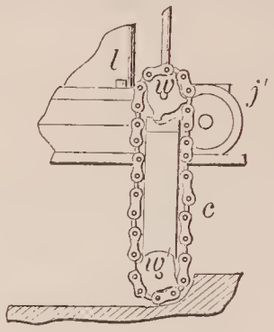


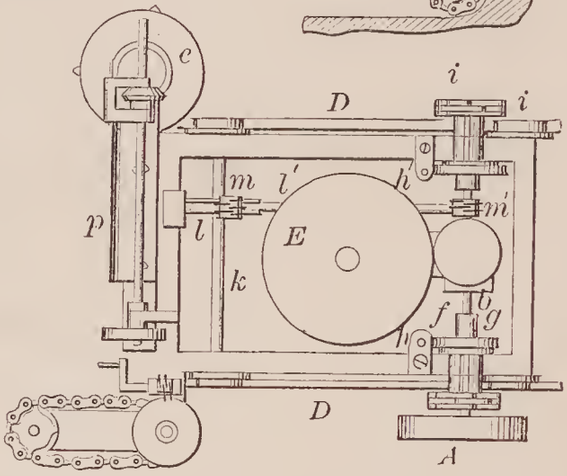
75229—A. Whiteley—*Harvester.*



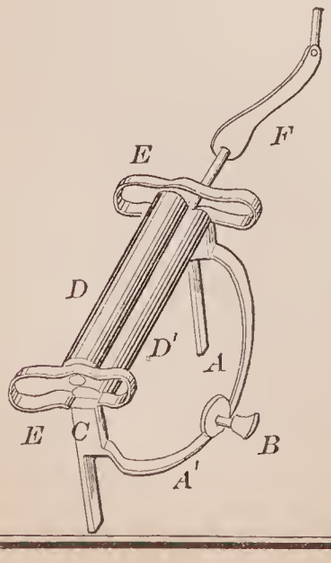
75230—W. Wickersham—*Marble Cutting Machine.*



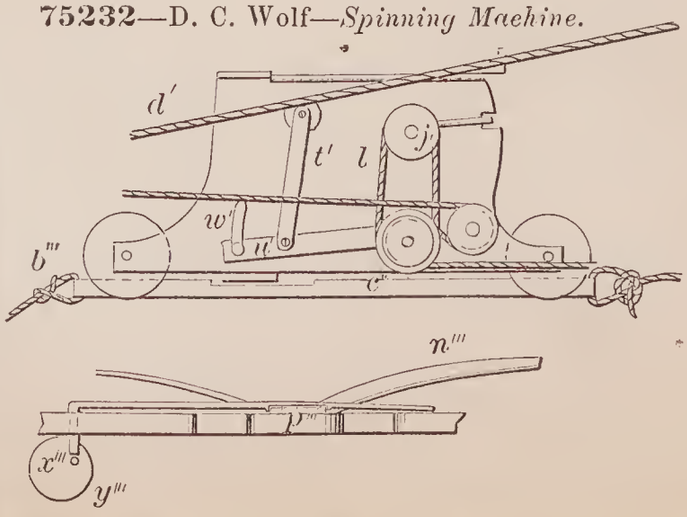




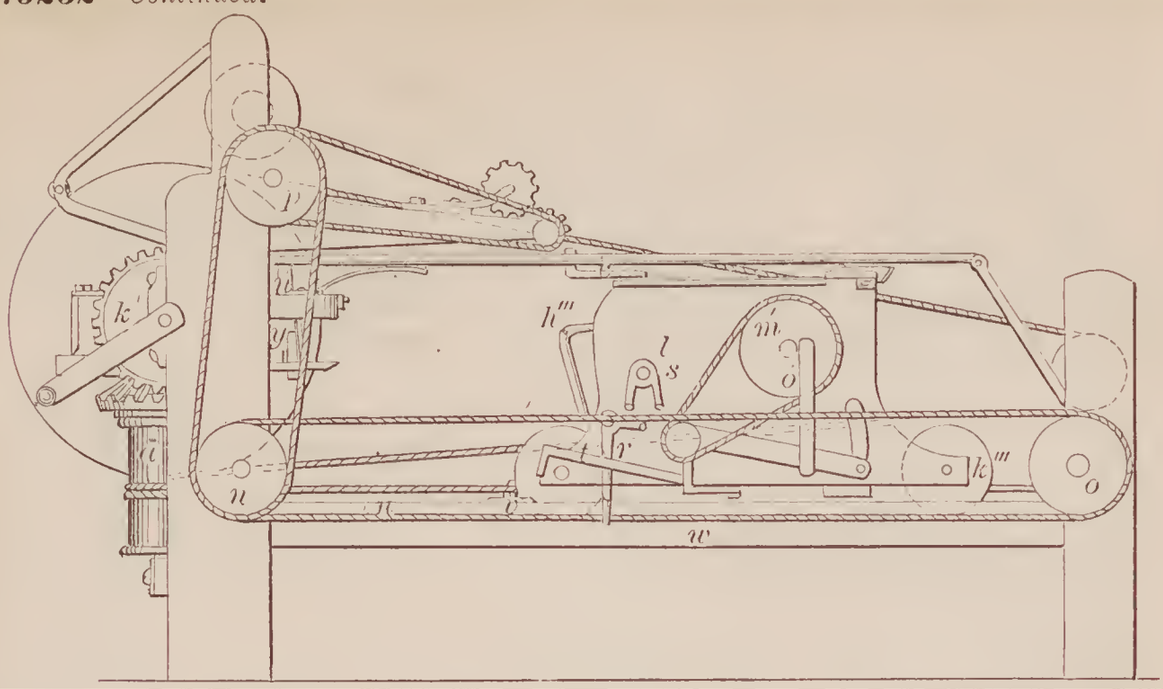
75231—G. L. Witsil—*Clothes Wringer.*



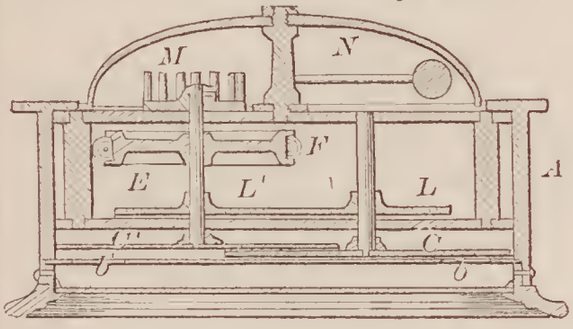
75232—D. C. Wolf—*Spinning Machine.*

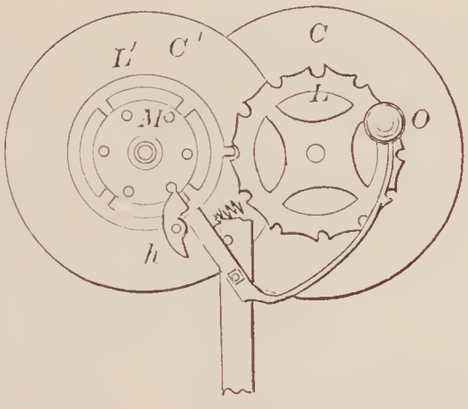


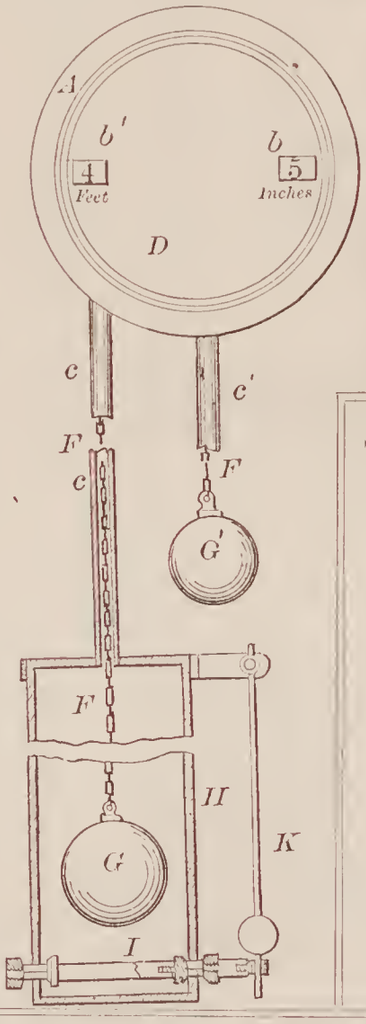
75232—*Continued.*



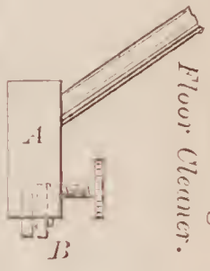
75235—T. P. Akers—*Leakage Measure,*



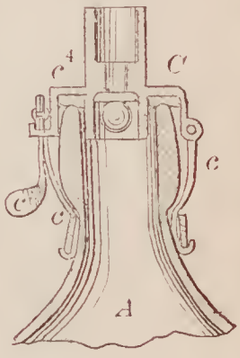




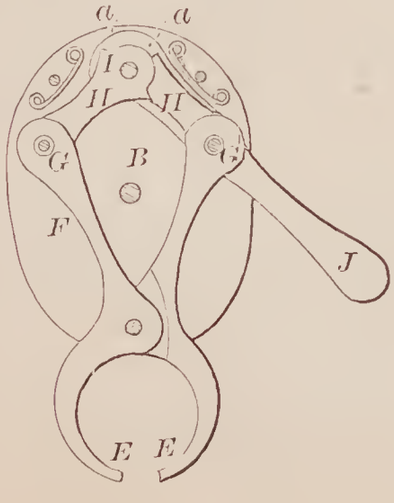
75236—A. Armstrong—*Floor Cleaner.*



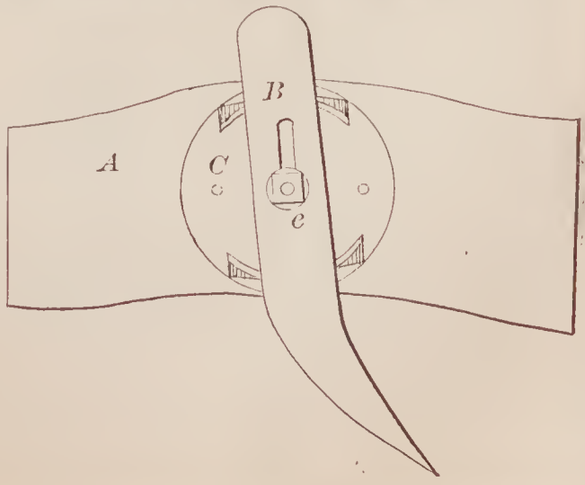
75233—I. Zamboni—*Bottle Stopper.*



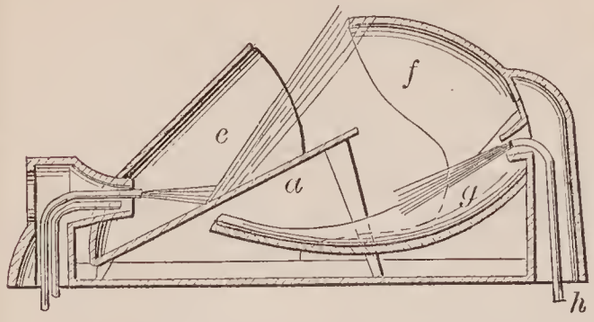
75234—N. B. Adams—*Boat Detaching Block.*



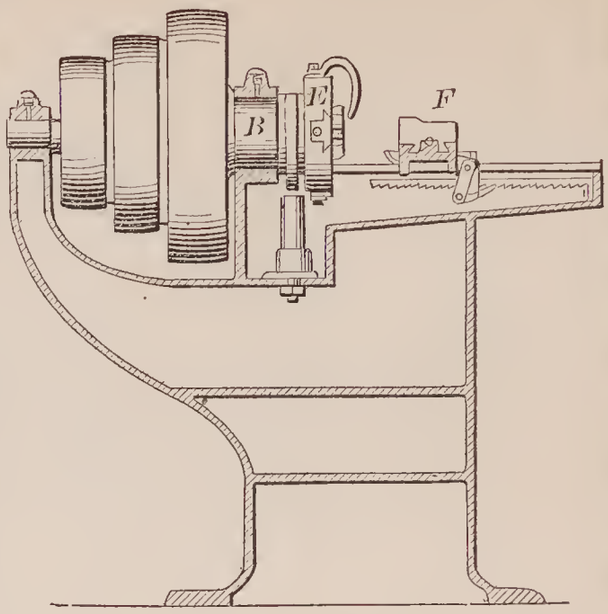
75237—J. Augho—*Coulter Holder.*

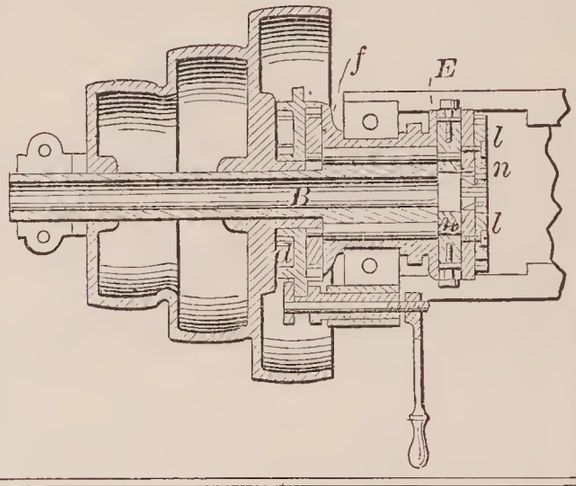


75238—H. Baldwin—*For Burning Crude Petroleum.*

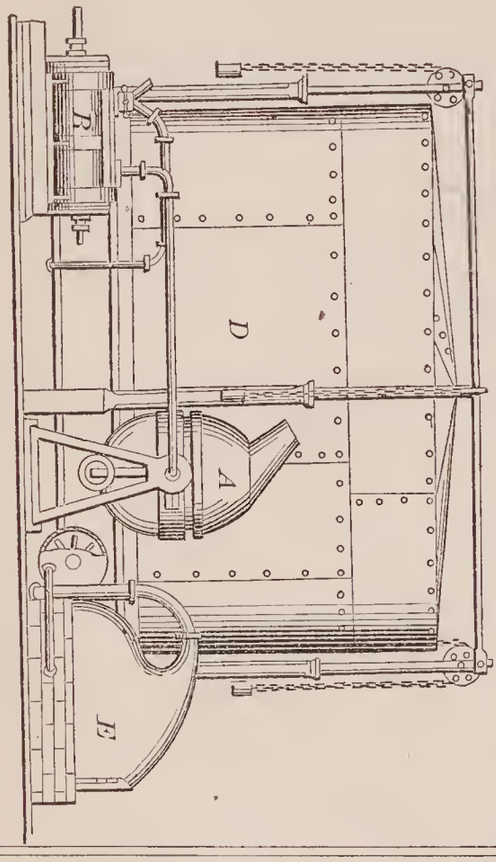


75239—W. B. Bement—*Bolt Threading Machine.*

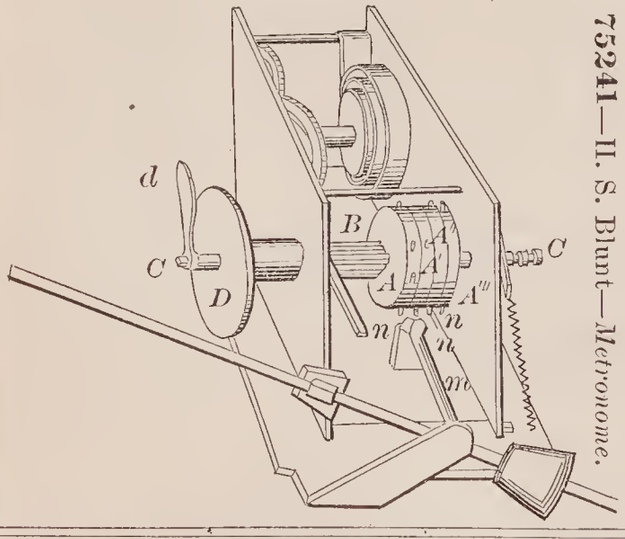




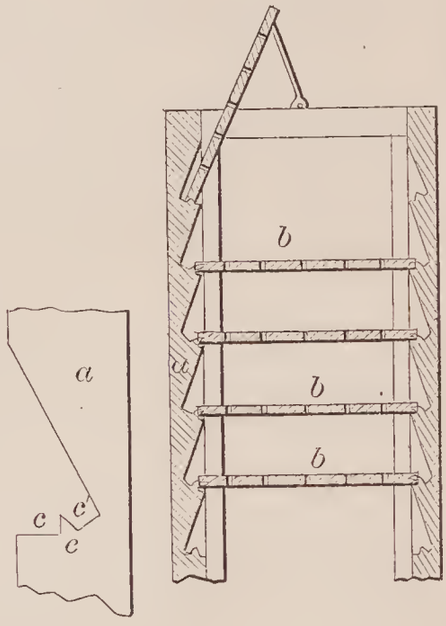
75240—J. F. Bennett—*Purifying Iron and Steel.*



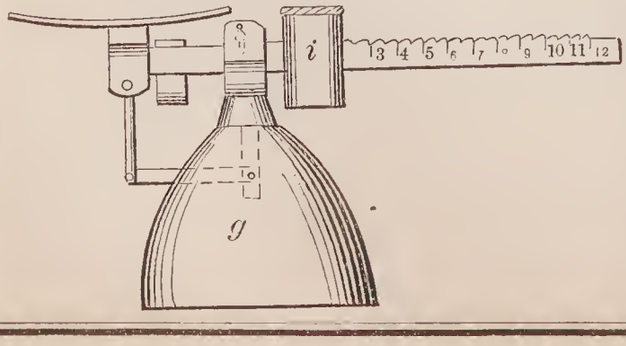
75241—H. S. Blunt—*Metronome.*



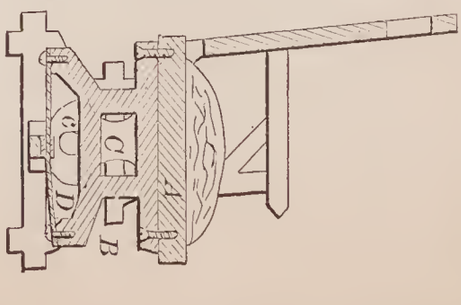
75243—J. K. Caldwell—*Brick Carrying Car.*



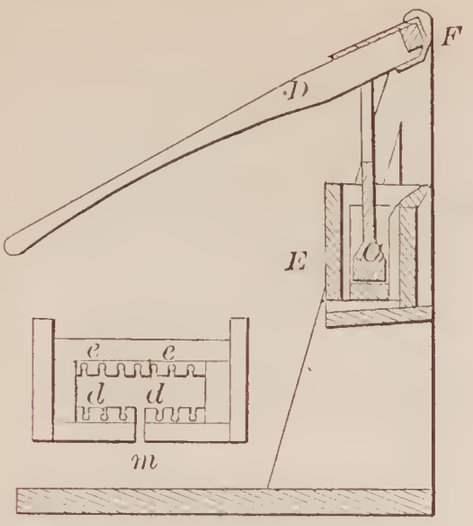
75244—B. Chambers, Jr.—*Letter Balance.*



75246—C. W. Conant—*Rocking Chair.*

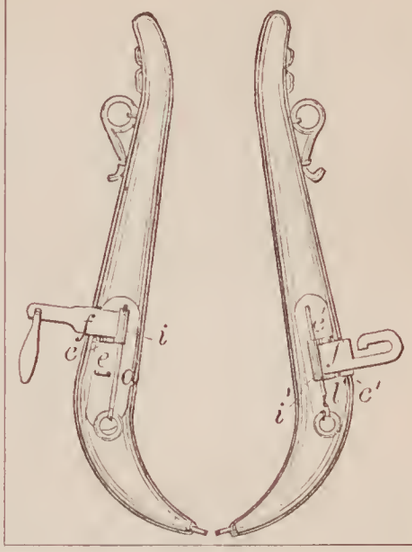


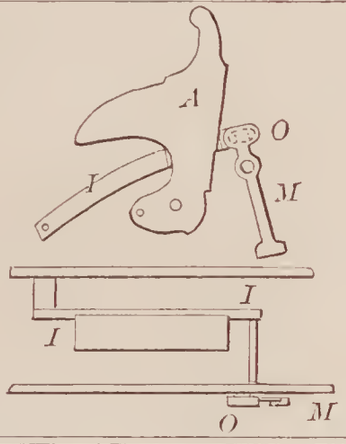
75247—Covey & Duffy—*Mop Press.*



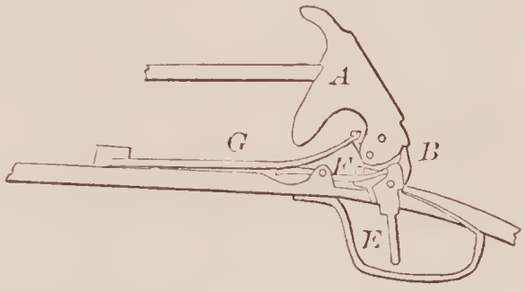
75249—J. D. Cramer—*For Raising and Lowering Window Sash.*

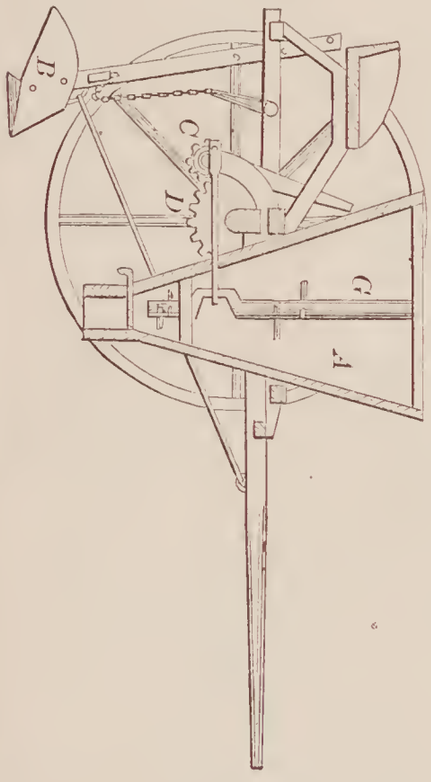
75250—B Crawford—*Hames.*



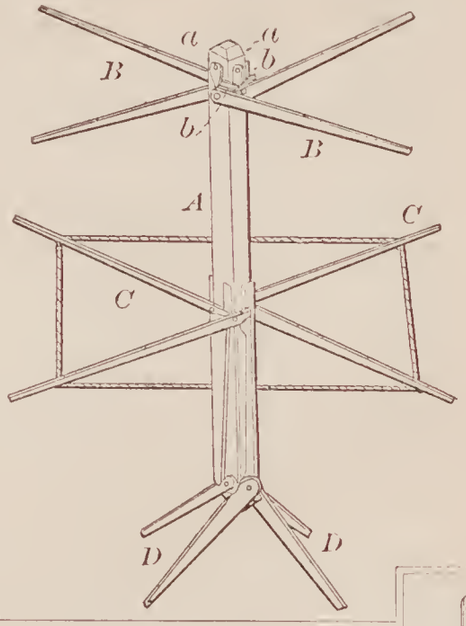


75248—J. F. & W. N. Crabtree—*Gun Lock.*



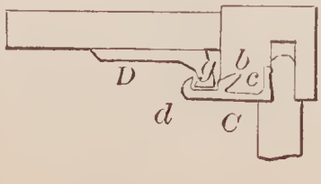


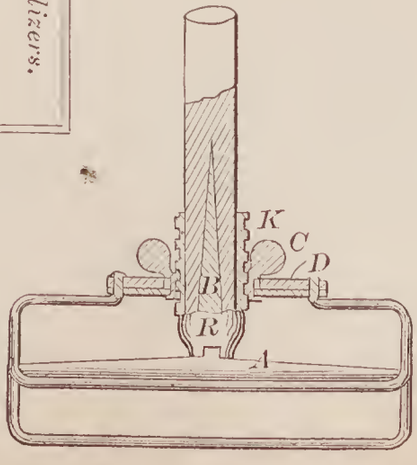
75252—J. S. Edwards—*For Distributing Fertilizers.*



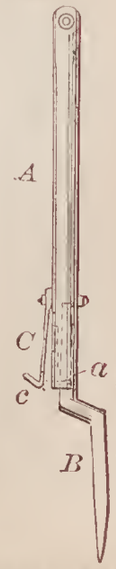
75251—H. Du Bois—*Clothes Dryer.*

75254—B. Essig—*Bedstead Fastening.*



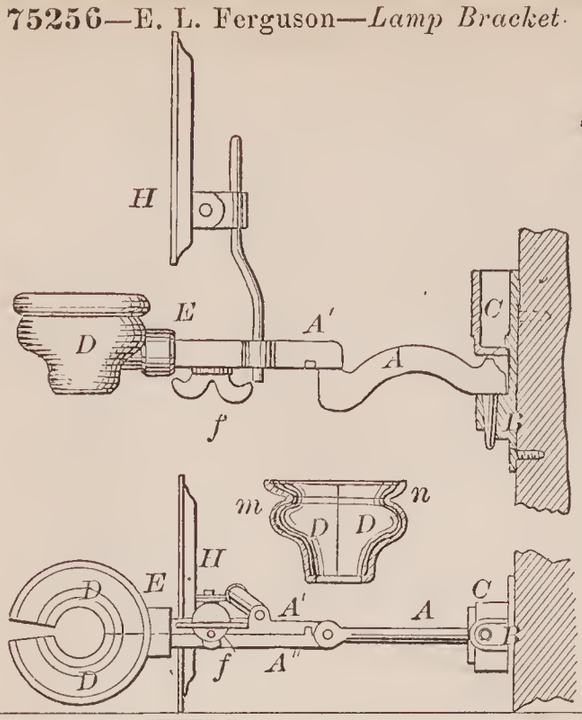


75253—R. W. English—*Mop Head.*

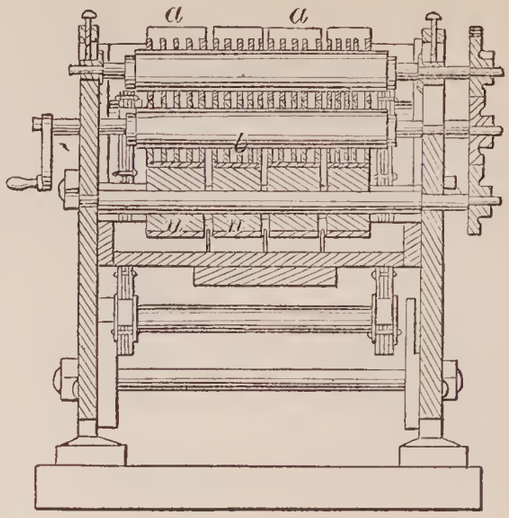


75255—G. Fenton—*Hay Knife.*

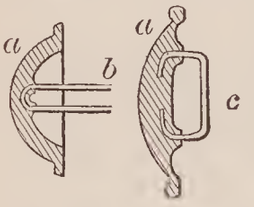
75256—E. L. Ferguson—*Lamp Bracket.*



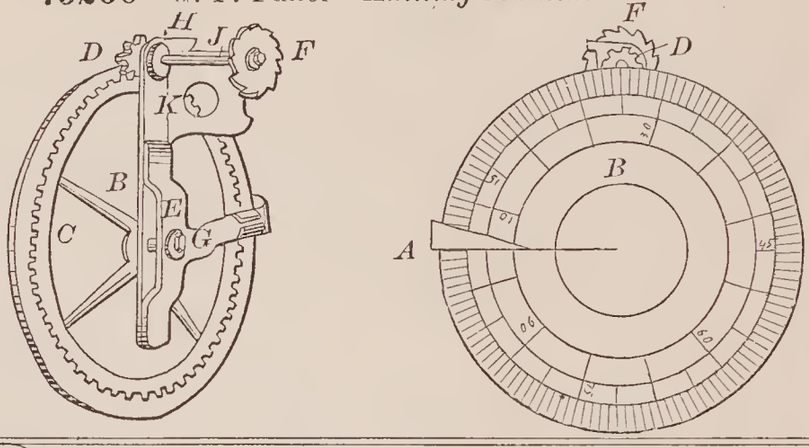
75259—J. Forrest—*For Printing Yarn.*



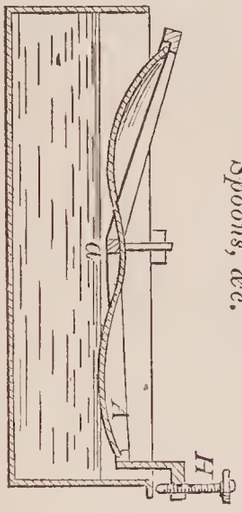
75257—M. A. Fisk—*Harness Trimming.*



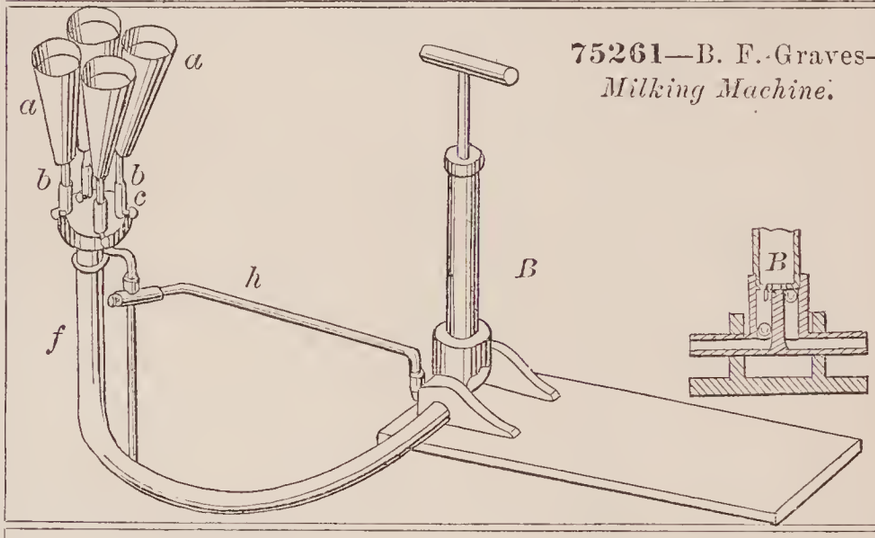
75260—G. P. Fuller—*Knitting Machine.*



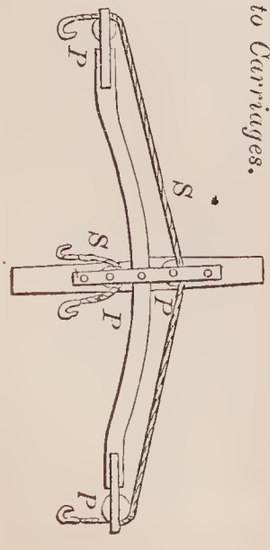
75258—M. L. Forbes—*Plating Spoons, &c.*



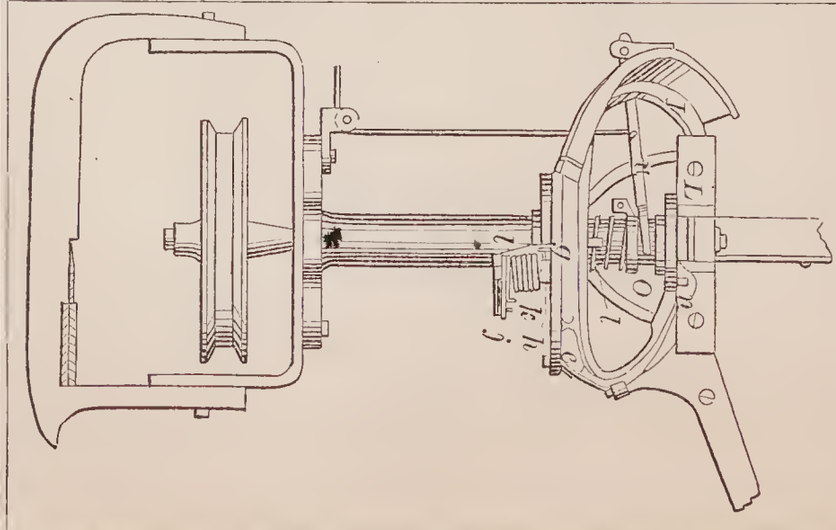
75261—B. F. Graves—*Milking Machine.*



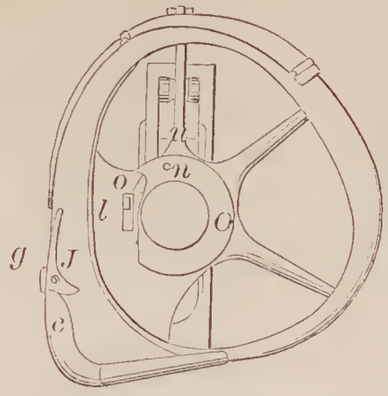
75262—Hale & Flagler—*Attaching Animals to Carriages.*



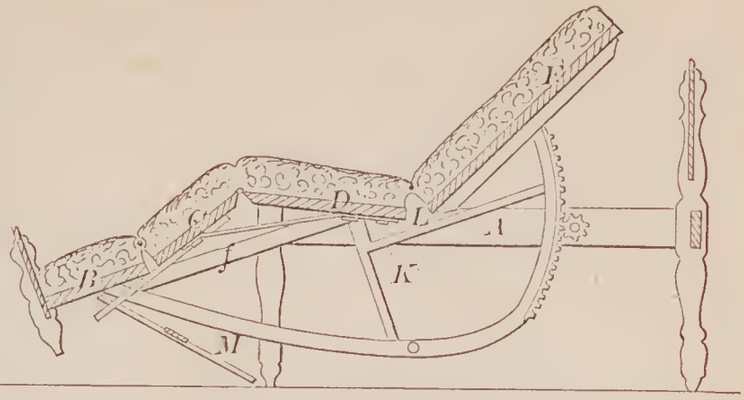
75263—T. Harding—*Harvester Rake.*



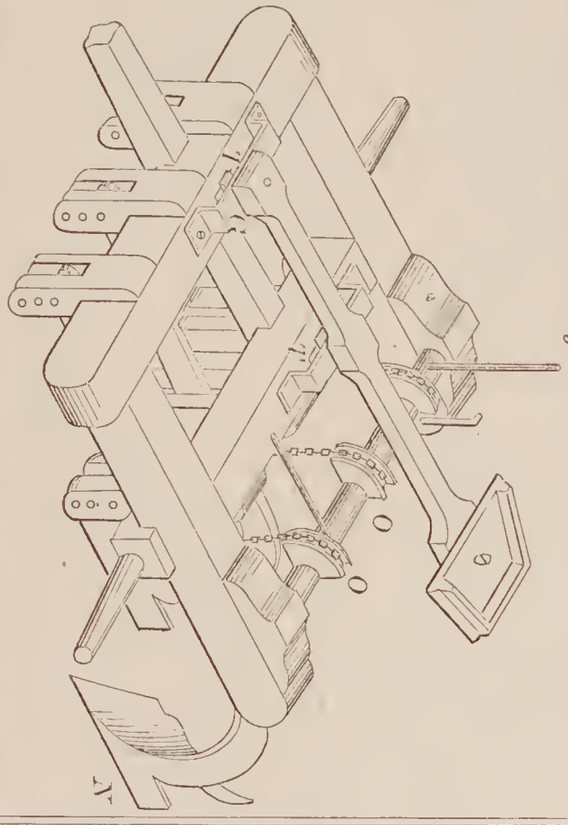
75263—*Continued.*



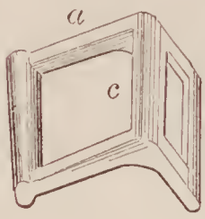
75265—W. Heath—*Invalid Bedstead.*



75268—C. Hess—*Gang Plow.*

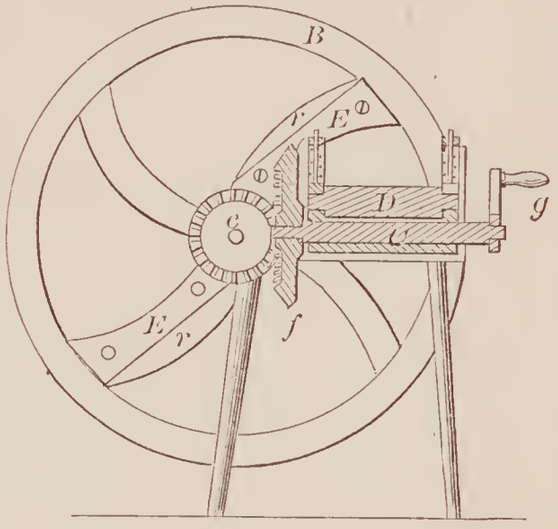


75267—J. W. Hedenburg—*Cotton Bale Tie.*

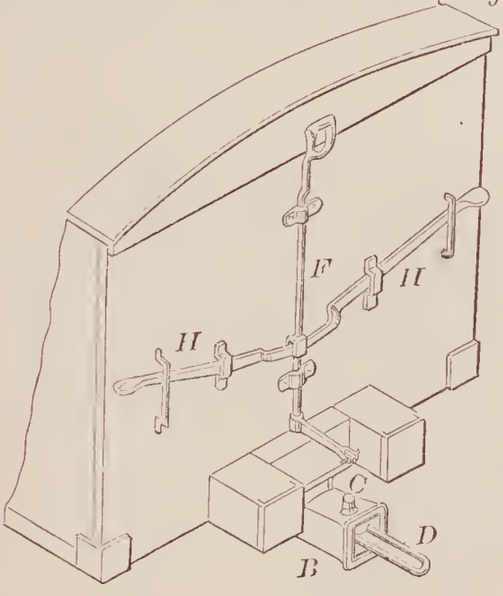


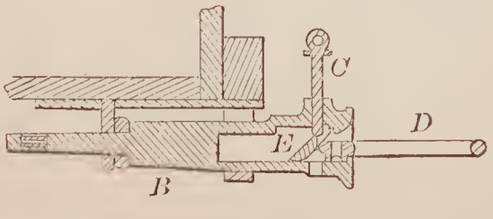
75266—E. Heaton—*Shank Spring.*

75269—L. B. Hoit—*Straw Cutter.*

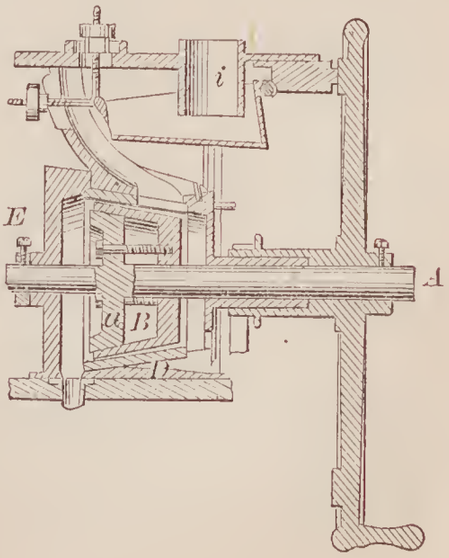


75270—W. H. Hoover—*Car Coupling.*

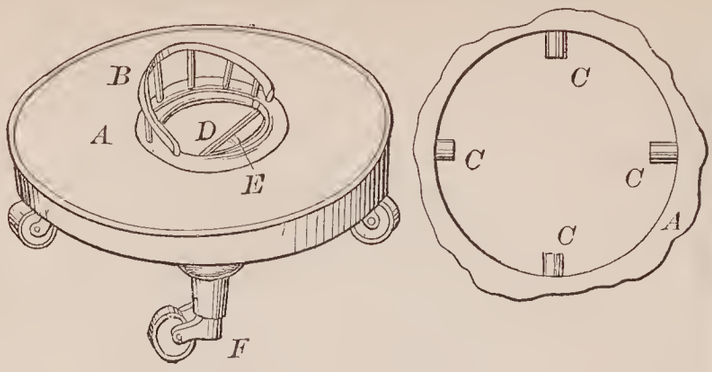




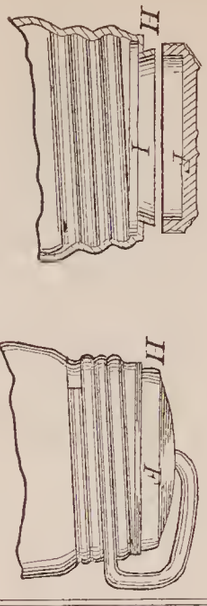
75273—Hubbard & Smith—*Grinding Mill.*



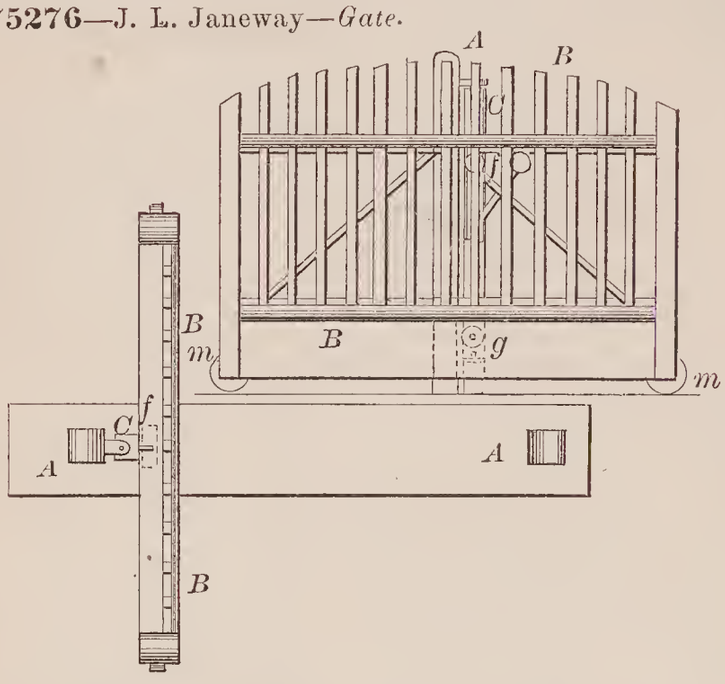
75274—P. H. Hurd—*Baby Creeper or Walker.*



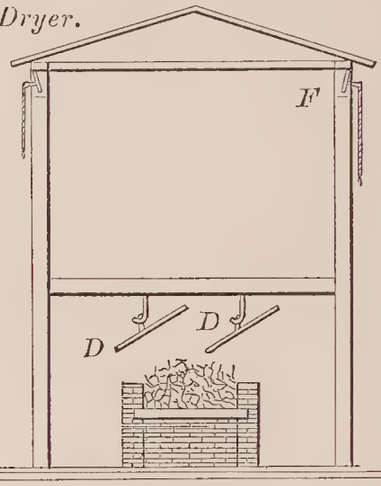
75275—W. L. Imlay—*Closing Fruit Jars.*



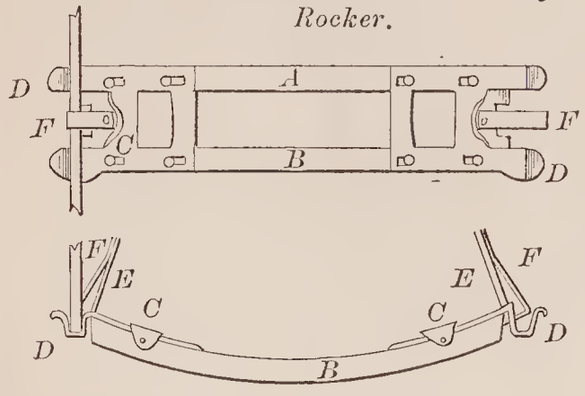
75276—J. L. Janeway—*Gate.*



75277—J. B. Johnson—*Grain Dryer.*

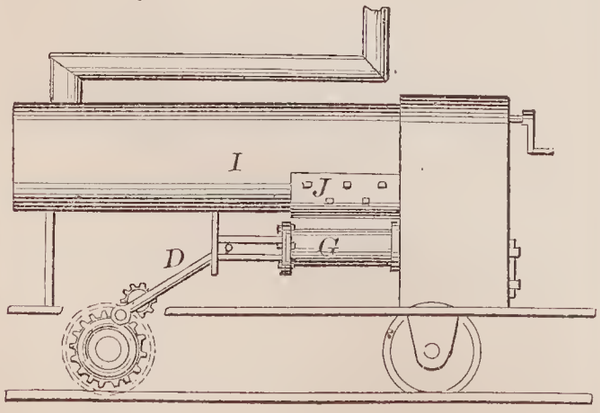


75278—A. D. Juelson—*Child's Carriage Rocker.*

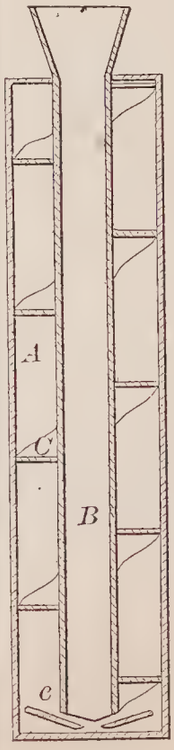


75281—A. D. Laws—*Lamp Wick Tube.*

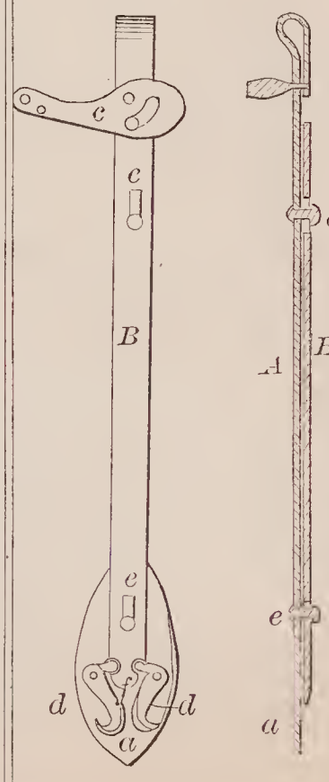
75280—S. L. Langdon—*Locomotive Engine.*



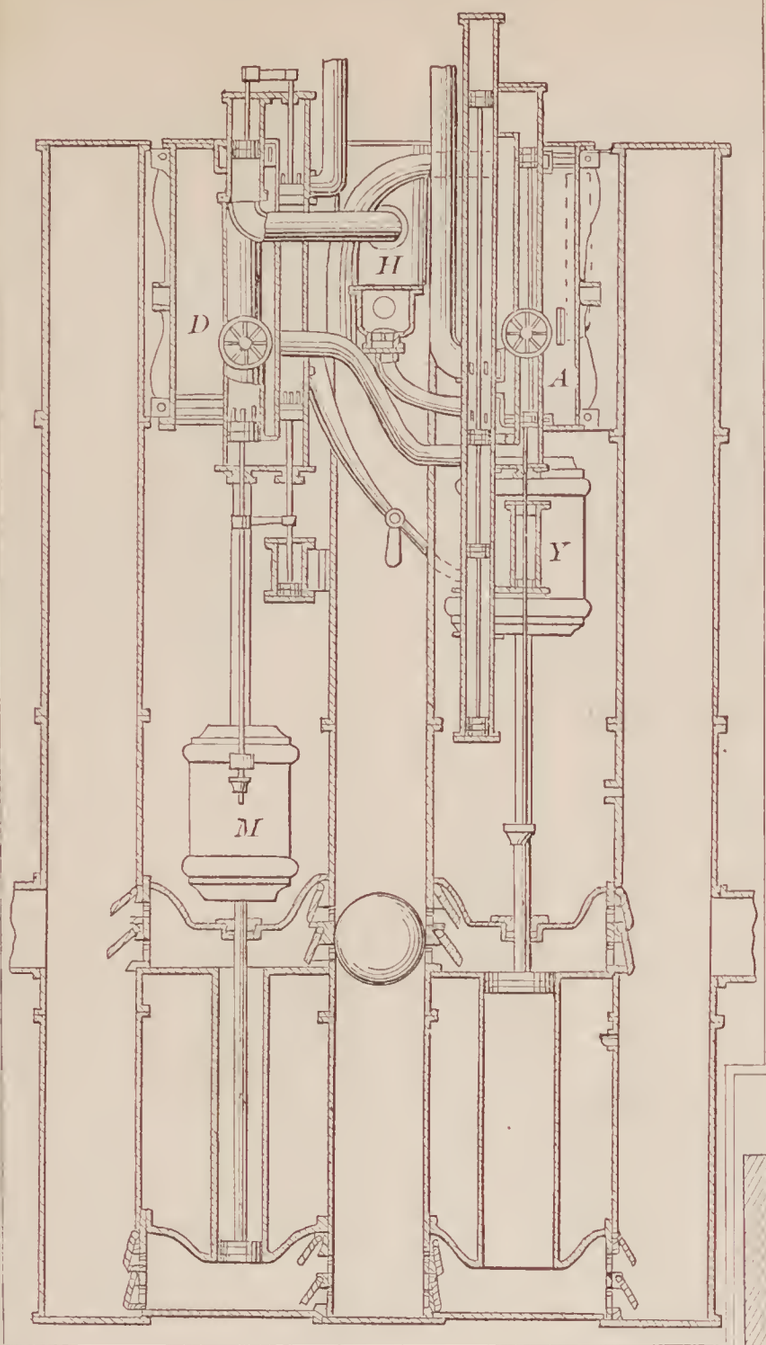
75279—P. M. Kafer—*Steam Generator Tube.*



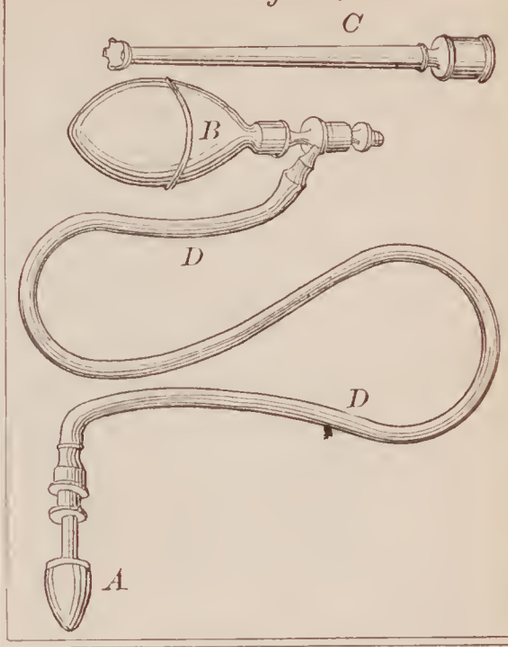
75282—J. E. Lobaell—*Horse Hay Fork.*



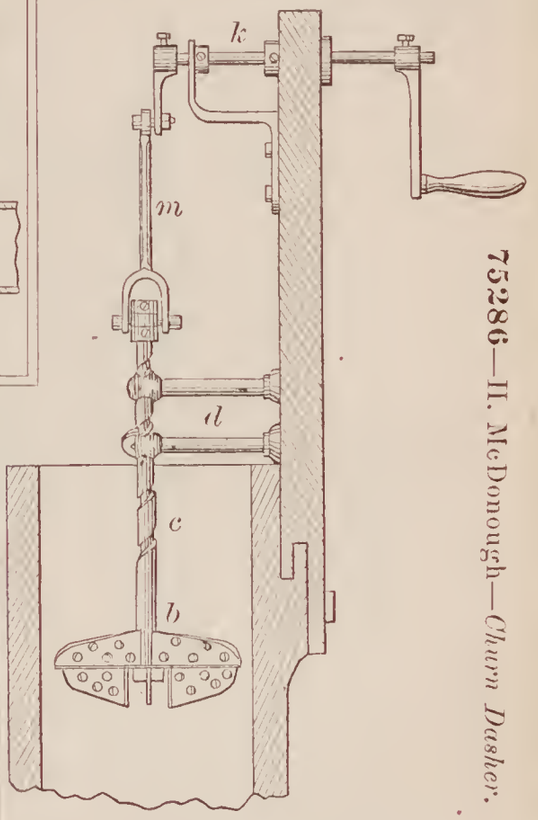
75283—J. L. Lowry—*Steam Engine.*



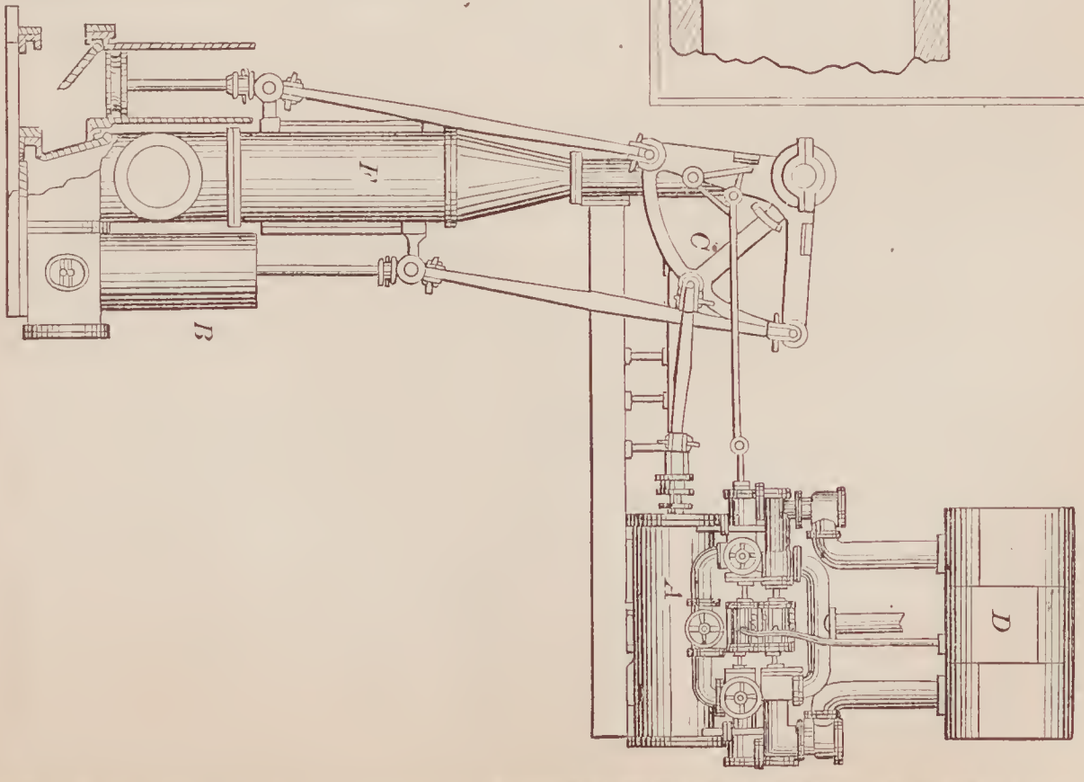
75285—M. Mattson—*Nasal Irrigator.*



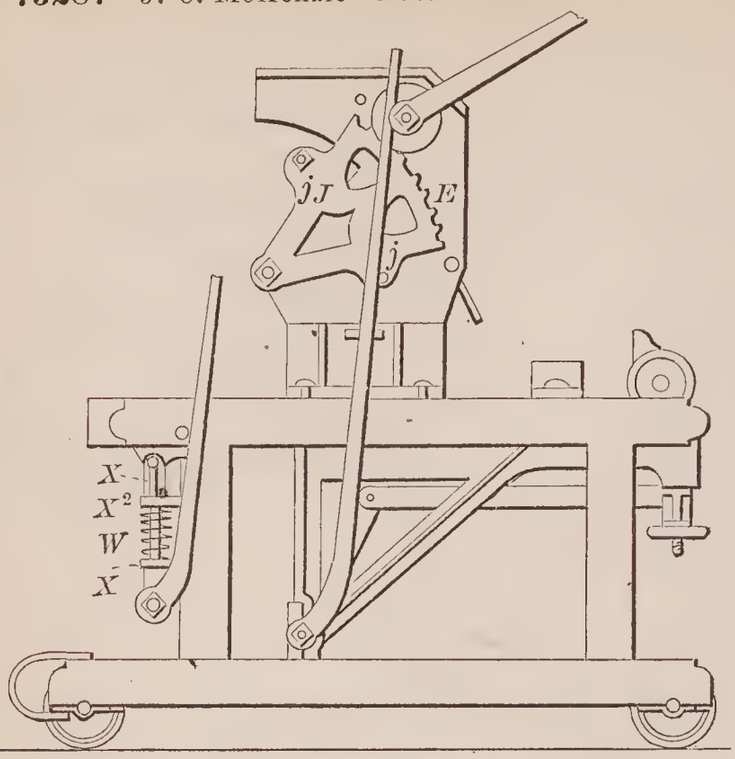
75286—H. McDonough—*Churn Dasher.*

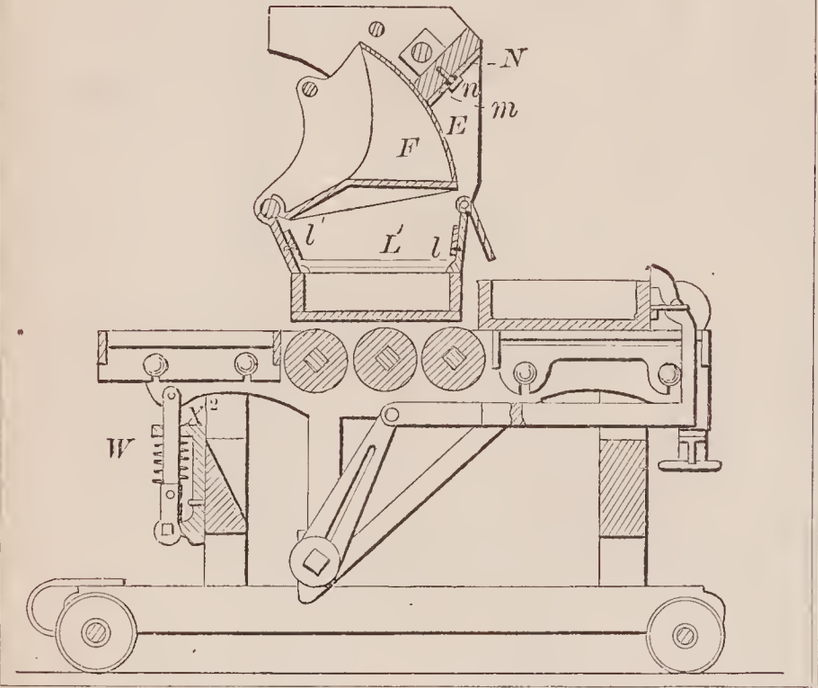


75284—J. L. Lowry—*Pumping Engine.*

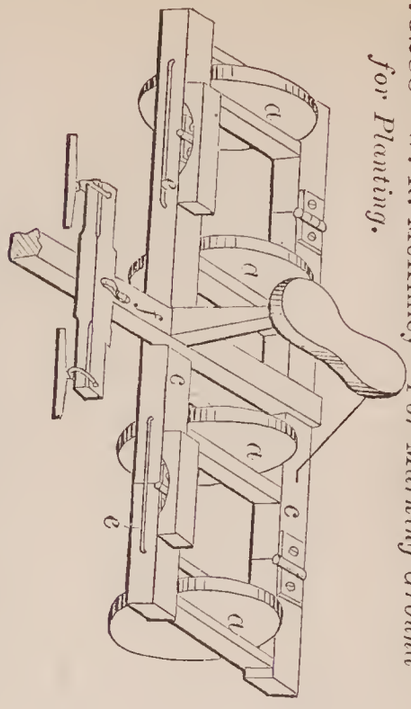


75287—J. C. McKenzie—*Brick Machine.*

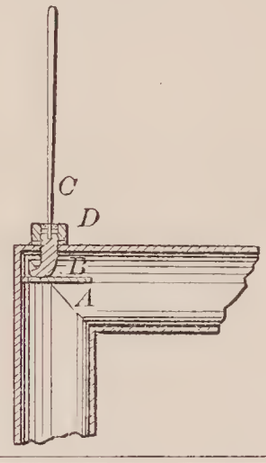




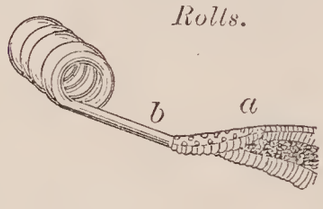
75288—W. R. McKinley—*For Marking Ground for Planting.*



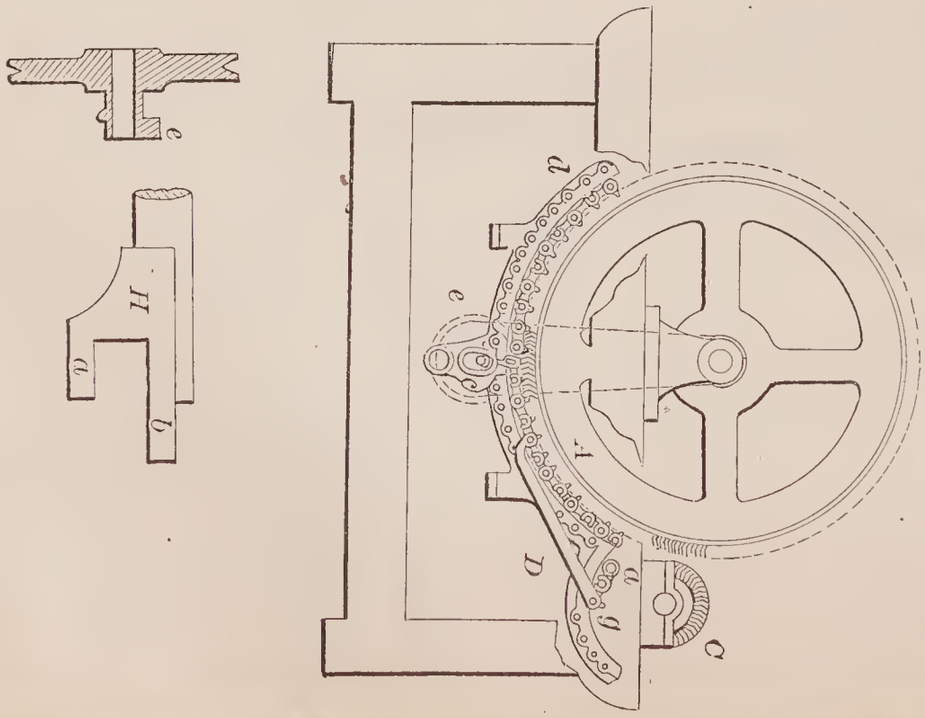
75291—J. W. Mortimer—*Stove Pipe Cleaner.*



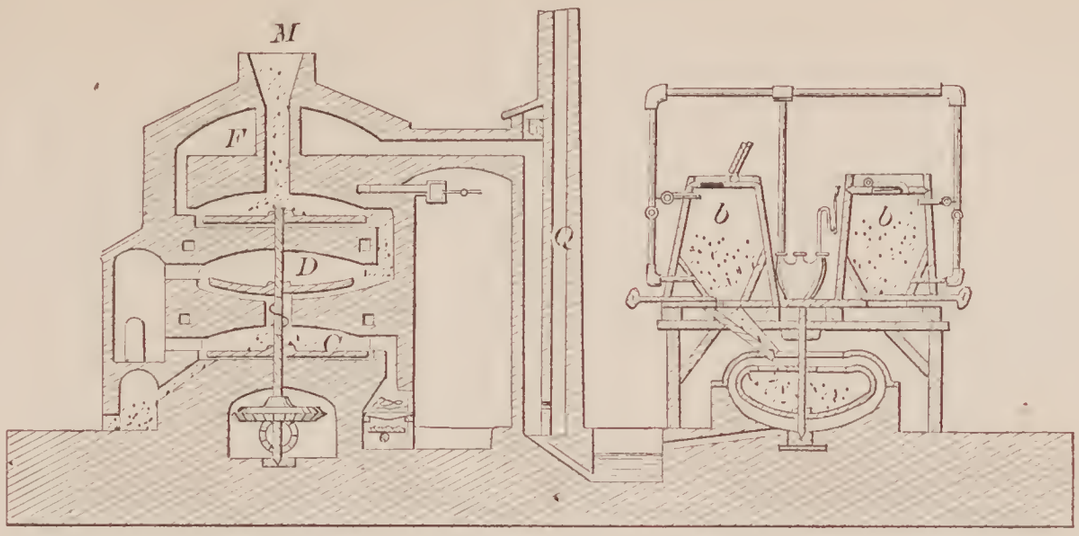
75292—J. Moulton—*Elastic Rolls.*



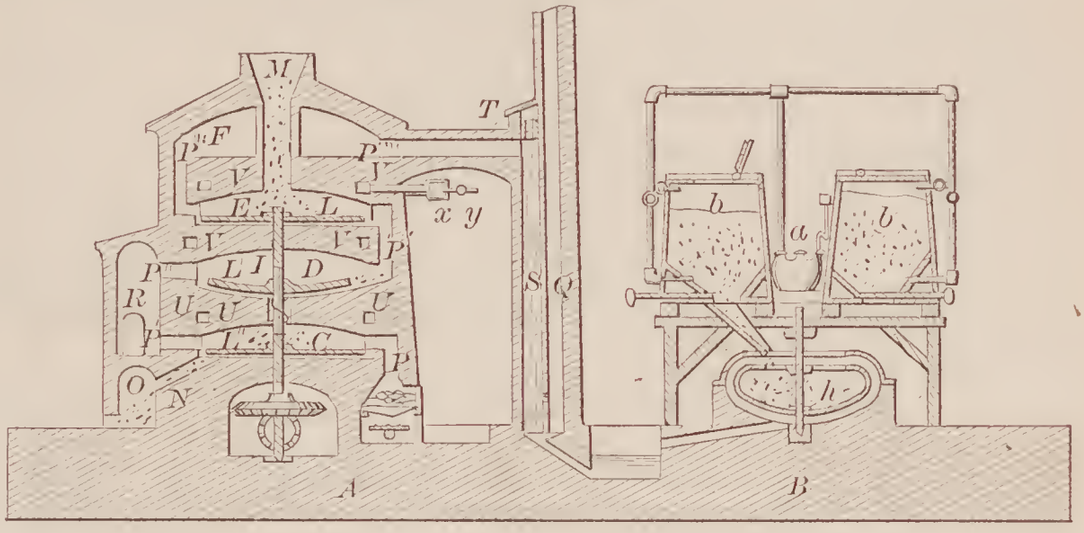
75290—L. Monroe—*Rack for Carding Engines.*



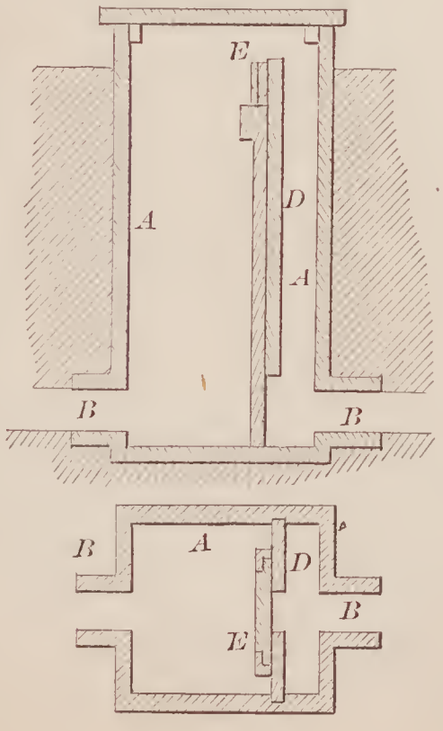
75293—A. Ott—*Extracting Precious Metals from Ores.*



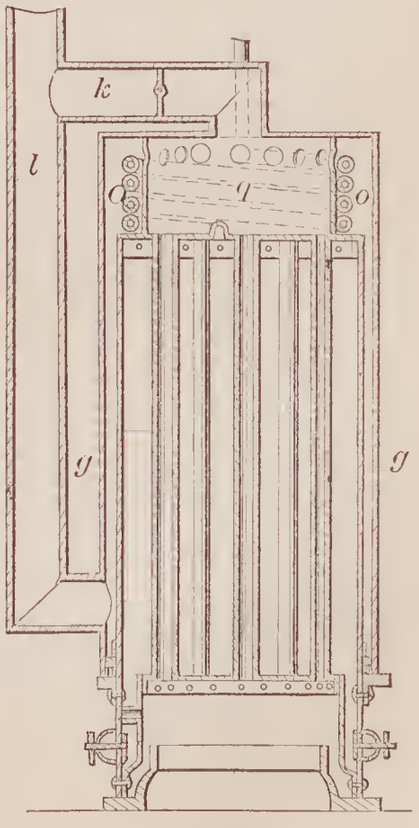
75294—A. Ott—*For Extracting Precious Metals.*



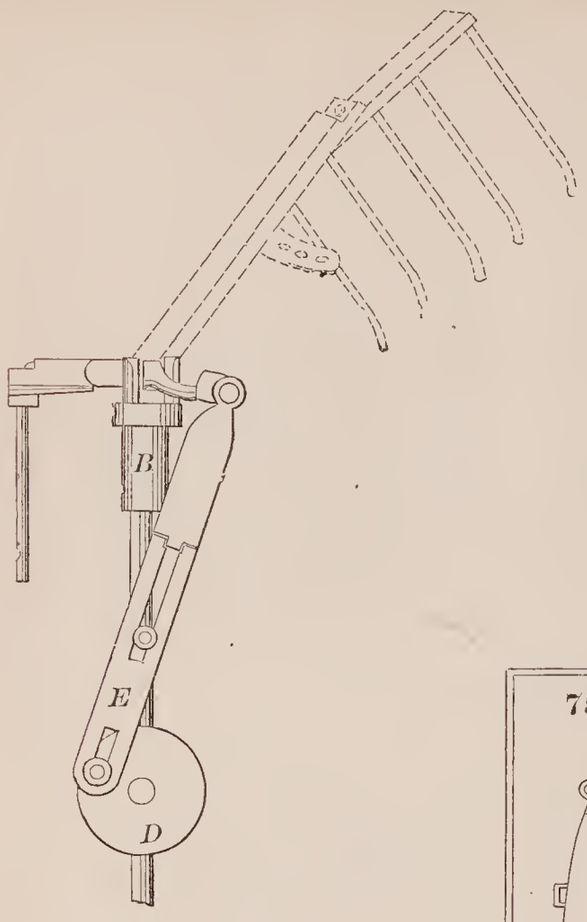
75295—D. A. Parks—*Penstock for Underground Drains.*



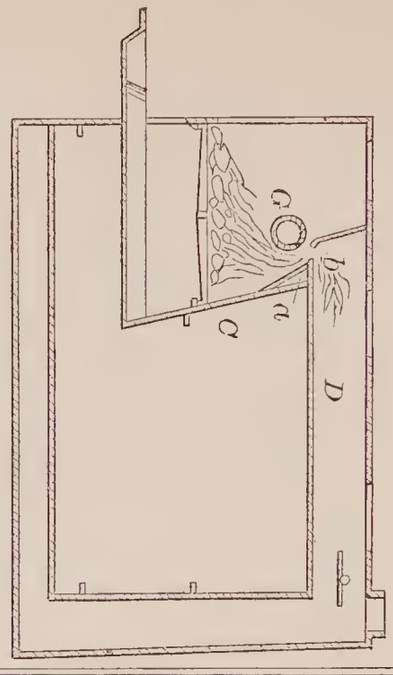
75296—P. Quinn—*Steam Generator.*



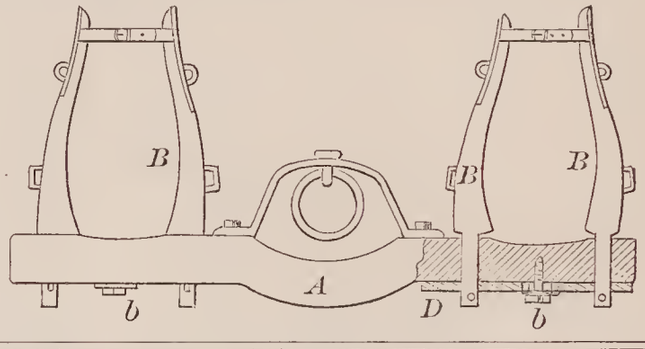
75297—O. Redmond—*Harvester Rake.*



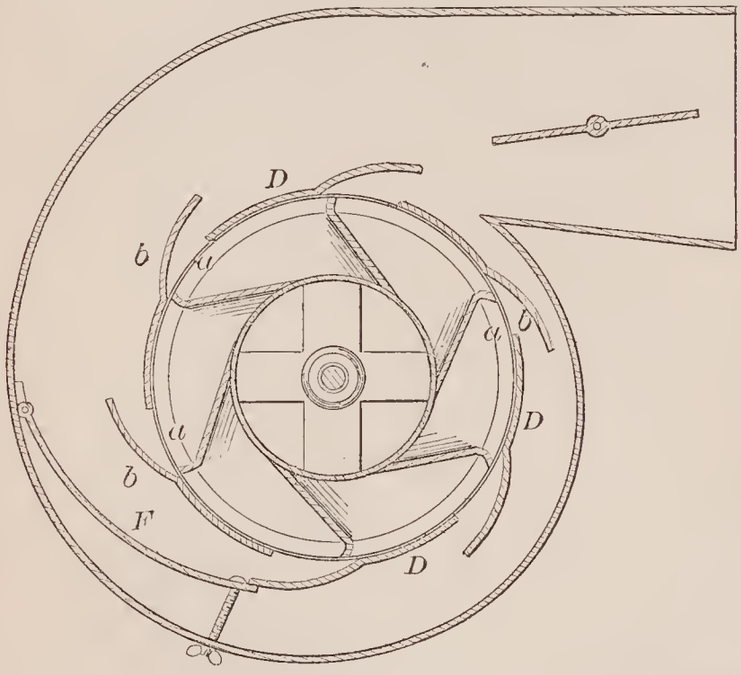
75300—G. Schreyer—*Furnace.*



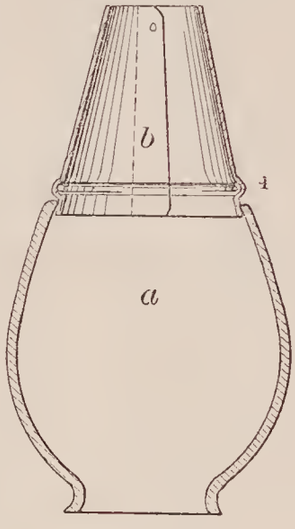
75299—E. Sanford—*Horse Yoke.*



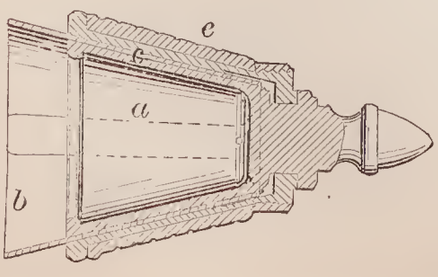
75298—T. Rose—*Scroll for Water Wheels.*



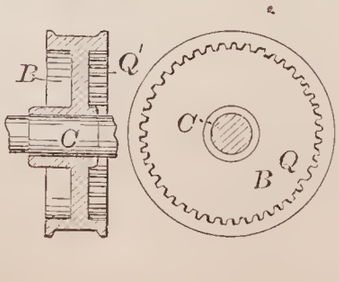
75302—F. I. Seymour—*Lamp Chimney.*

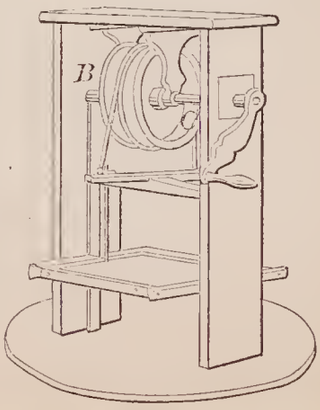


75303— F. I. Seymour—*Clamp for for Forming Sheet Metal Cones.*

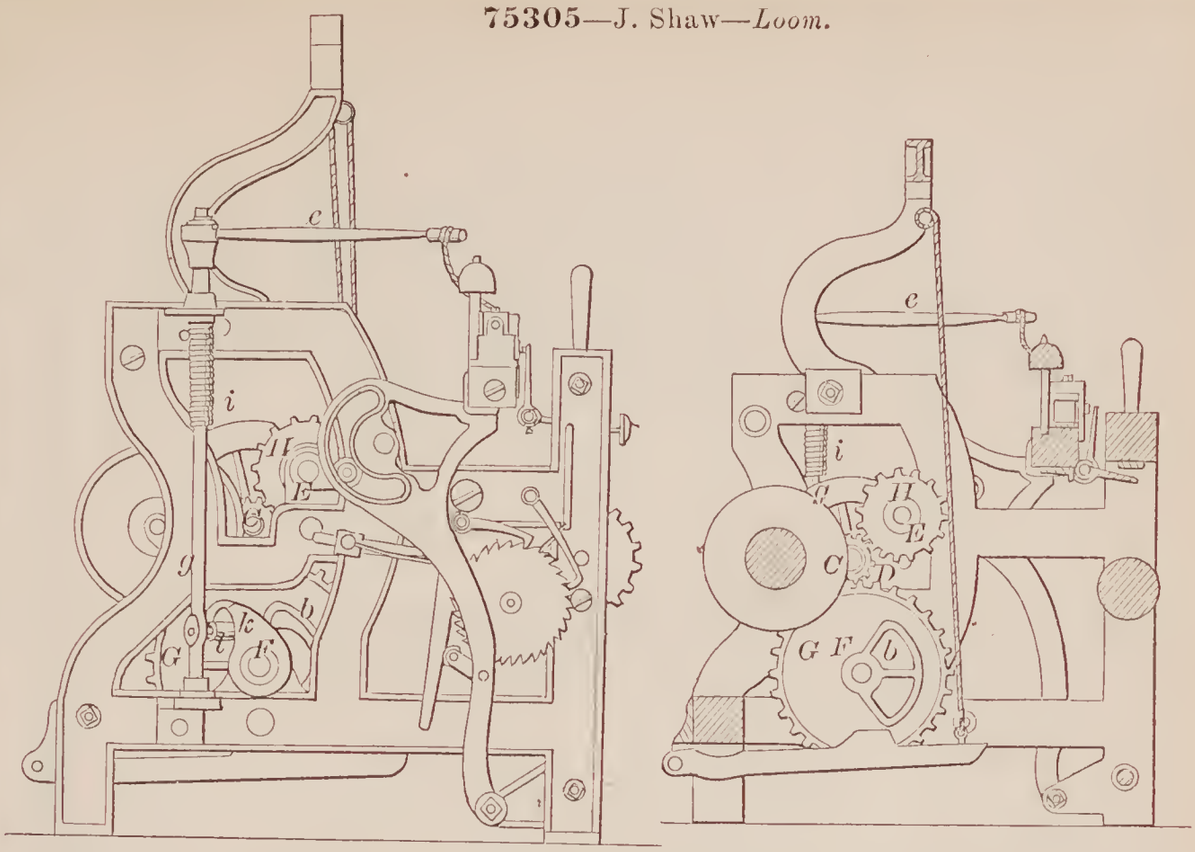


75304—H. F. Shaw—*Differential Gear Power Machine.*

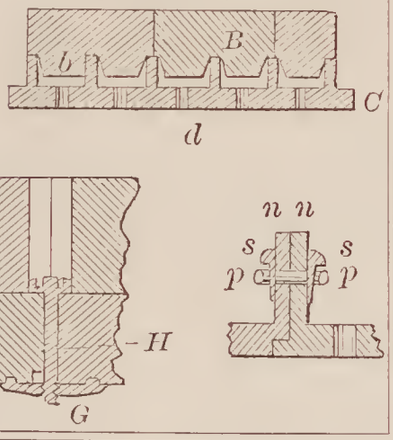




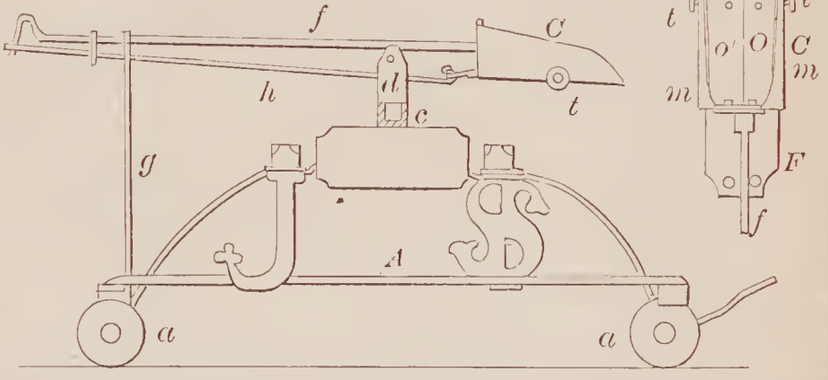
75305—J. Shaw—*Loom.*



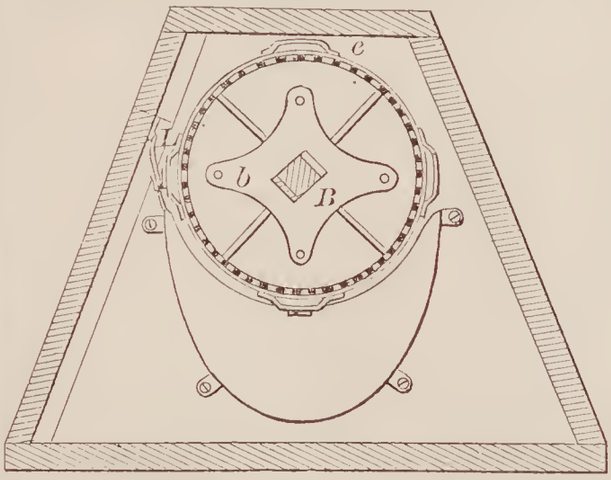
75309—C. W. Stafford—*Pavement.*



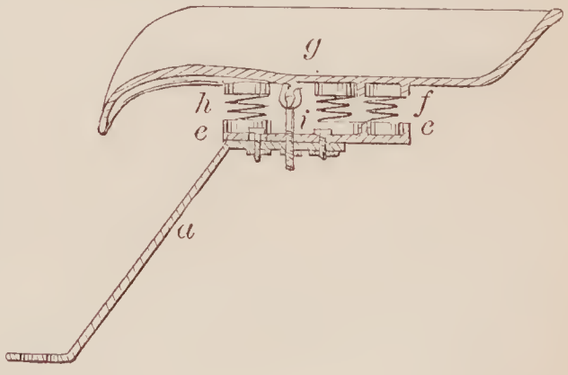
75308—Snediker & Bailey—*For Charging Gas Retorts.*



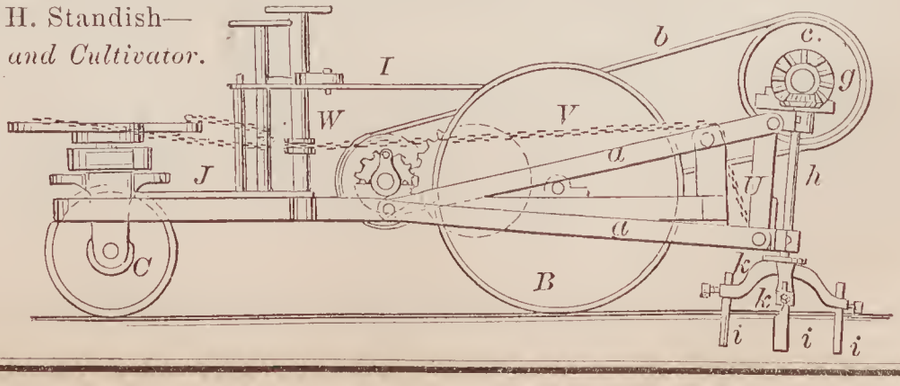
75307—S. A. Smith—*Flour Bolt.*



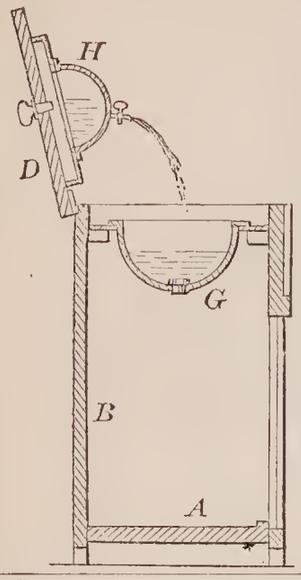
75306—E. A. Smith—*Harvester Seat.*



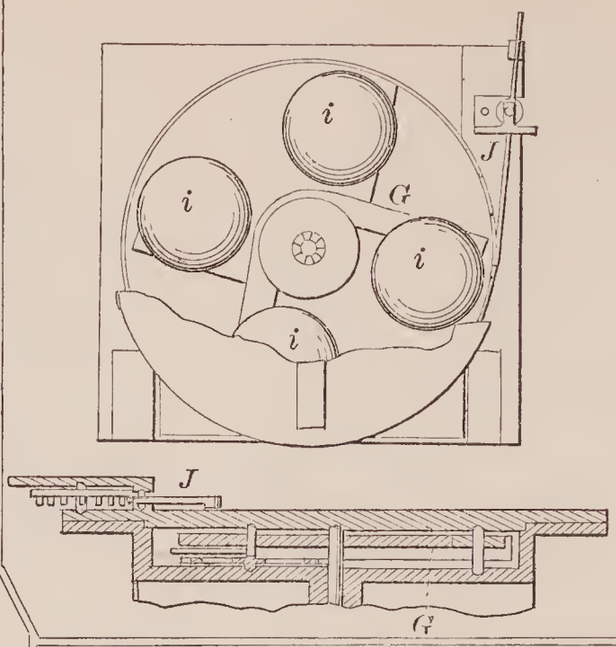
75310—P. H. Standish—*Steam Plow and Cultivator.*



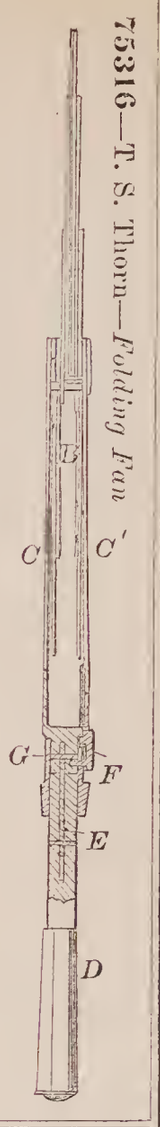
75311—A. Stankowitch—*Wash Stand*



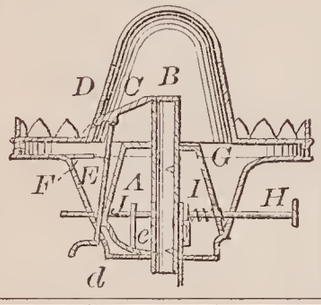
75313—C. Stein—*Fluid Meter.*



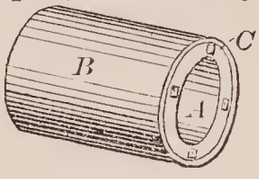
75316—T. S. Thorn—*Folding Fan*



75317—E. J. Toof—*Lamp Extinguisher.*

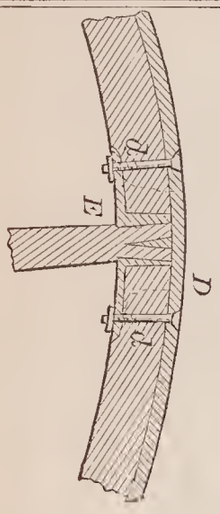


75315—R. H. Smith—*For Preventing Water Pipes from Bursting.*

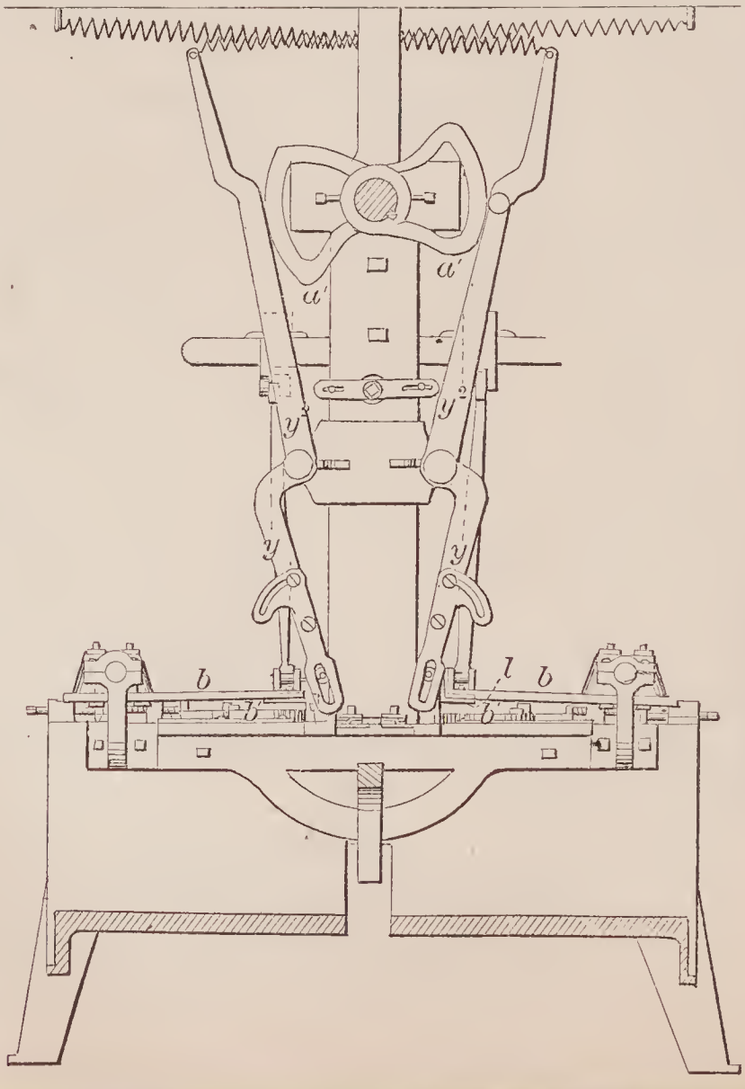


75319—W. Trowbridge—*Cotton Bale Tie.*

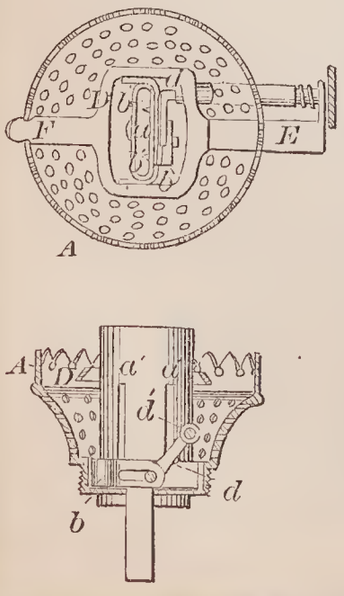
75314—J. Switzer—*Carriage Wheel.*



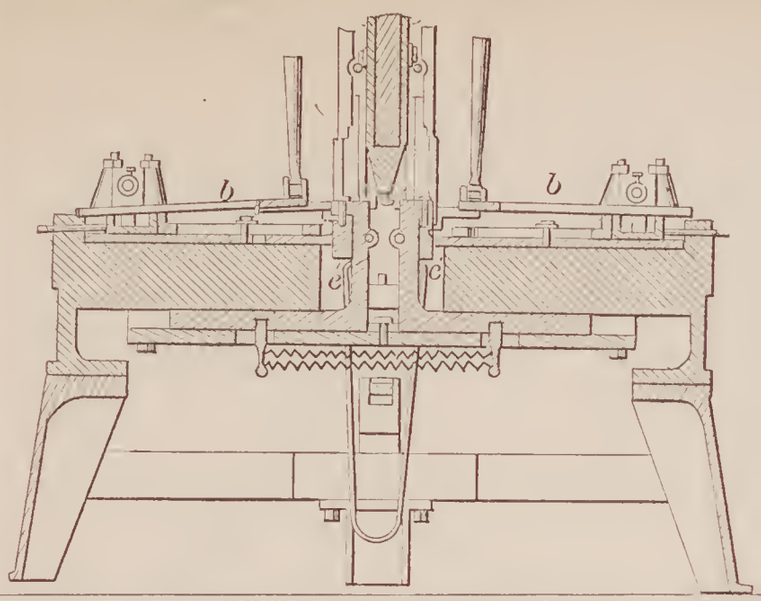
75320—Van Gieson & Crooke—*For Making Butt Hinges.*



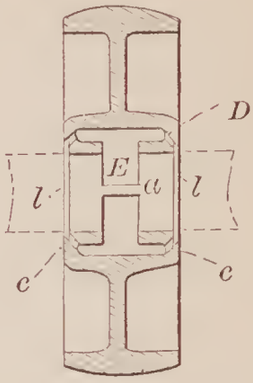
75318—E. J. Toof—*Wick Regulator.*



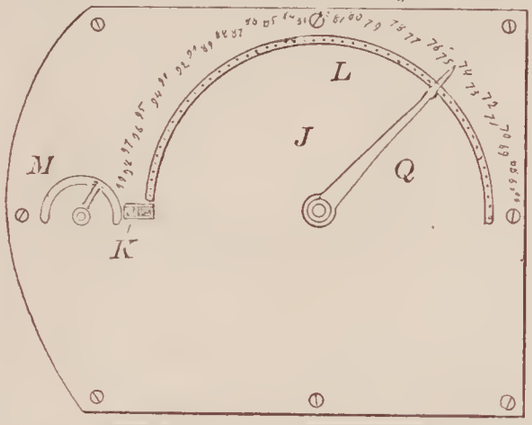
75320—*Continued.*

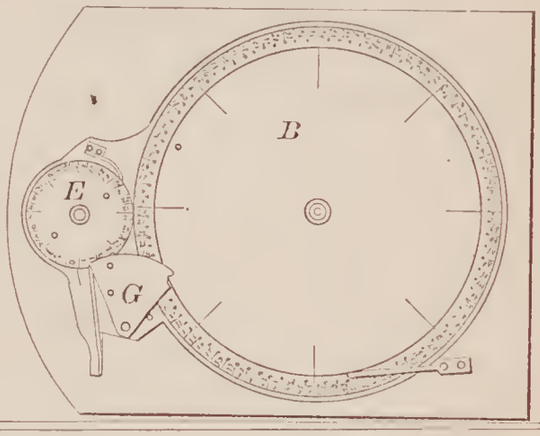


75323—D. M. Weston—*Self-Oiling Hub for Pulleys, &c.*

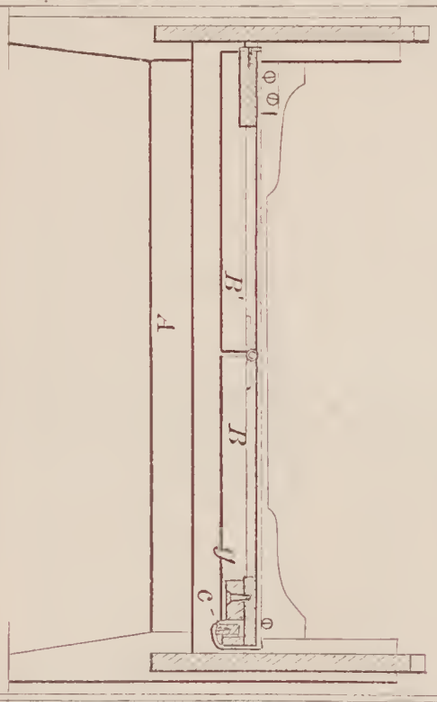


75322—C. H. Webb—*Adding Machine*

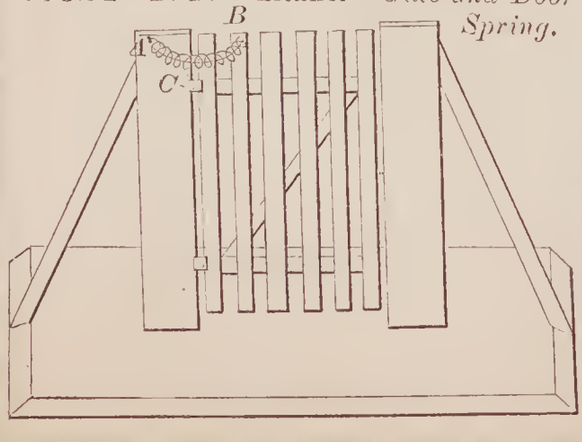




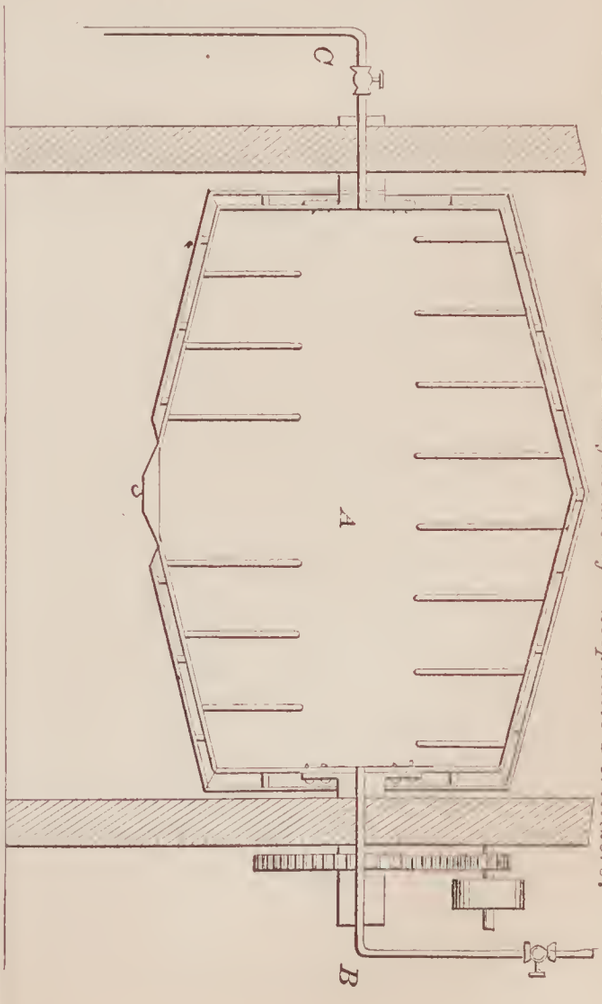
75321—H. B. Walbridge—*Bed Bottom.*



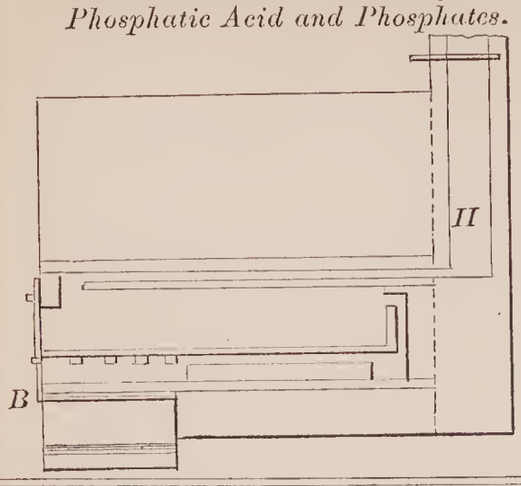
75324—B. F. Whitaker—*Gate and Door Spring.*



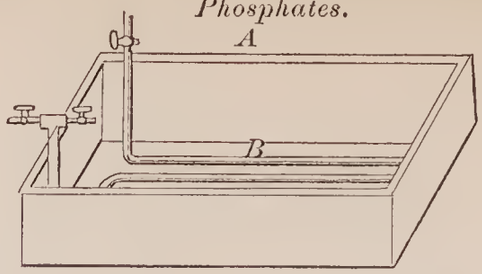
75325—G. F. Wilson—*Manufacture of Phosphatic Fertilizers.*



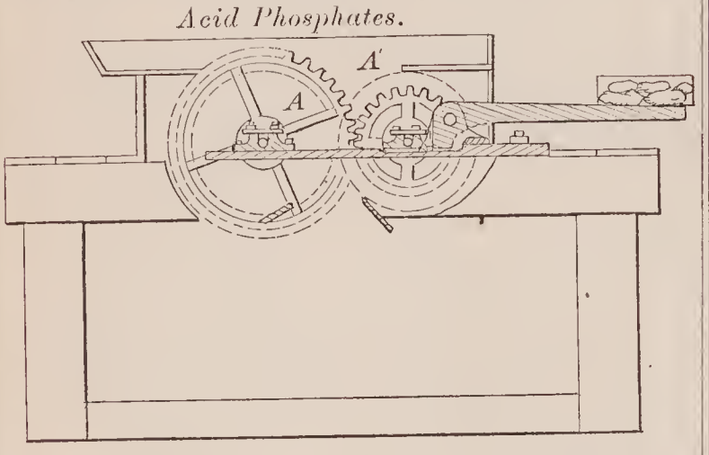
75326—G. F. Wilson—*Manufacture of Phosphatic Acid and Phosphates.*



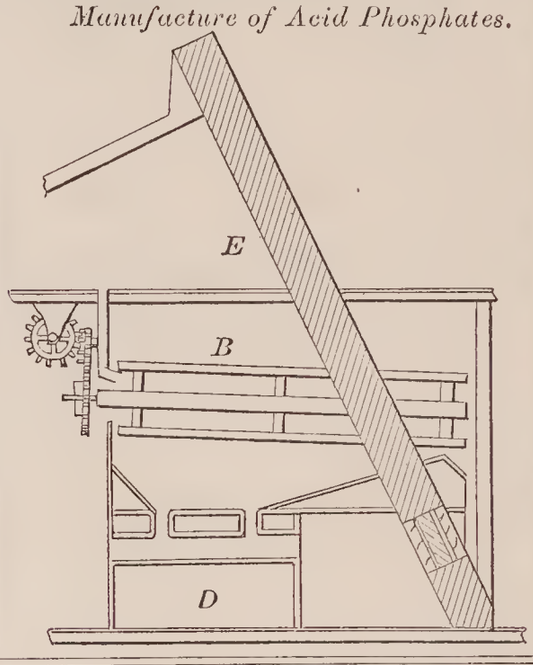
75327—G. F. Wilson—*Manufacture of Acid Phosphates.*



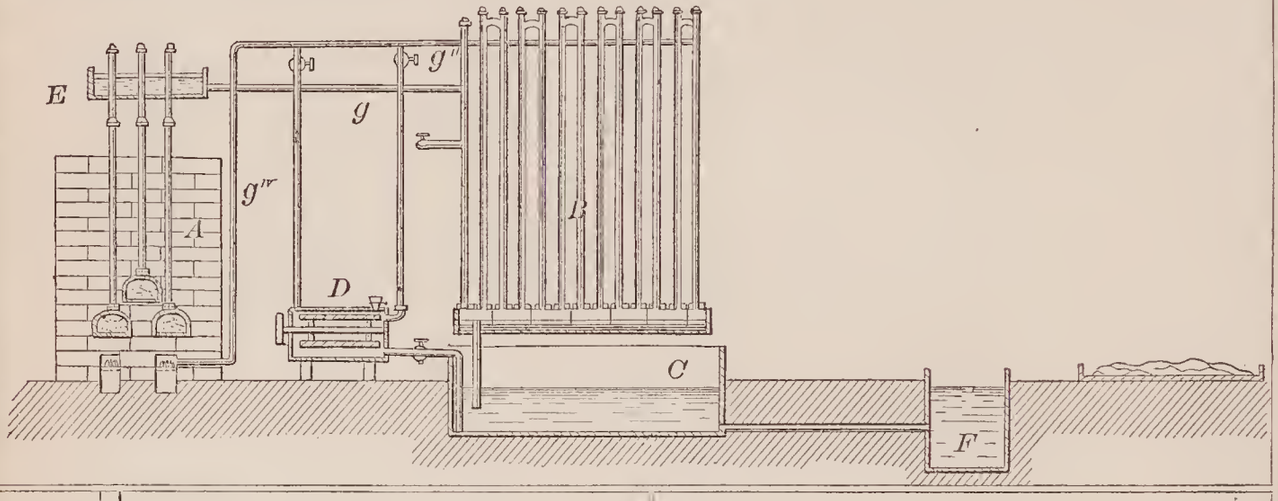
75328—G. F. Wilson—*Manufacture of Acid Phosphates.*



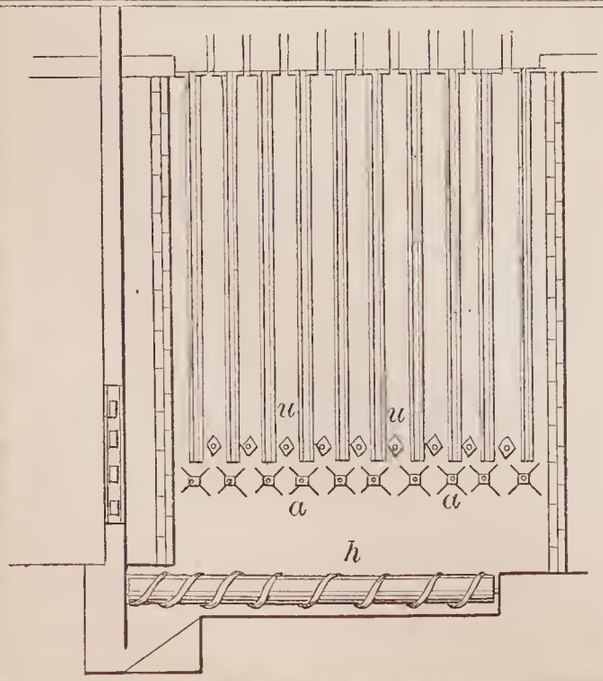
75331—G. F. Wilson—*For the Manufacture of Acid Phosphates.*



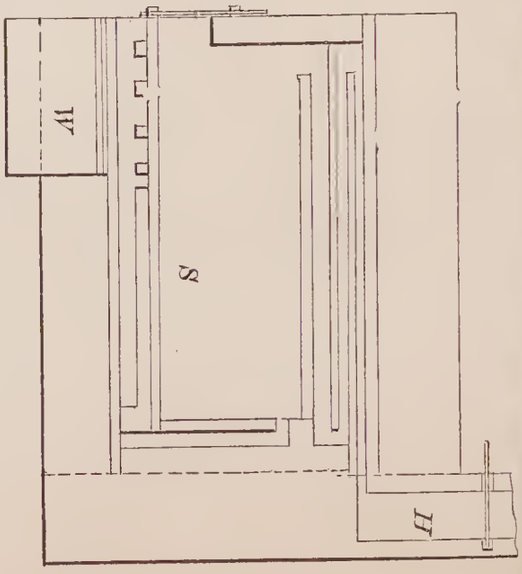
75329—G. F. Wilson—*Preparing Bones for the Manufacture of Acid Phosphates.*



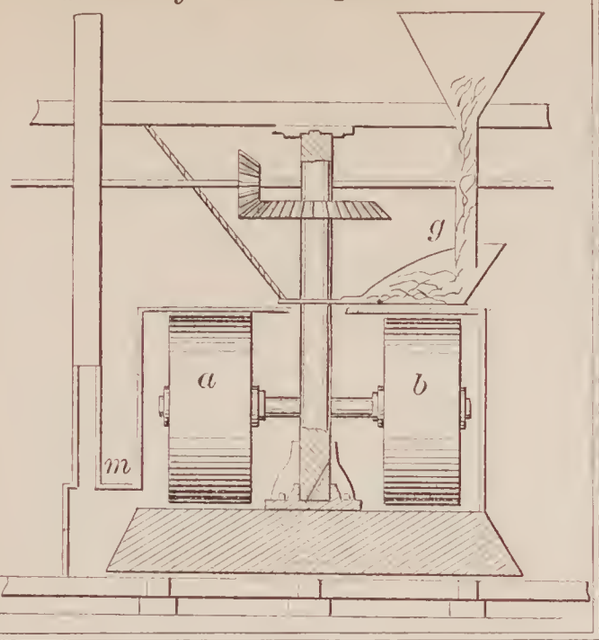
75330—G. F. Wilson—*Drying Acid Phosphates.*



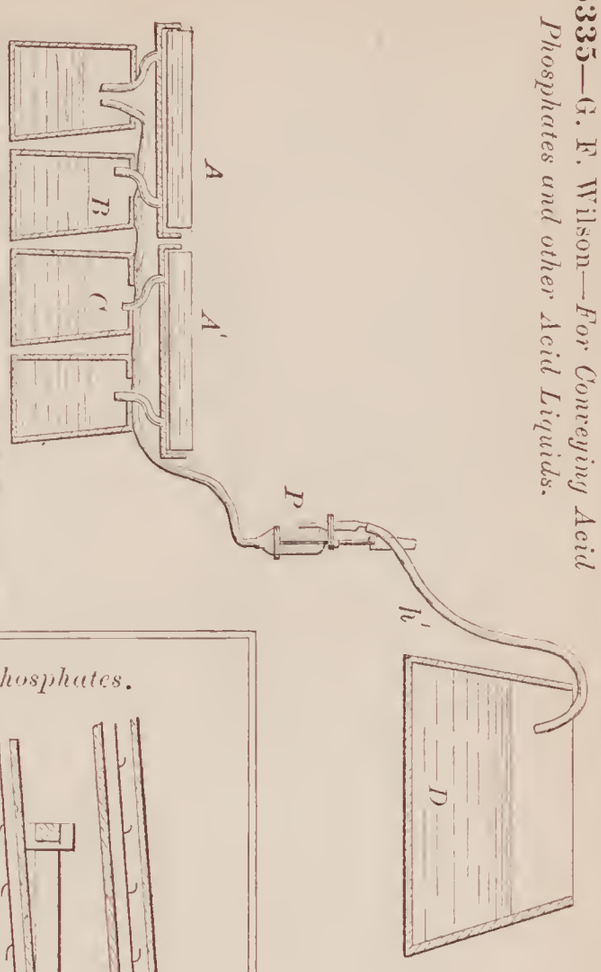
75332—G. F. Wilson—*For the Manufacture of Acid Phosphates.*



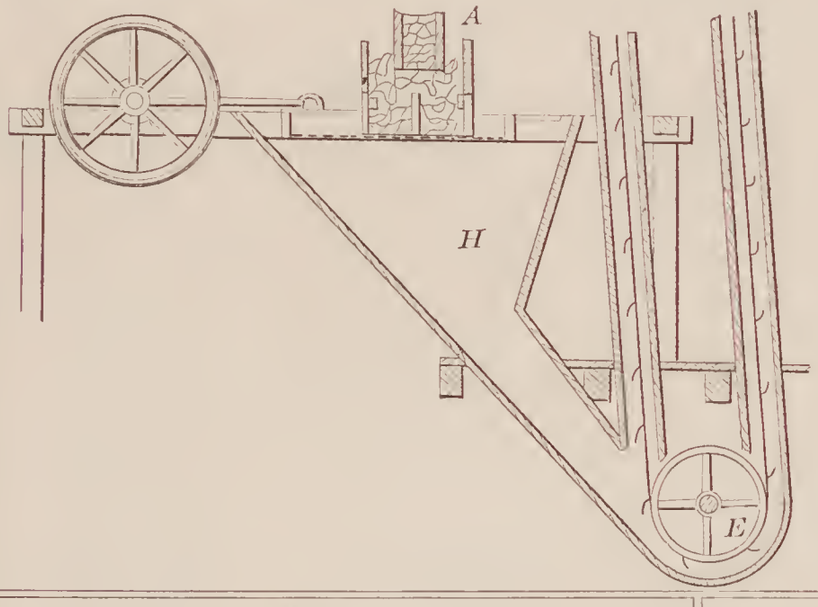
75333—G. F. Wilson—*Grinding and Pulverizing Acid Phosphates.*



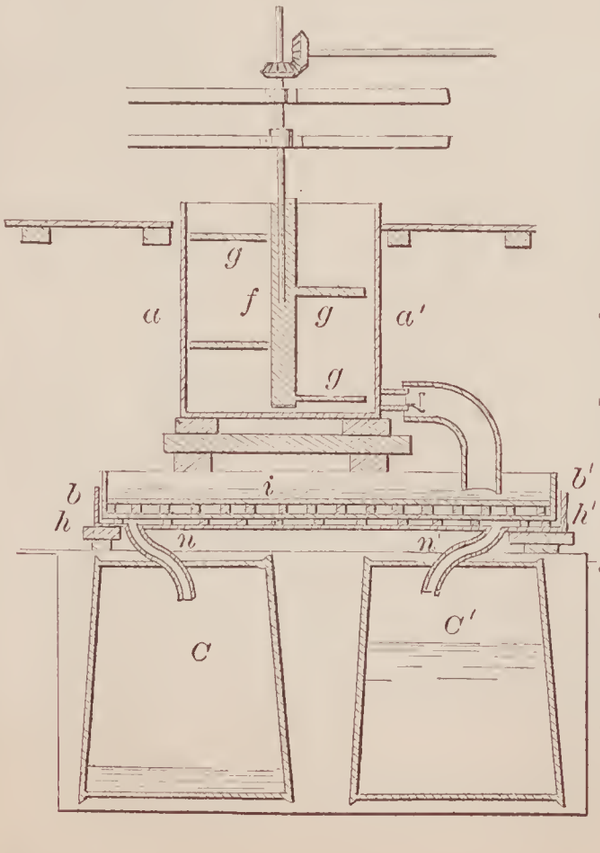
75335—G. F. Wilson—*For Conveying Acid Phosphates and other Acid Liquids.*



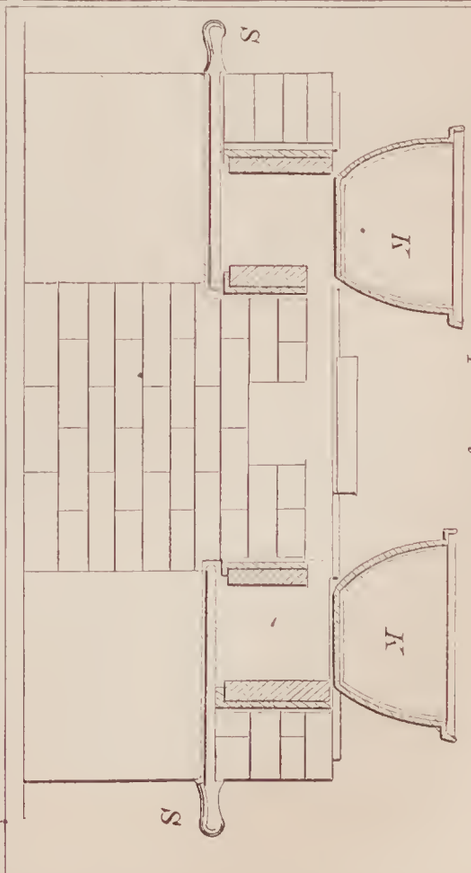
75334—G. F. Wilson—*Granulating Acid Phosphates.*



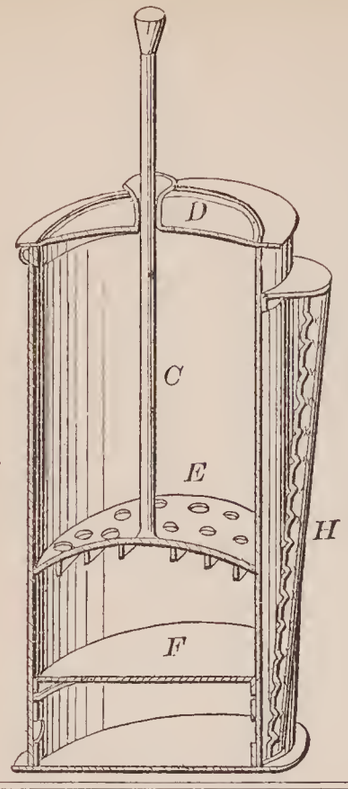
75336—Wilson & Horsford—*Manufacture of Phosphates and Extracting Phosphoric Acid from Bones.*



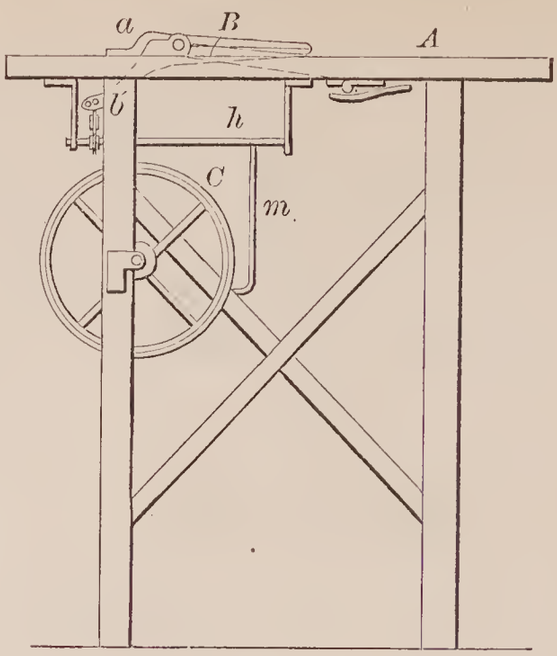
75339—Wilson & Horsford—*For Concentrating Acid Phosphate of Lime.*



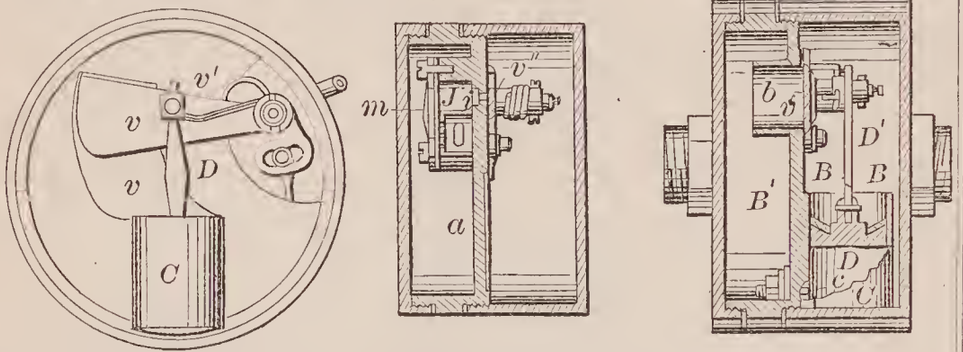
75340—S. C. Wilson—*Egg Beater.*



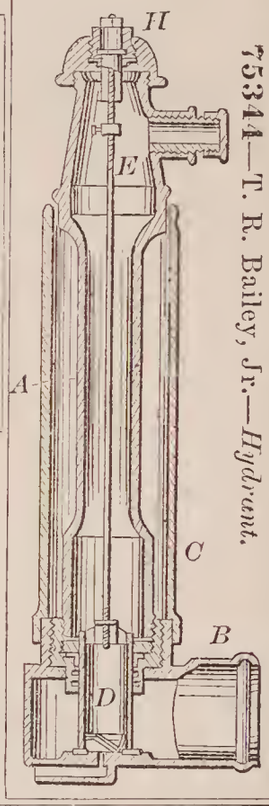
75341—A. Allen—*For Cutting Rags.*



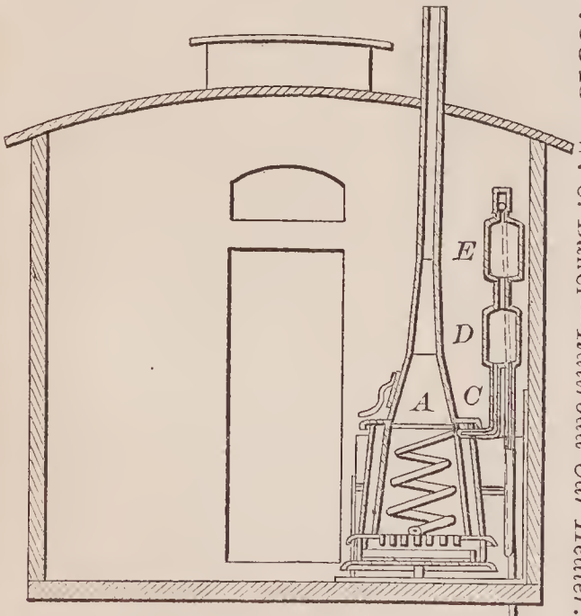
75342—L. Allen—*Fluid Meter.*



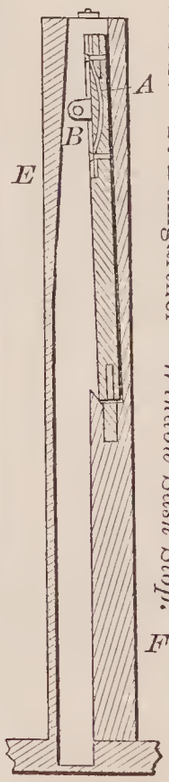
75344—T. R. Bailey, Jr.—*Hydrant.*



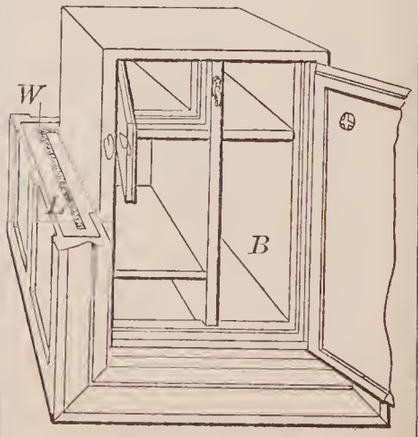
75345—W. C. Baker—*Railroad Car Heater.*



75347—F. Baumgartner—*Window Sash Stop.*

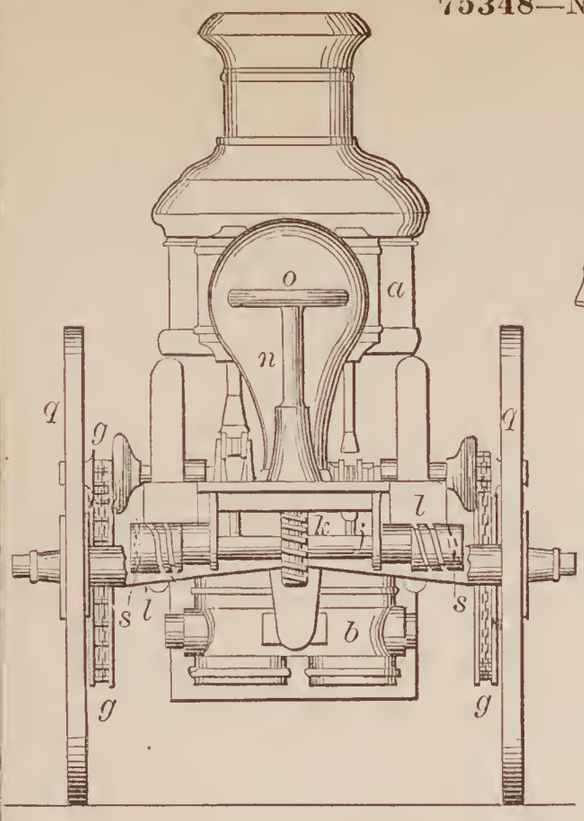


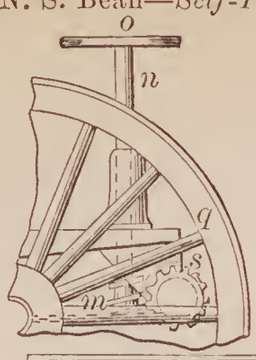
75346—R. A. Ballou—*Fireproof Safe.*



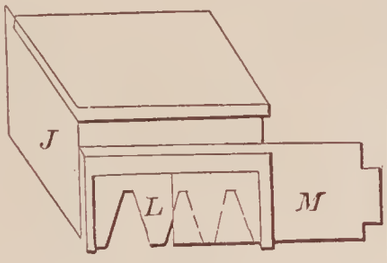
75343—E. A. & A. C. Apgar—
Map and Chart Holder.

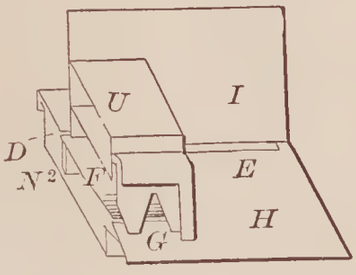
75348—N. S. Bean—*Self-Propelling Engine.*

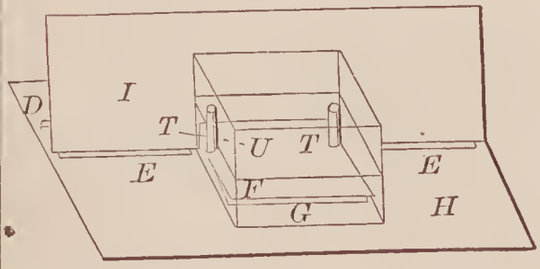


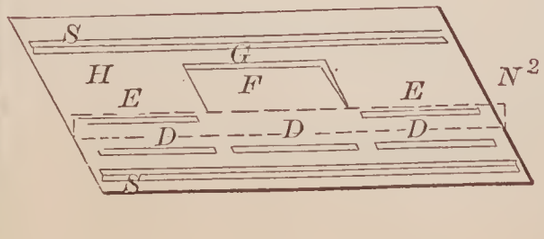


75349—E. Beard—*Beehive Portal.*

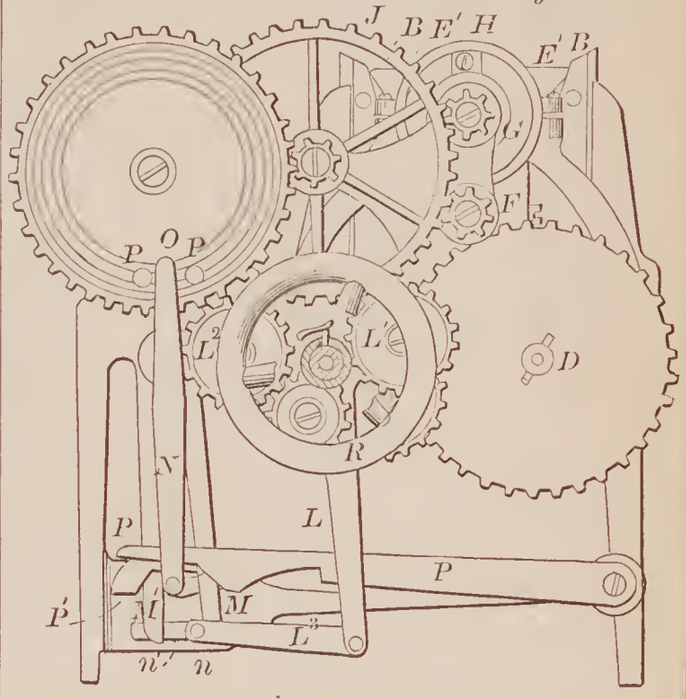


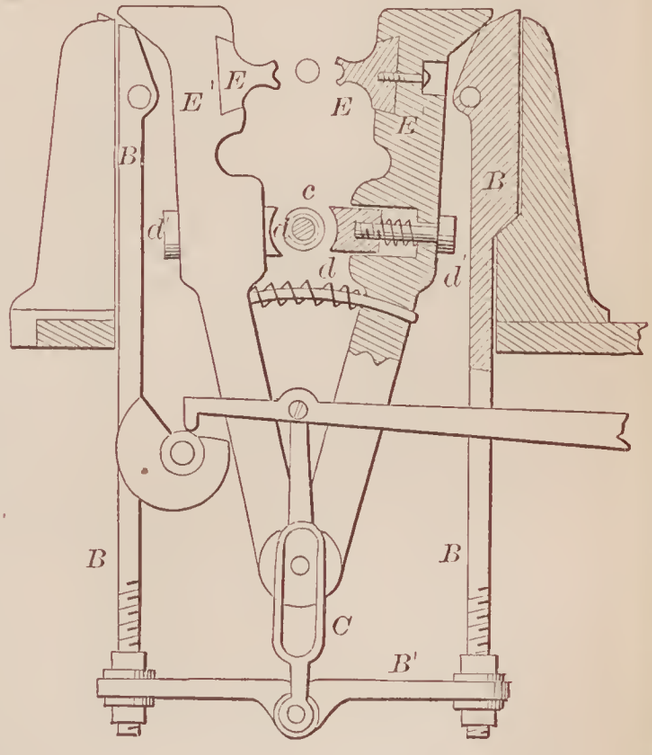


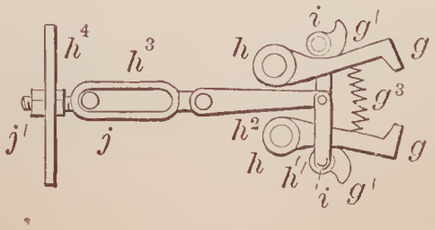




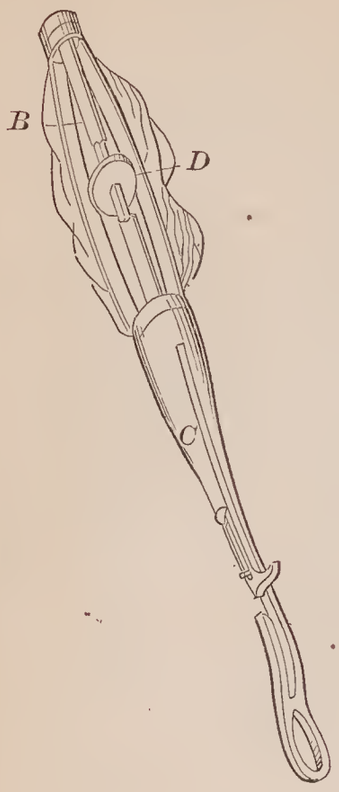
75350—J. A. Bidwell—*For Threading Screws.*



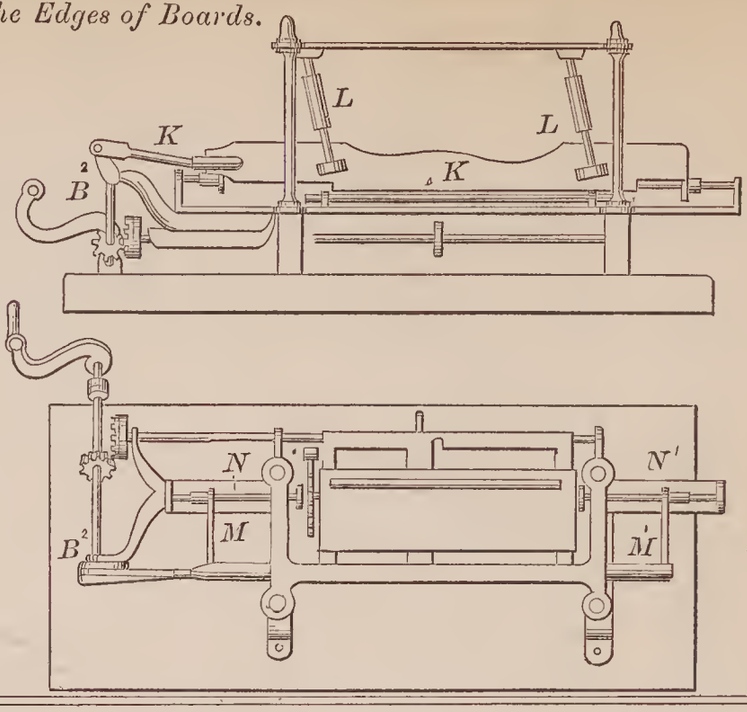




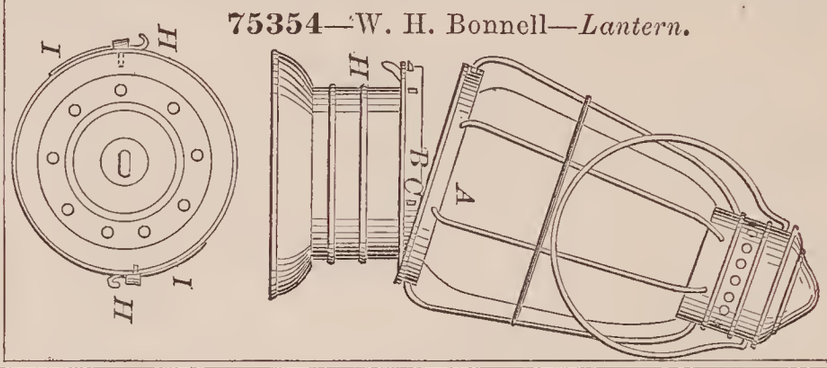
75351—J. S. Black—*Lamp Chimney Cleaner.*



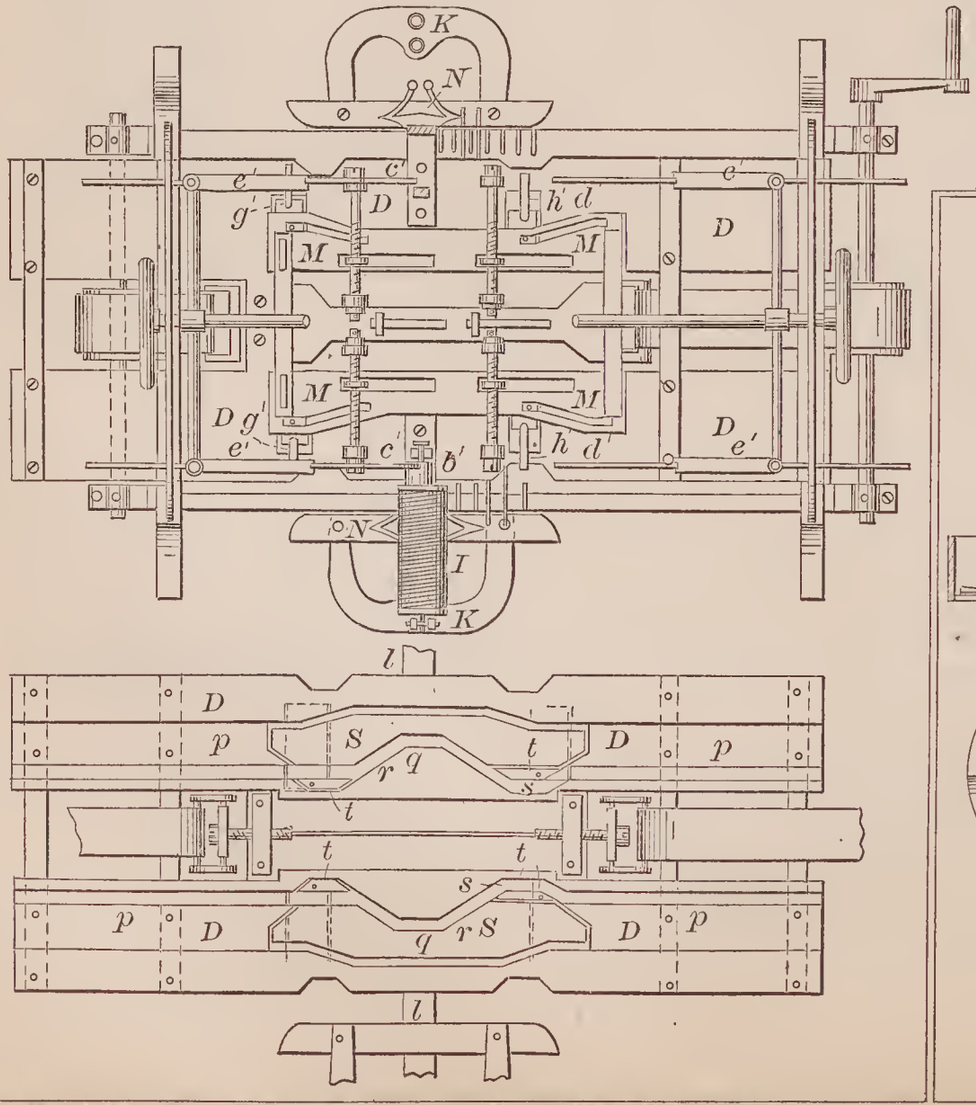
75352—Blinn, Alvord & Brewer—*For Cutting Hoops from the Edges of Boards.*



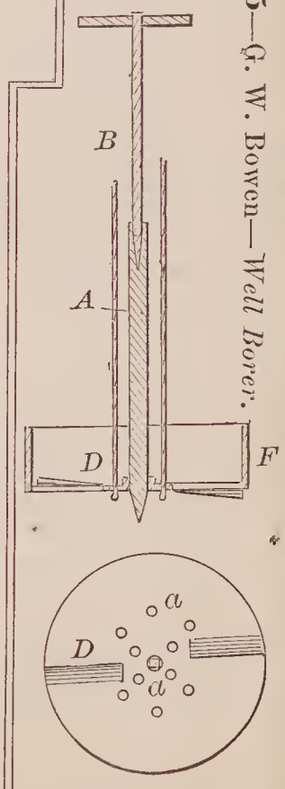
75354—W. H. Bonnell—*Lantern.*



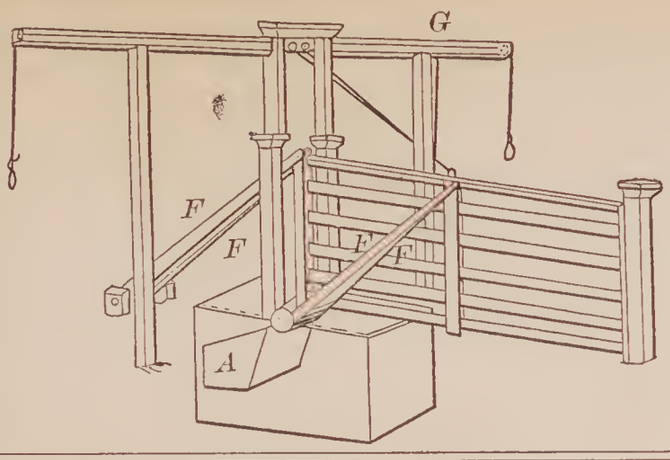
75353—H. Bogel—*Knitting Machine.*



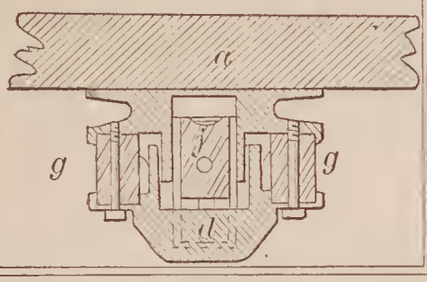
75355—G. W. Bowen—*Well Borer.*



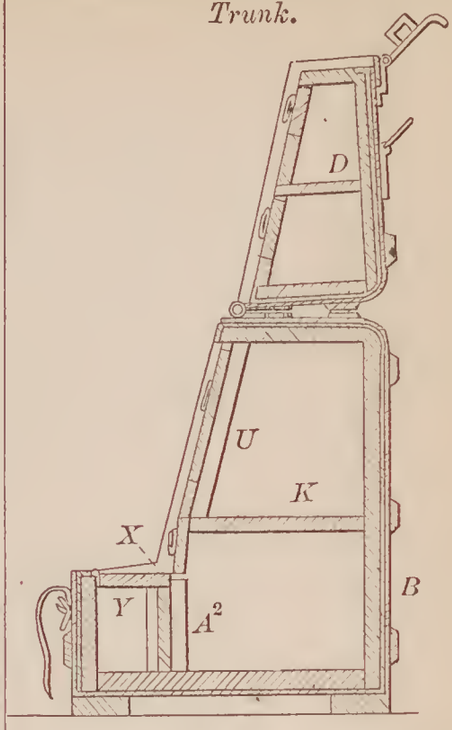
75356—J. Bowers—*Gate.*



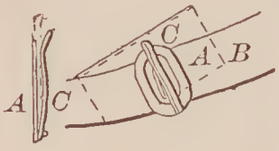
75357—A. Bridges—*Car Truck.*



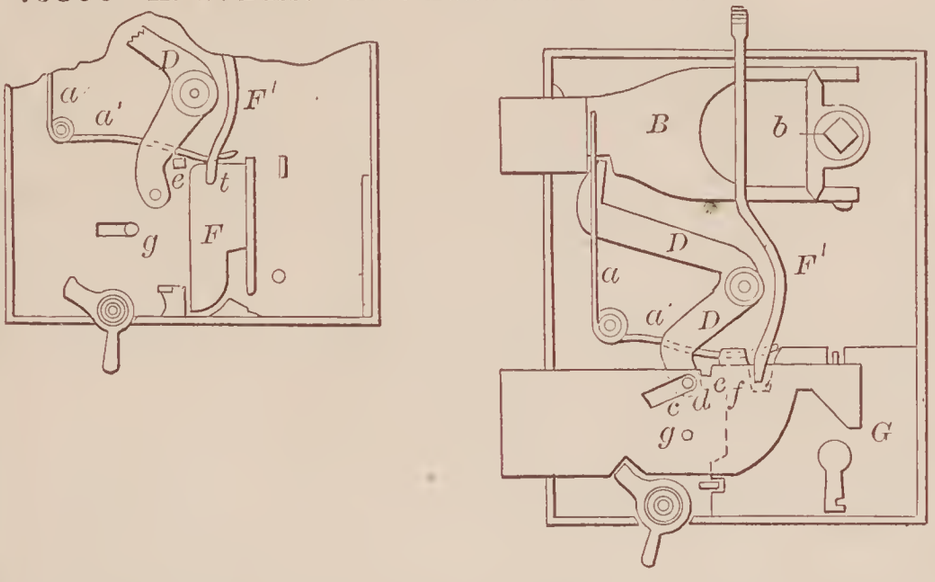
75358—J. H. Burnett, Jr.—*Trunk.*



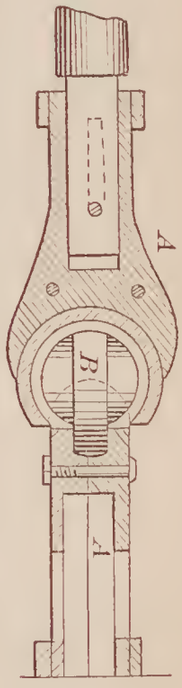
75359—J. N. Burton—*Hat Buckle.*



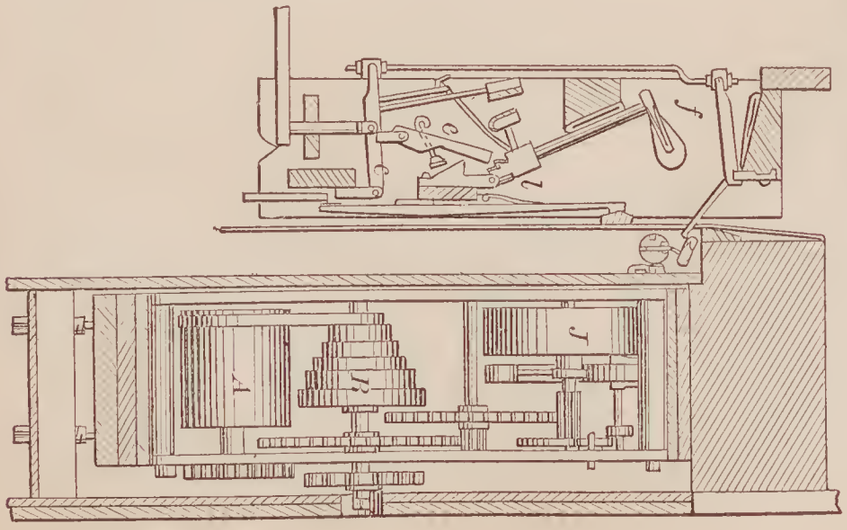
75360—H. W. Busse—*Knob Latch and Door Lock.*



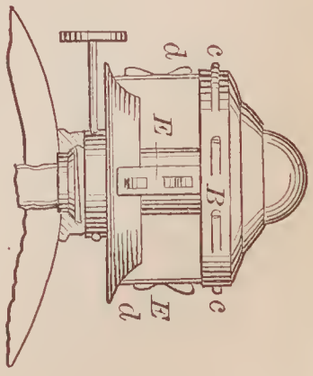
75361—Butts & Stone—*Universal Joint.*



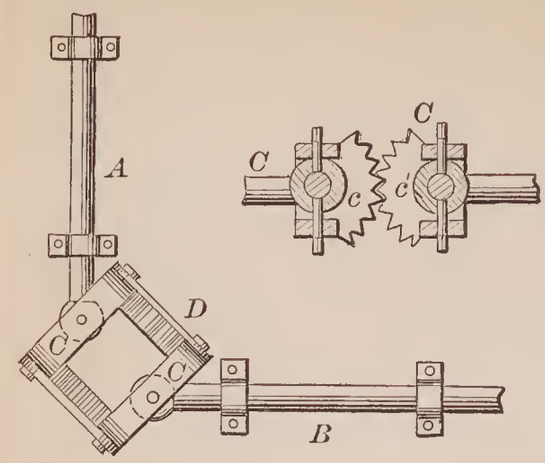
75362—Caldera & Montu—*Piano Forte.*



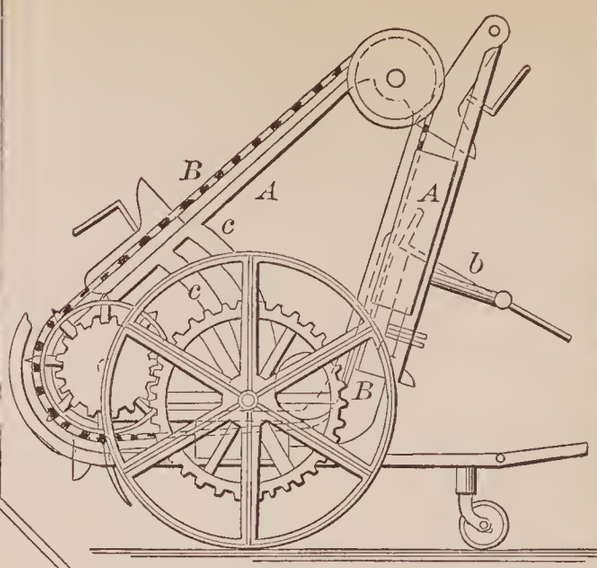
75363—G. J. Capewell—*Lamp Burner.*



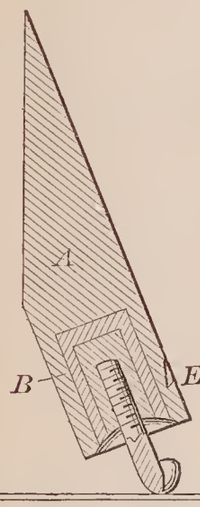
75364—J. M. Case—*Angular Shaft Coupling.*



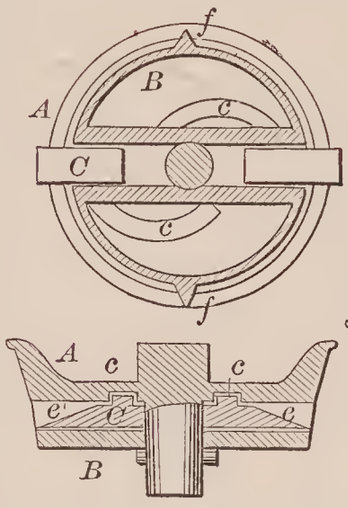
75366—S. B. Castle—*Elevator.*



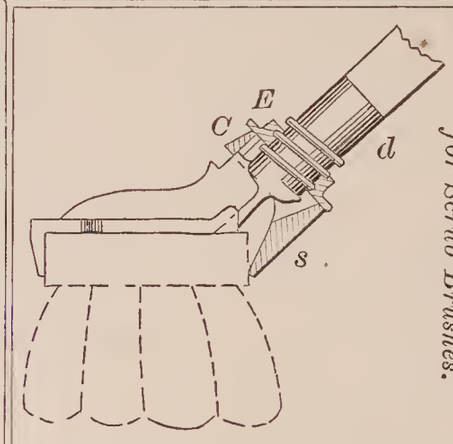
75365—A. A. Castle—*Insulator.*



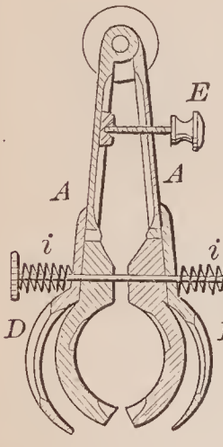
75367—Chappell & Pettit—*Bung.*



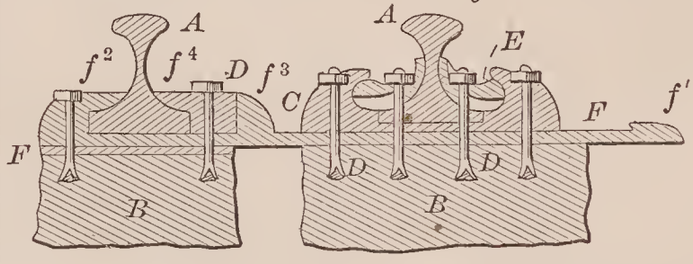
75369—C. B. Clark—*Clamp for Scrub Brushes.*



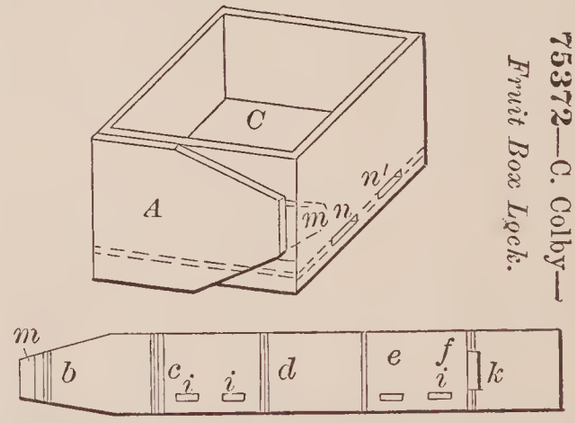
75368—C. Christian—*Hand Corn Sheller.*



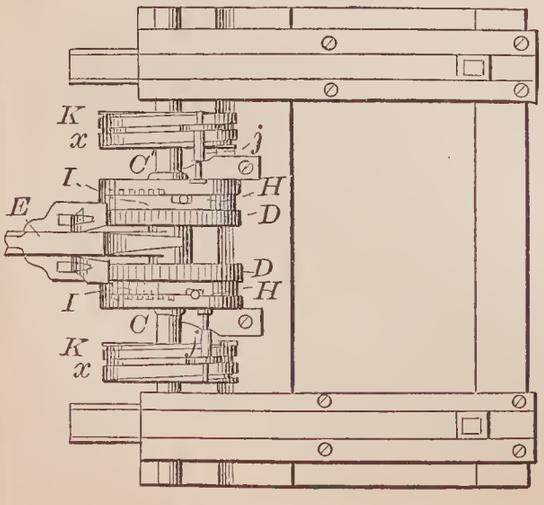
75370—D. N. Clark—*Railway Chair and Fastening.*



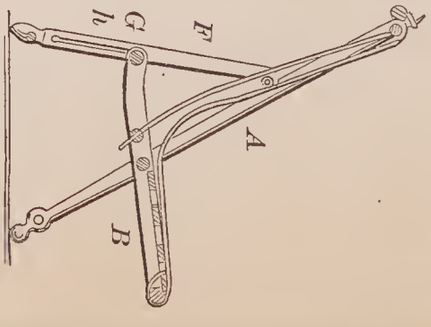
75372—C. Colby—*Fruit Box Lock.*



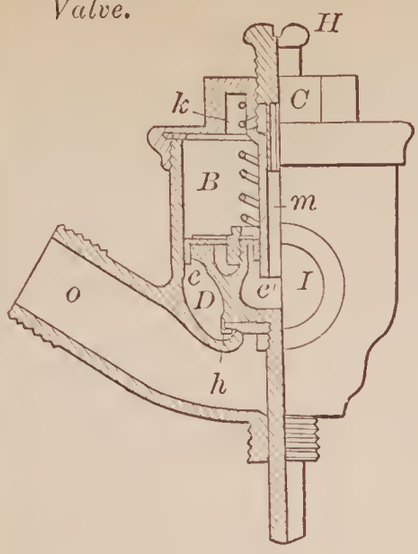
75371—T. L. Clark—*Head Block.*



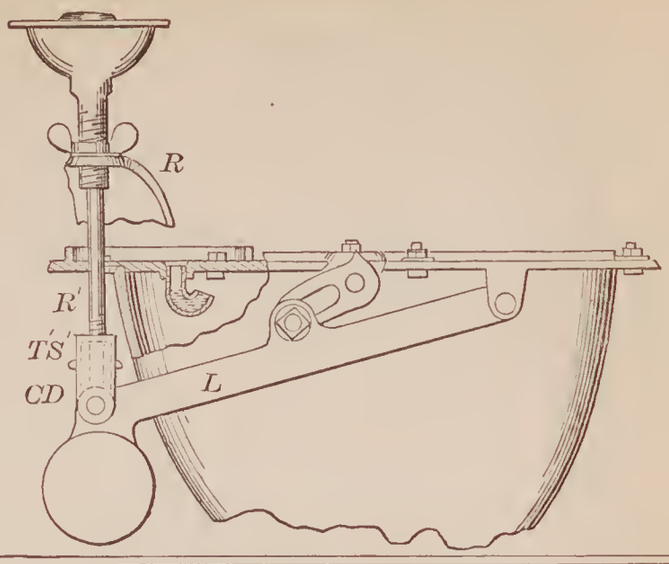
75373—C. O. Collignon—*Cottage Chair.*



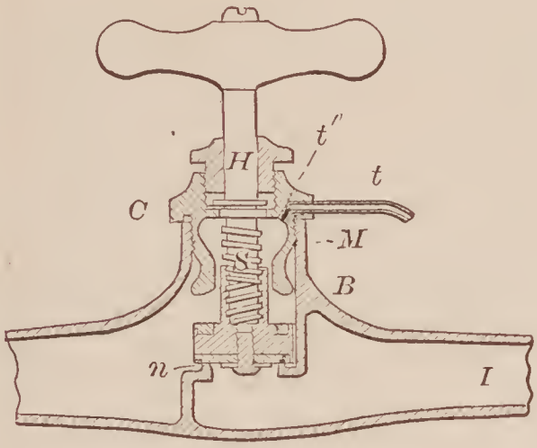
75374—W. S. Cooper—*Water Closet Valve.*



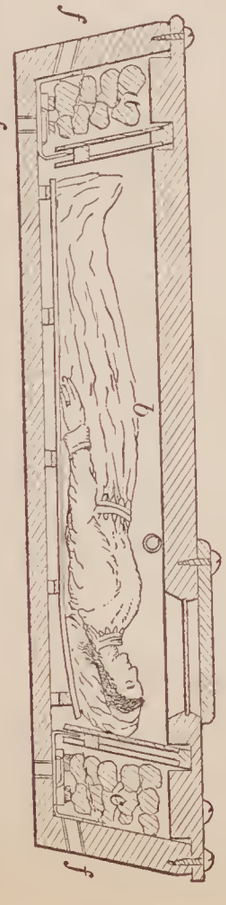
75375—W. S. Cooper—*Water Closet.*



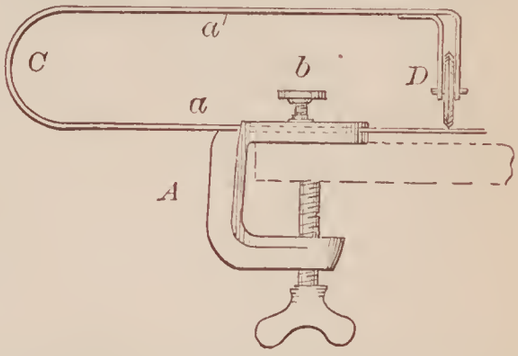
75376—W. S. Cooper—*Valve Cock.*



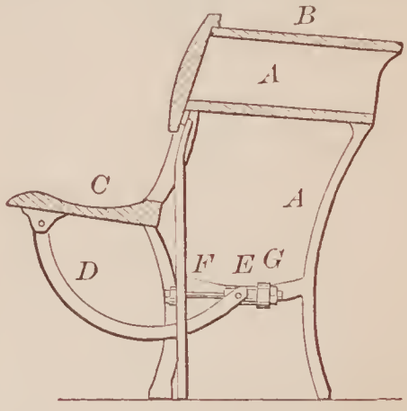
75377—J. S. Cox—*Refrigerator Coffin.*



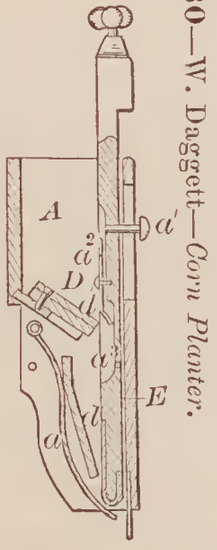
75378—W. J. Crane—*Cloth Creaser.*



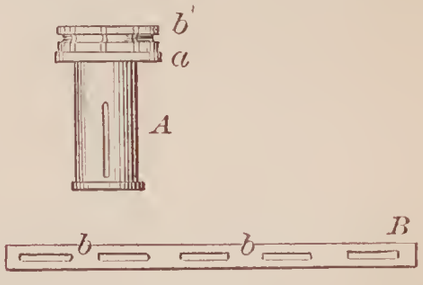
75379—R. Cruikshank—*Desk and Seat*



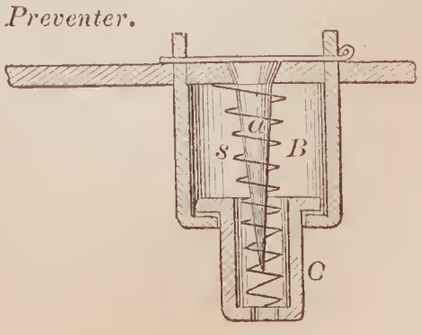
75380—W. Daggett—*Corn Planter.*



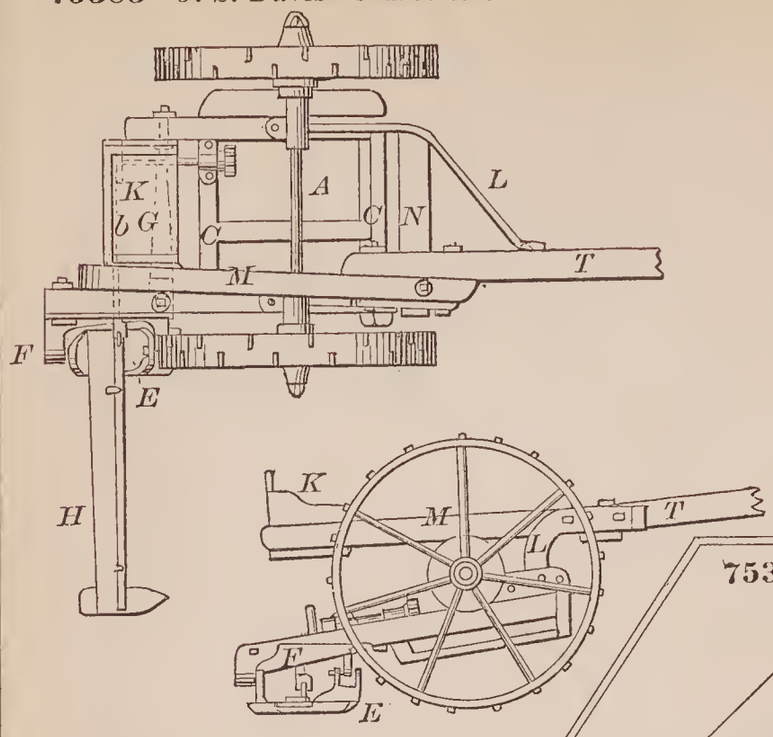
75381—A. G. Davis—*Umbrella Runner.*



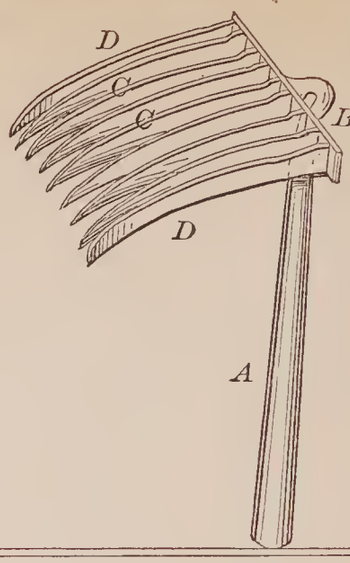
75382—Davis & Cramer—*Cribbing Preventer.*



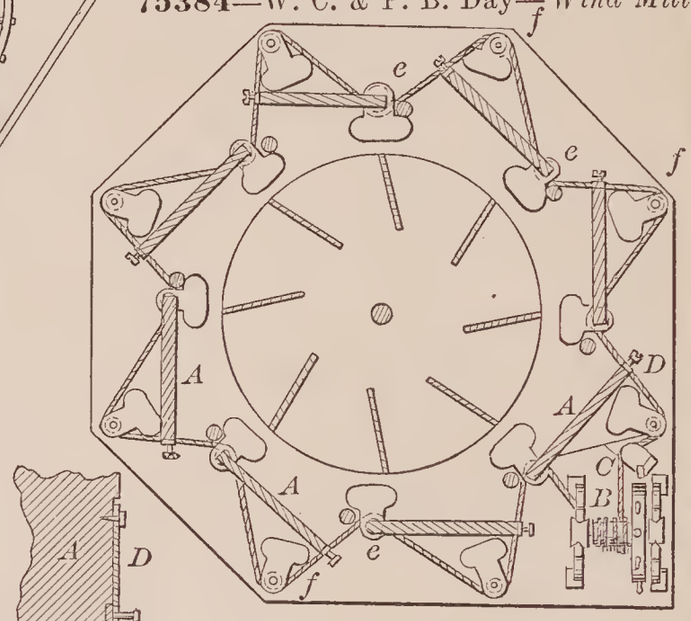
75383—J. S. Davis—*Harvester.*

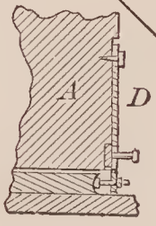


75385—J. Dean—*Hop Picking Tool.*

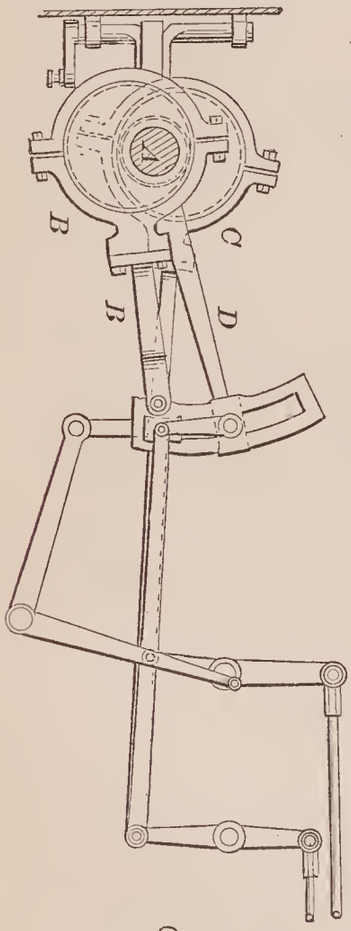


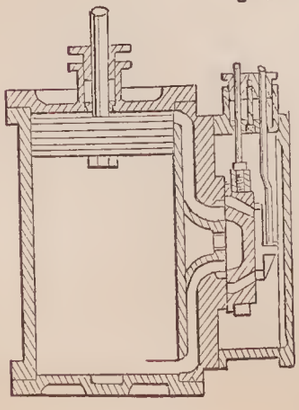
75384—W. C. & P. B. Day—*Wind Mill.*



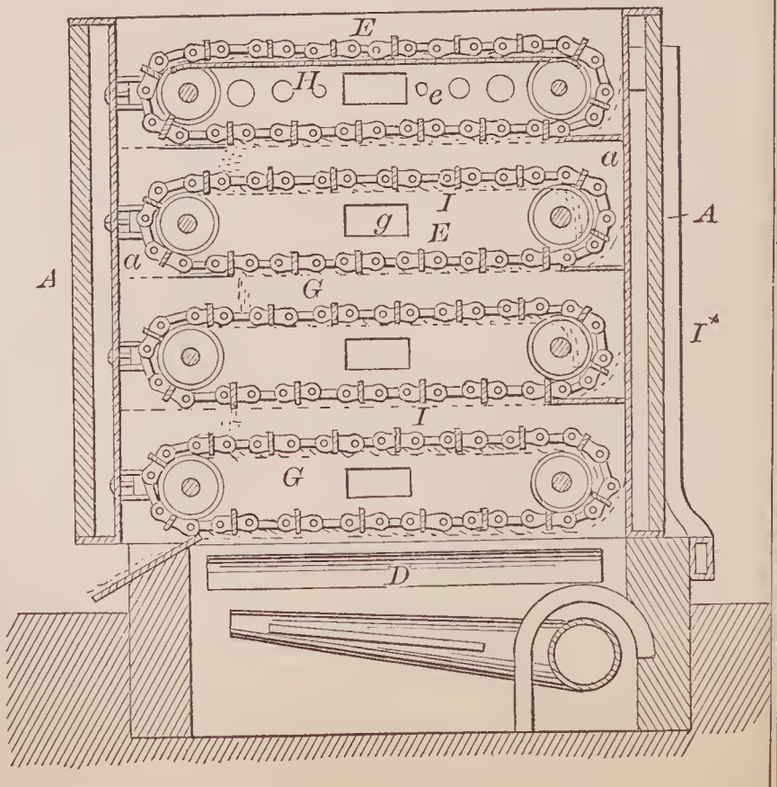


75387—E. N. Dickerson—*Steam Engine Valve Gear.*

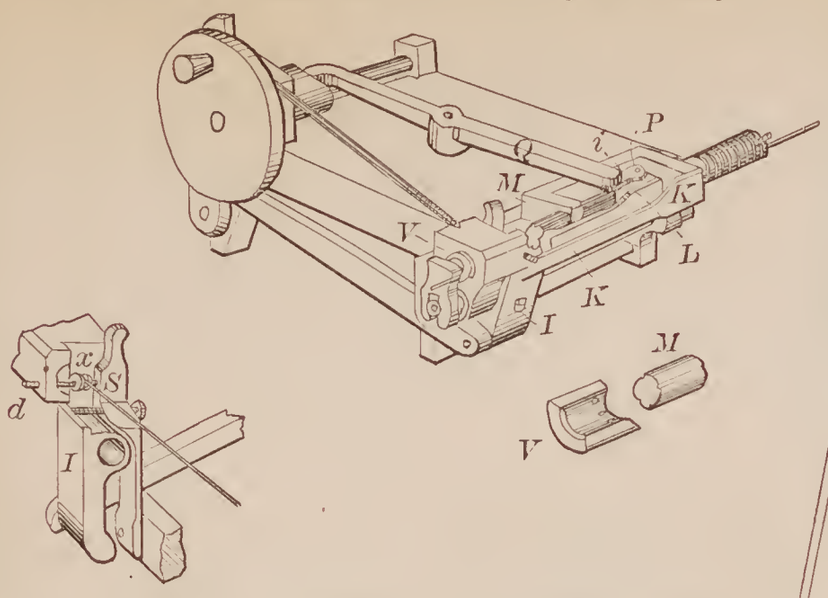




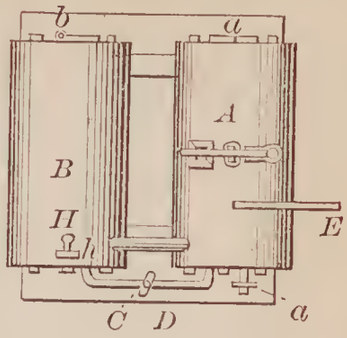
75386—J. D. Bary—*Grain Dryer.*



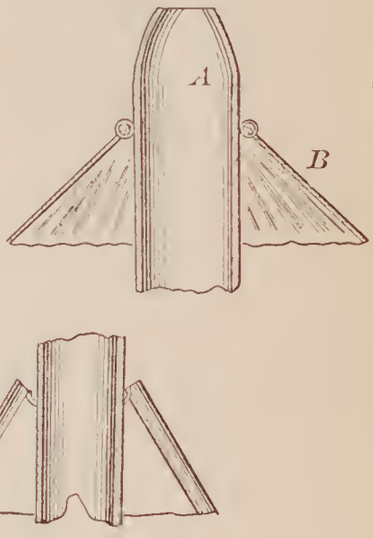
75388—T. A. Dickinson—*Card Setting Machinery.*



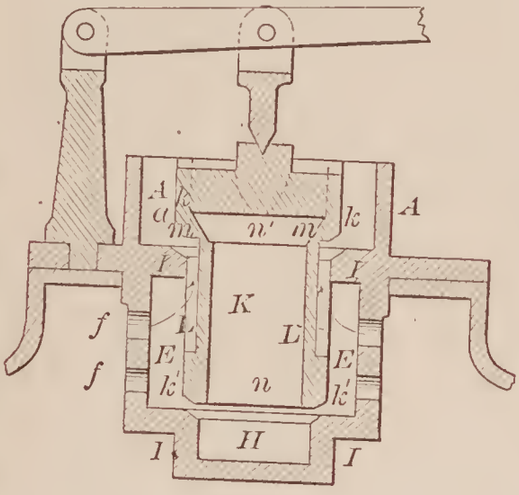
75391—C. Doty—*For Tanning in Vacuo.*



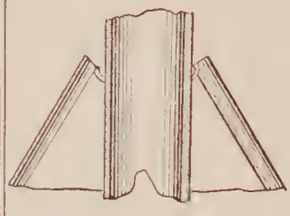
75390—T. B. Doolittle—*Lamp Shade.*



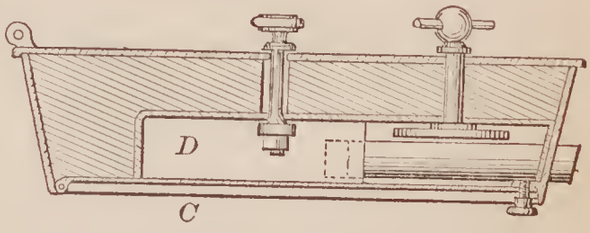
75392—S. B. Dougherty—*Safety Valve.*



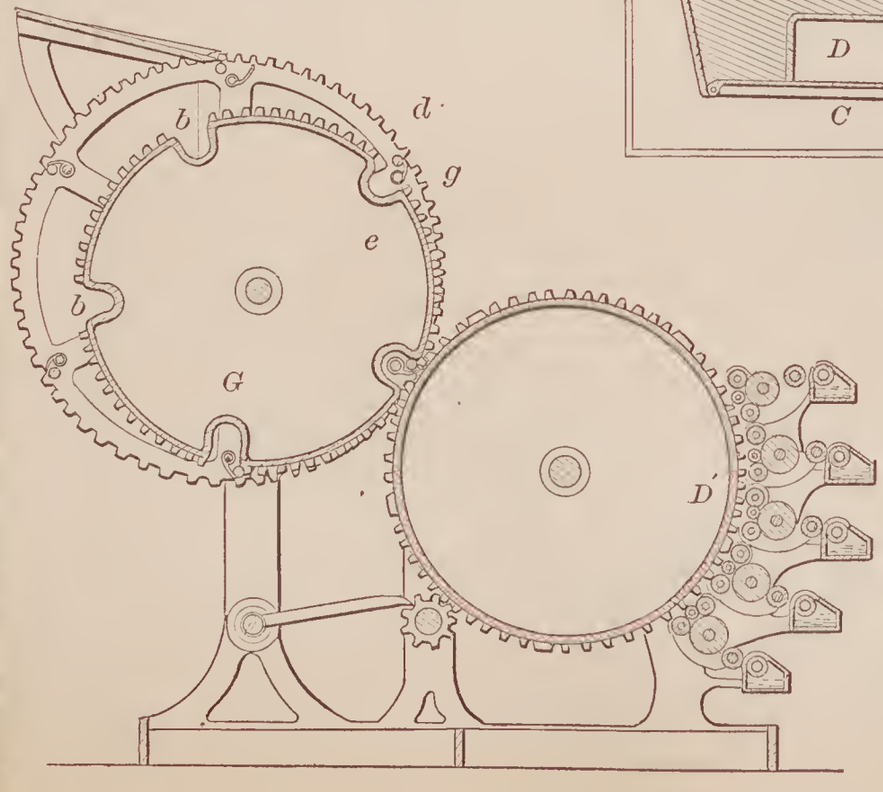
75393—Draper, Sweetland & Draper—*Imitating Cluster Jewelry.*



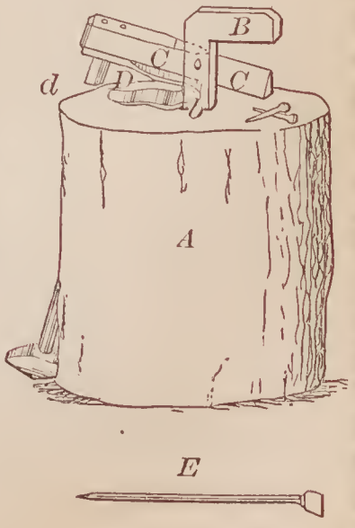
75389—W. B. Dodds—*Fireproof Safe Door.*



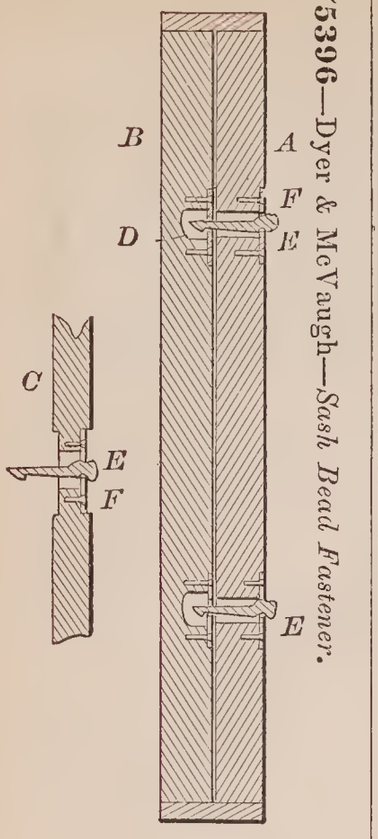
75394—A. A. Dunk—*Printing Press.*



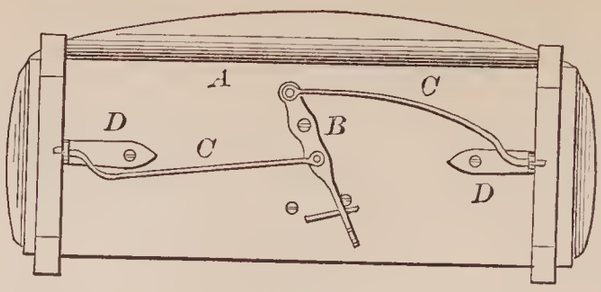
75395—V. A. Dunn—*Anvil Cutter.*



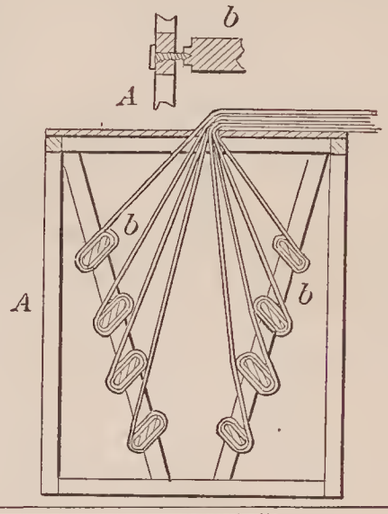
75396—Dyer & McVaugh—*Sash Bead Fastener.*



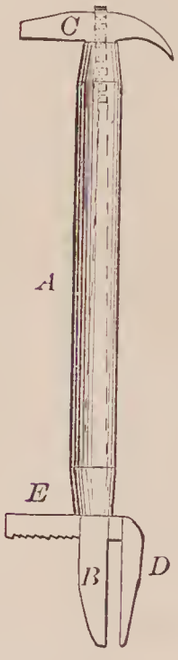
75397—W. A. Eddy—*Vehicle Seat.*



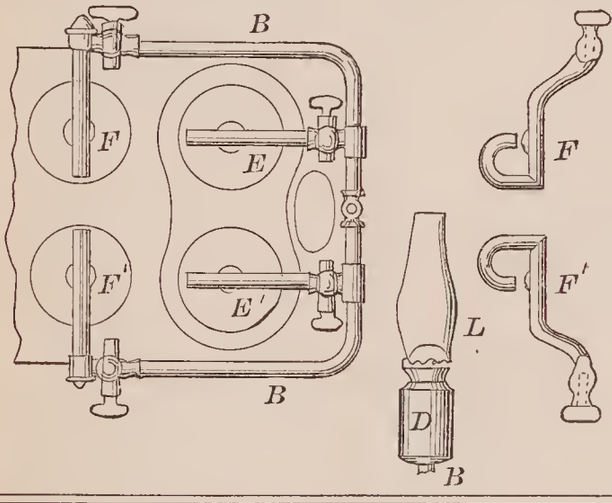
75398—H. Eldridge—*Boots and Shoes.*



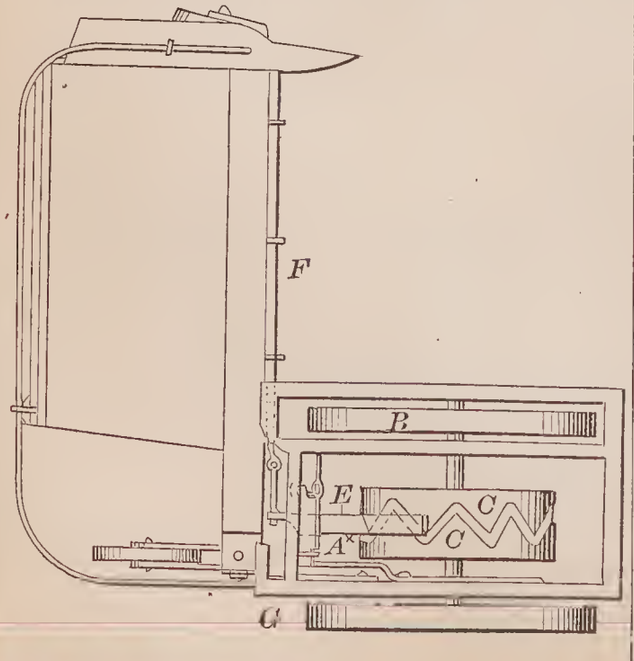
75399—J. J. Ellis—*Wrench.*



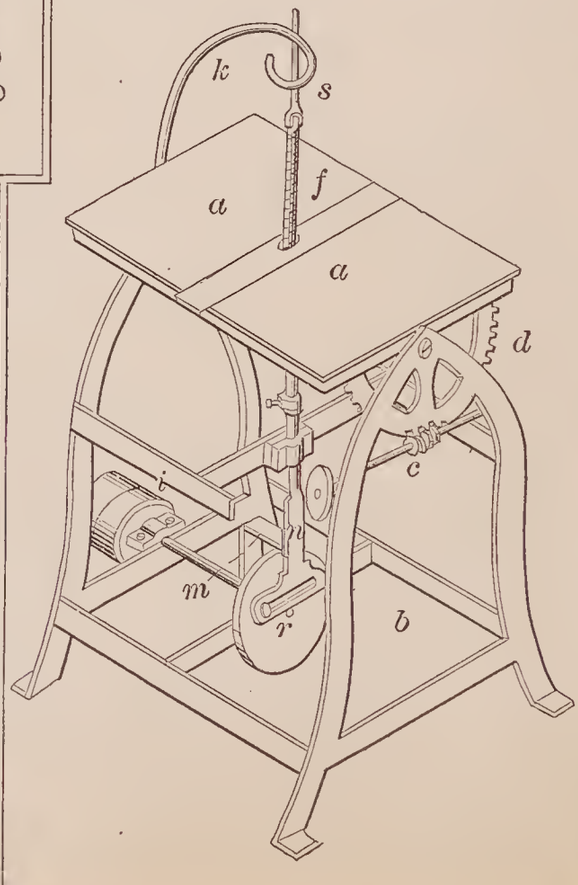
75400—D. L. Emerson—*Petroleum or Gas Stove.*



75401—E. W. Fairman—*Harvester.*



75402—M. Fiedler—*Filing Machine.*



75403—C. Ford—*Corn Husker.*

Fig. 1

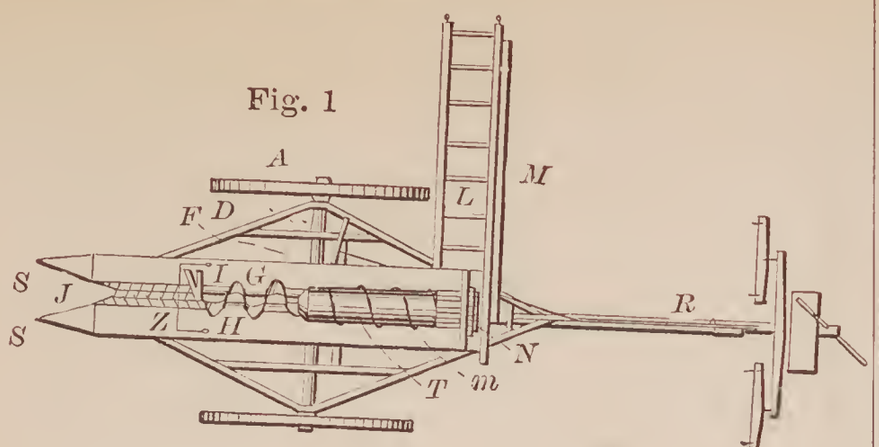


Fig. 2

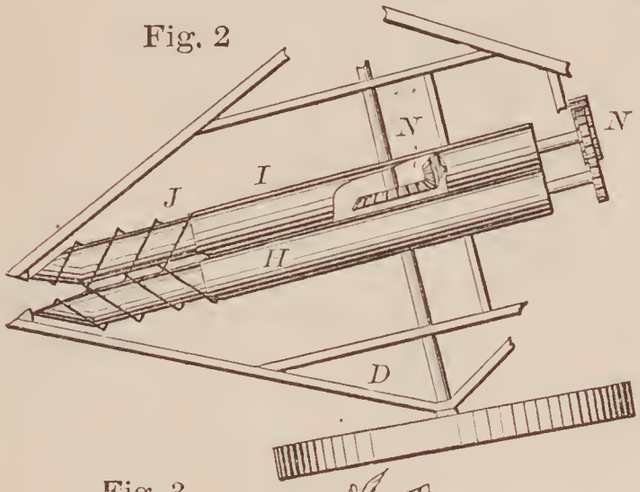
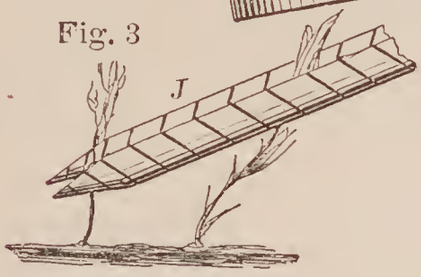
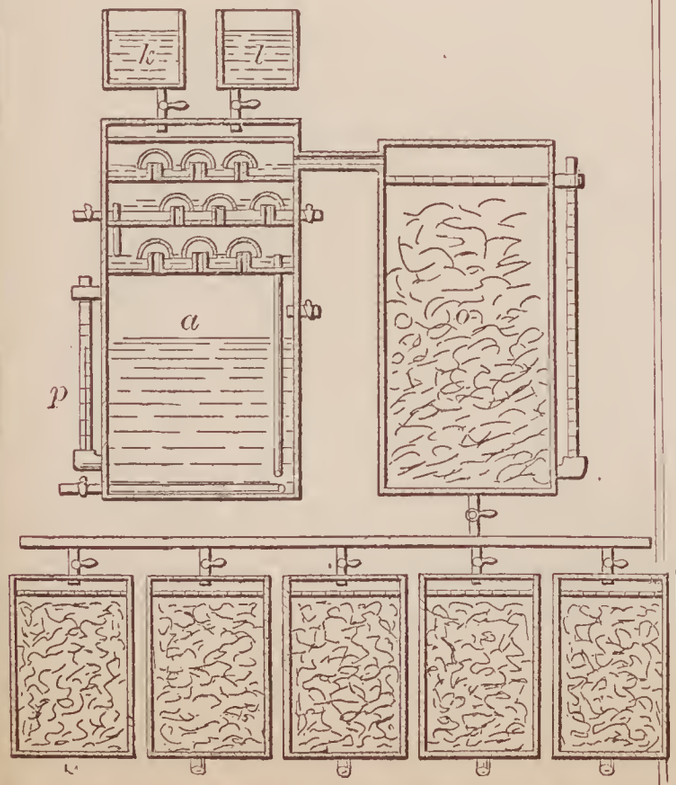


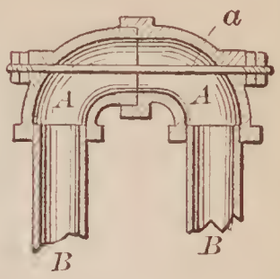
Fig. 3



75404—A. Foubert—*Manufacture of Vinegar.*

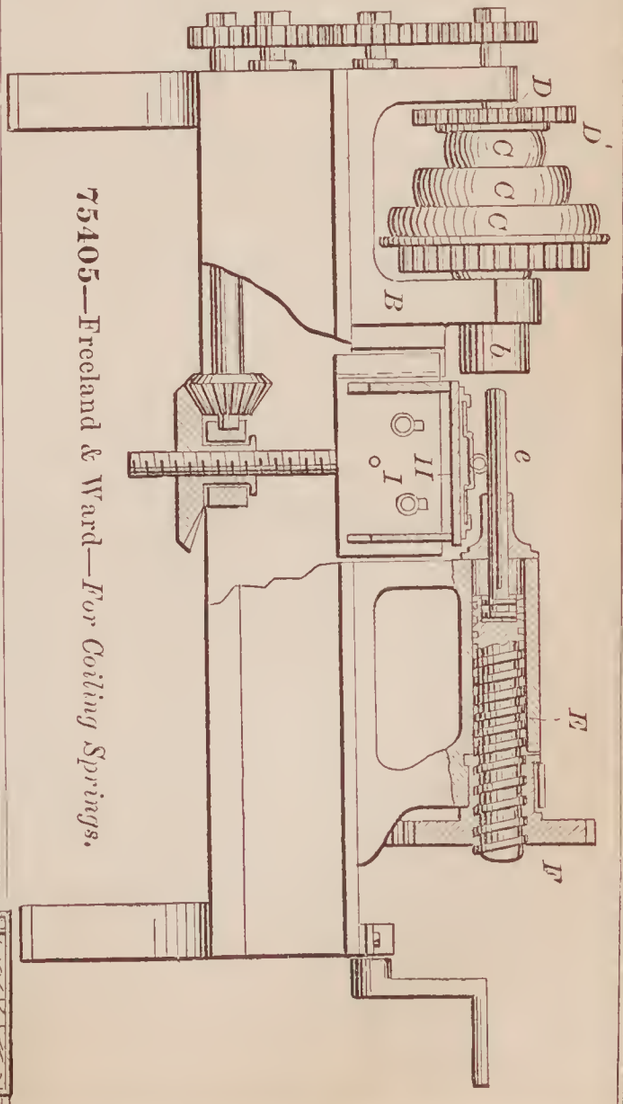


75407—Garvin & Pettibone—*Pipe Joint.*

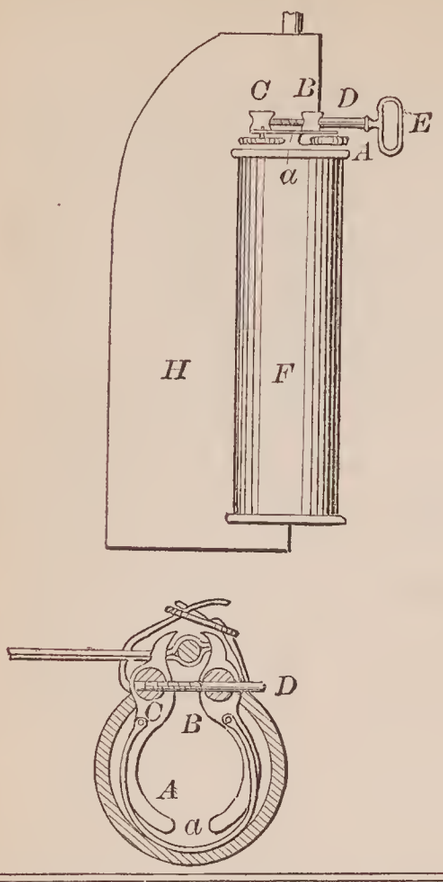


75408—G. & W. Gibbs—*Singletree.*

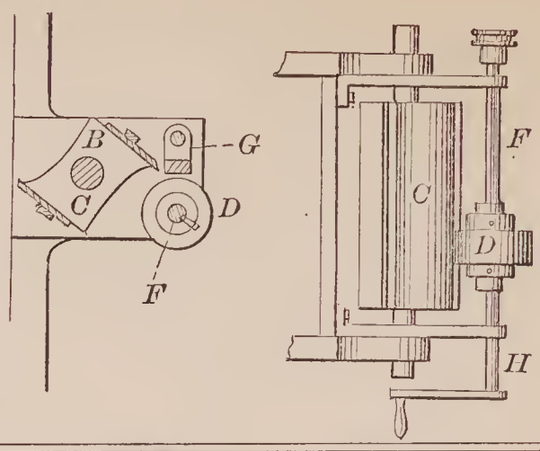
75405—Freeland & Ward—*For Coiling Springs.*



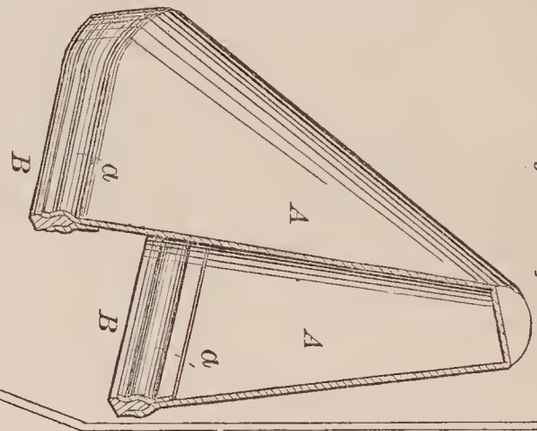
75409—F. M. Gifford—*Whip Lock.*



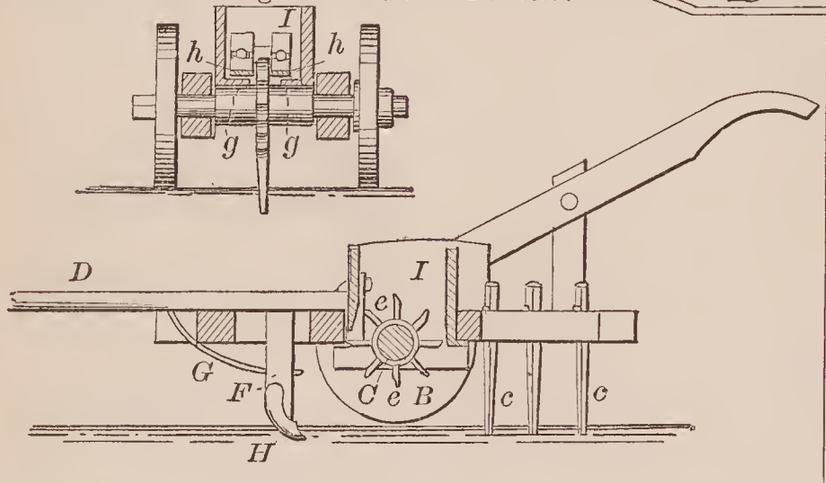
75411—J. Grant—*Grinder for Knives for Planters.*



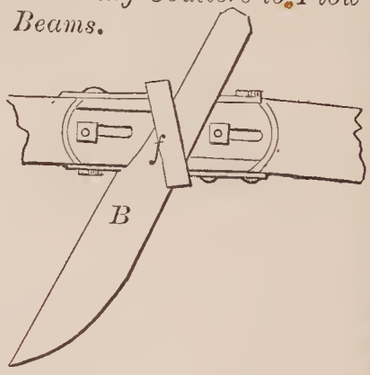
75412—J. G. Hadfield—*Surgical Cup.*



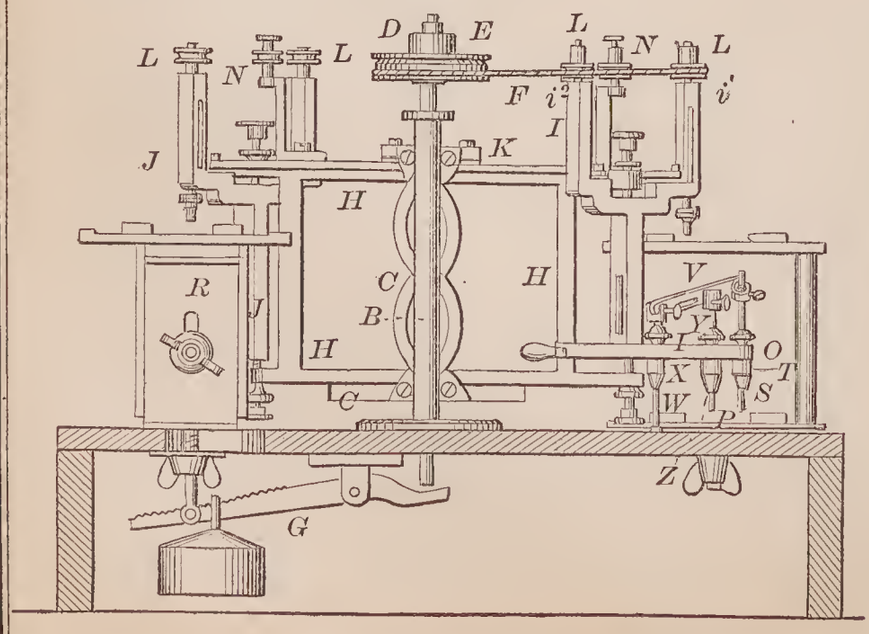
75410—A. J. Going—*Cotton Seed Planter.*



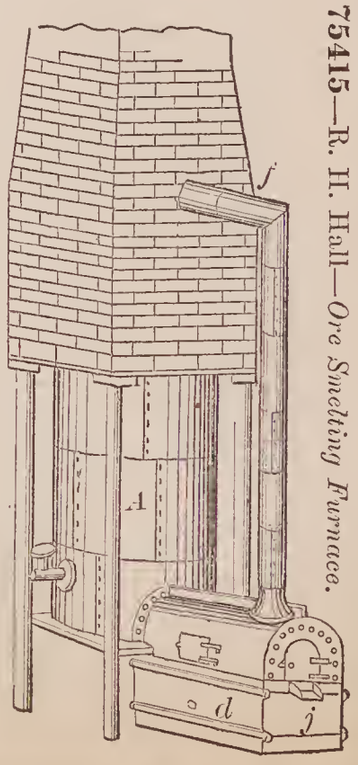
75414—J. H. Hall—*Attaching Coulters to Plow Beams.*



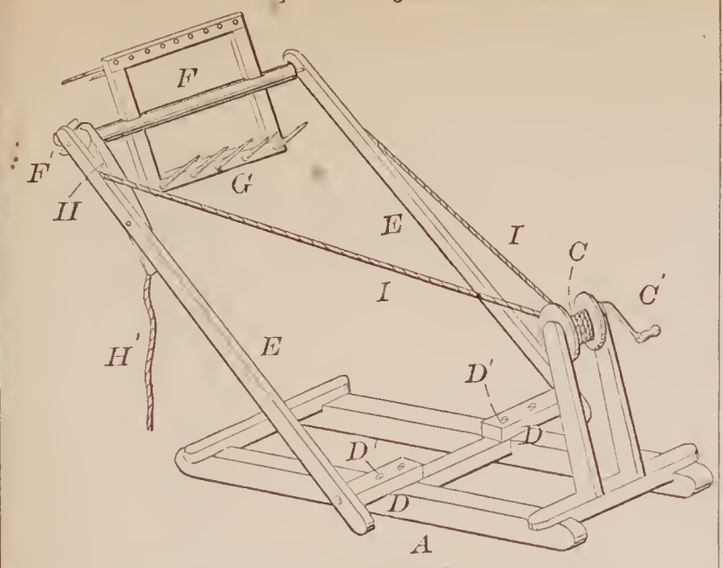
75413—I. Hall—*For Carving Wood.*



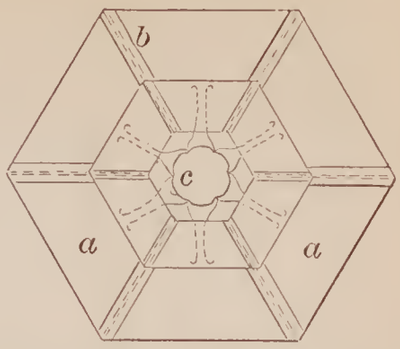
75415—R. H. Hall—*Ore Smelting Furnace.*



75416—J. Harper—*Hay Raker and Loader.*

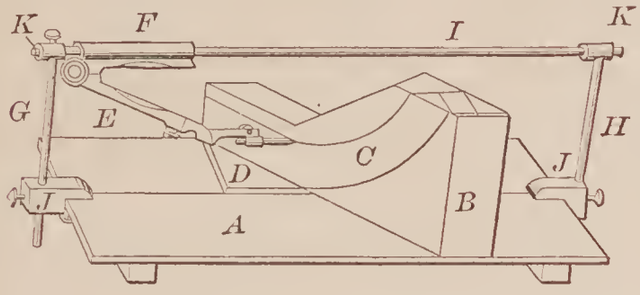


75418—H. M. Hartshorn—*Lamp Shade.*

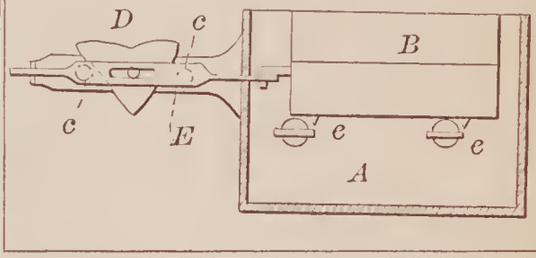


75422—D. K. Hickok—*Clothes Pin.*

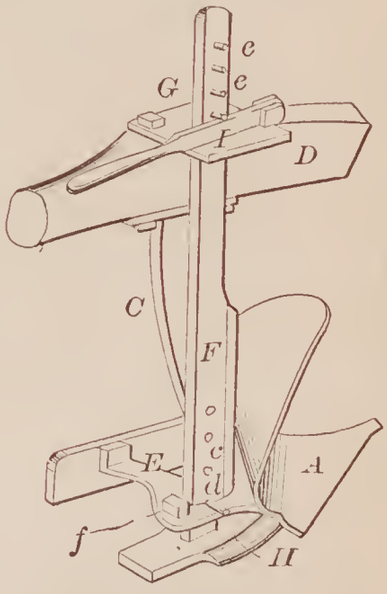
75423—G. Hoover—*Trammel for Stair Rails.*



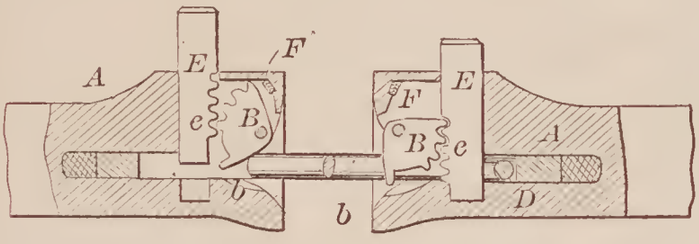
75417—S. Harris—*Grain Separator.*



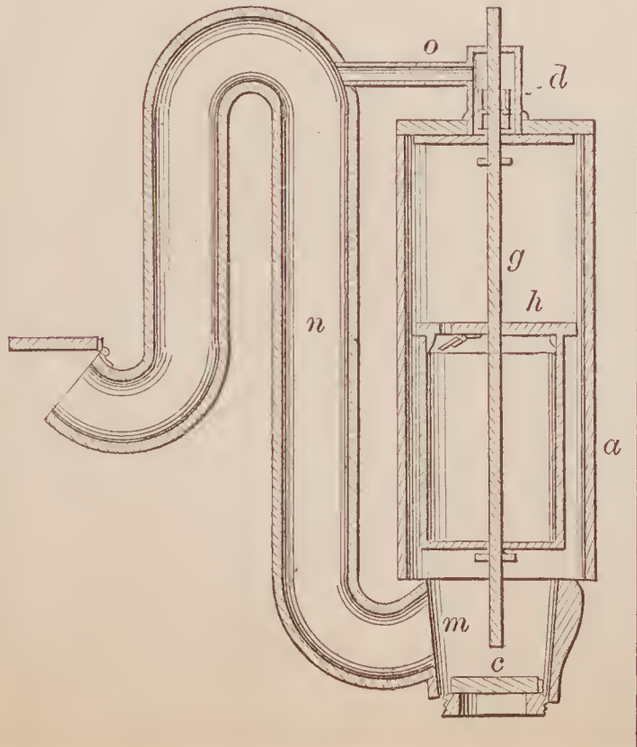
75419—C. Hayden—*Plow Subsoil Attachment.*



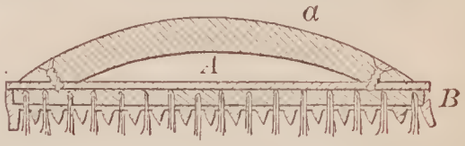
75420—G. W. Haynie—*Car Coupling.*



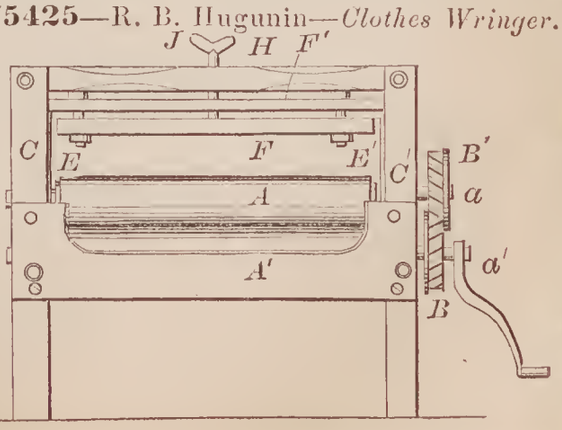
75424—W. L. Horne—*Steam Water Elevator.*



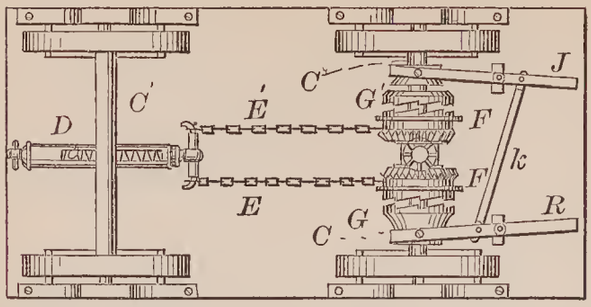
75421—D. E. Hayward—*Scrub Brush.*



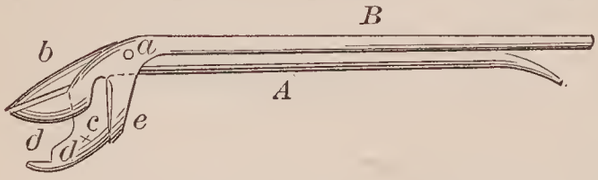
75425—R. B. Hugunin—*Clothes Wringer.*



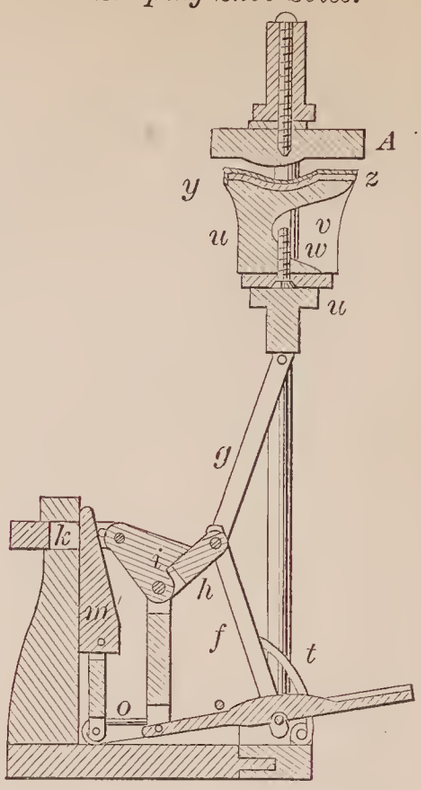
75426—C. S. Hunt—*Stopping and Starting Cars.*



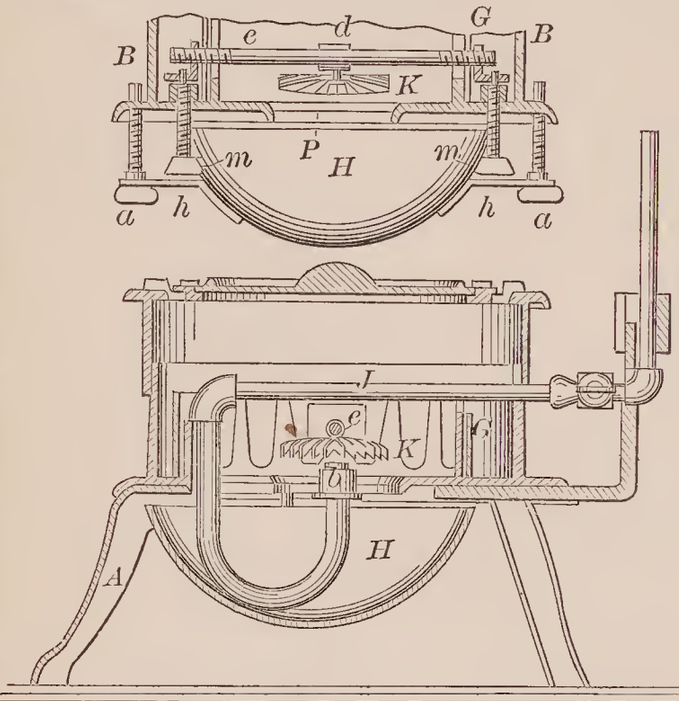
75427—Hyslop & Phillips—*Lifter and Tongs.*



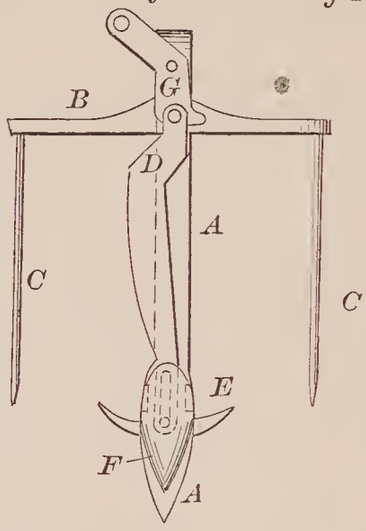
75428—J. B. Johnson—*For Shaping Shoe Soles.*



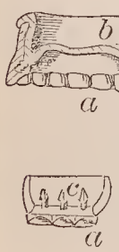
75429—D. Kellogg—*Gas Heater.*



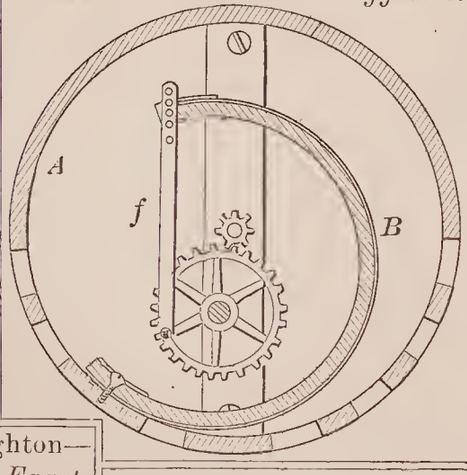
75430—G. Kinney—*Horse Hay Fork.*



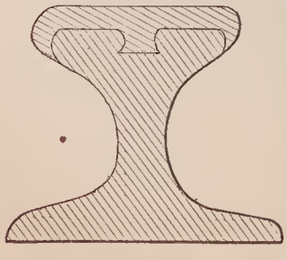
75431—A. A. Knowlton—*Artificial Teeth.*



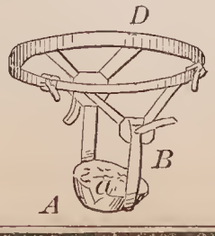
75432—A. E. Lazell—*Hygrometer.*



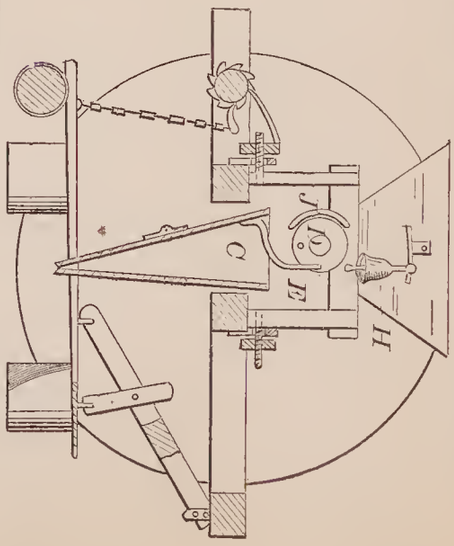
75433—W. Leighton—*Railroad Rail Fagot.*



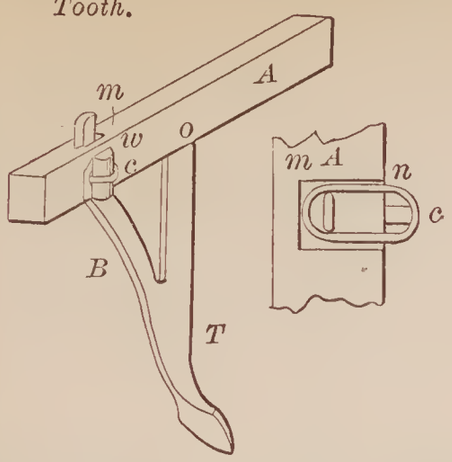
75434—H. W. Libbey—*Catamenial Sack.*



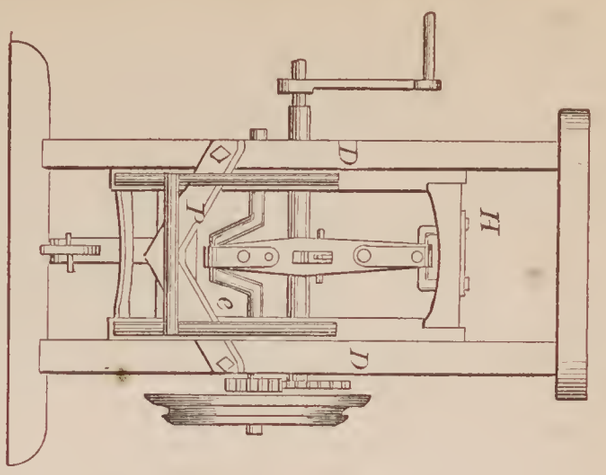
75435—N. & M. Liddell—*Corn Planter.*



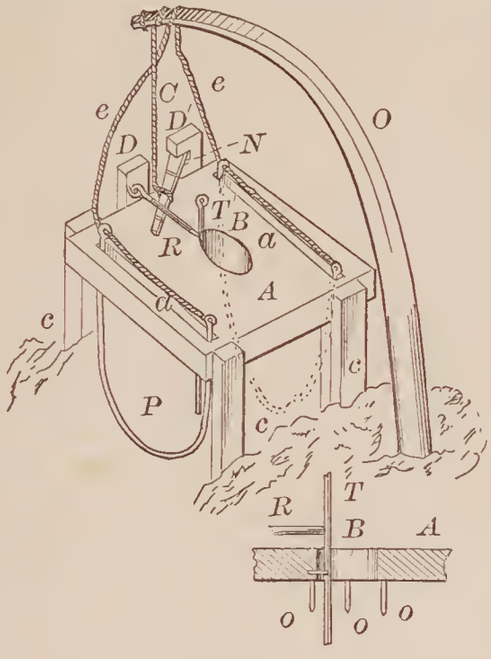
75436—Lowth & Howe—*Cultivator Tooth.*

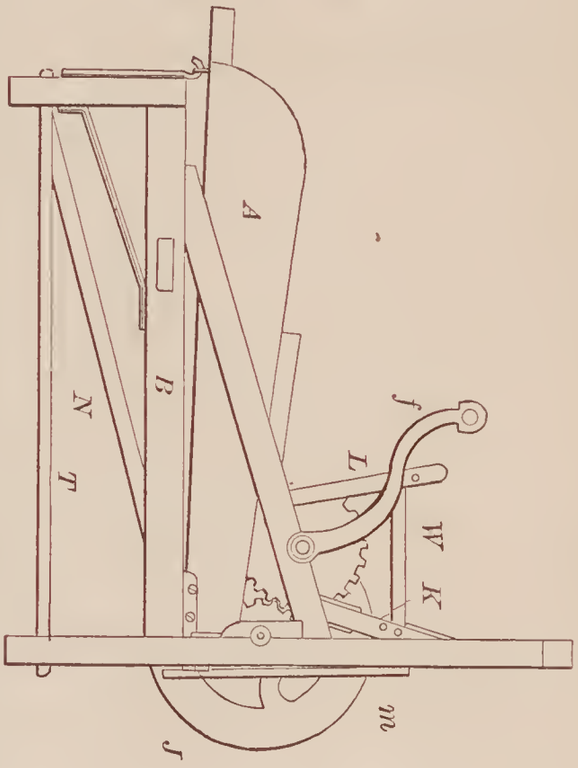


75437—C. A. Lundy—*Straw Cutter.*



75438—M. B. Marshall—*Animal Trap.*





75440—W. W. Mathews—*Trebletree.*

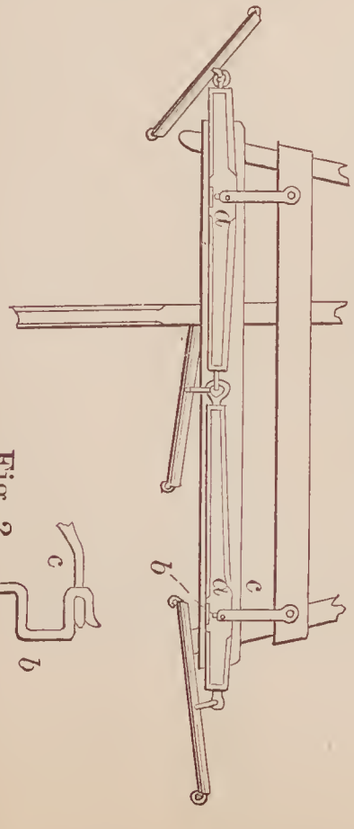
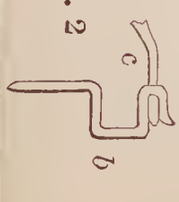
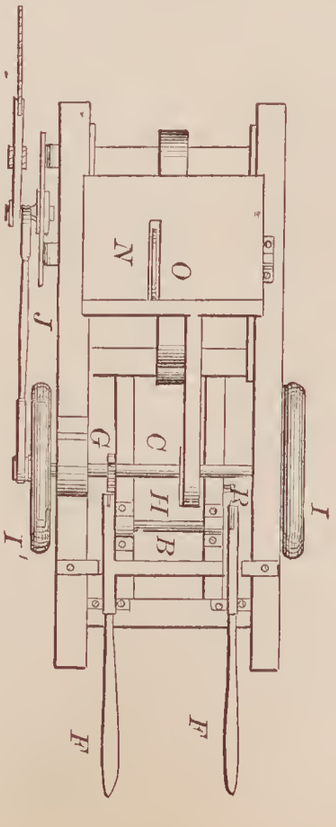
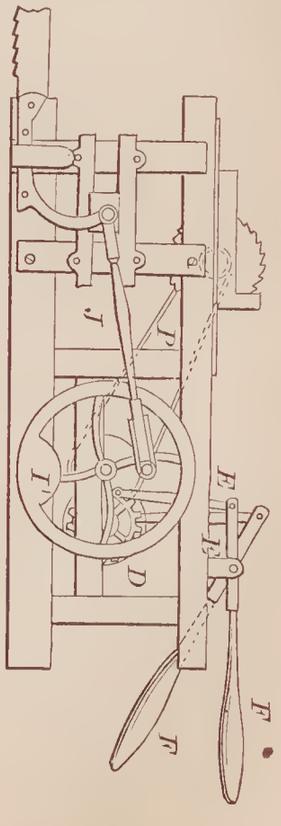


Fig. 2

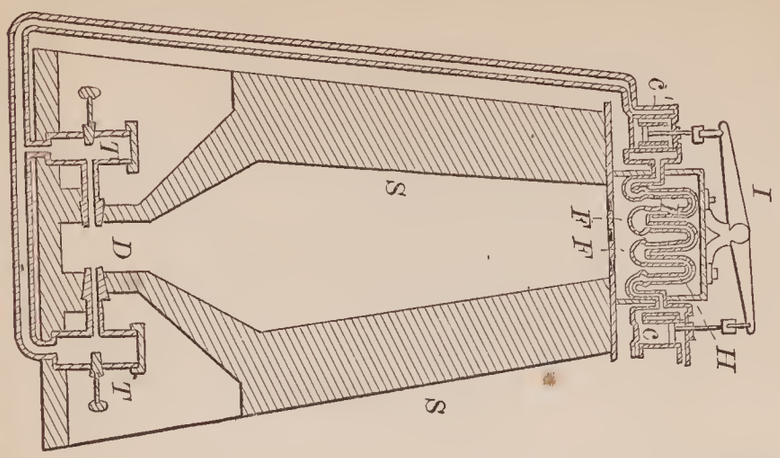




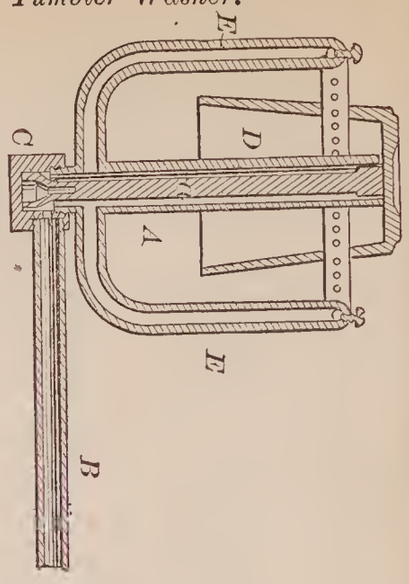
75441—J. W. Maxey—*Sawing Machine.*



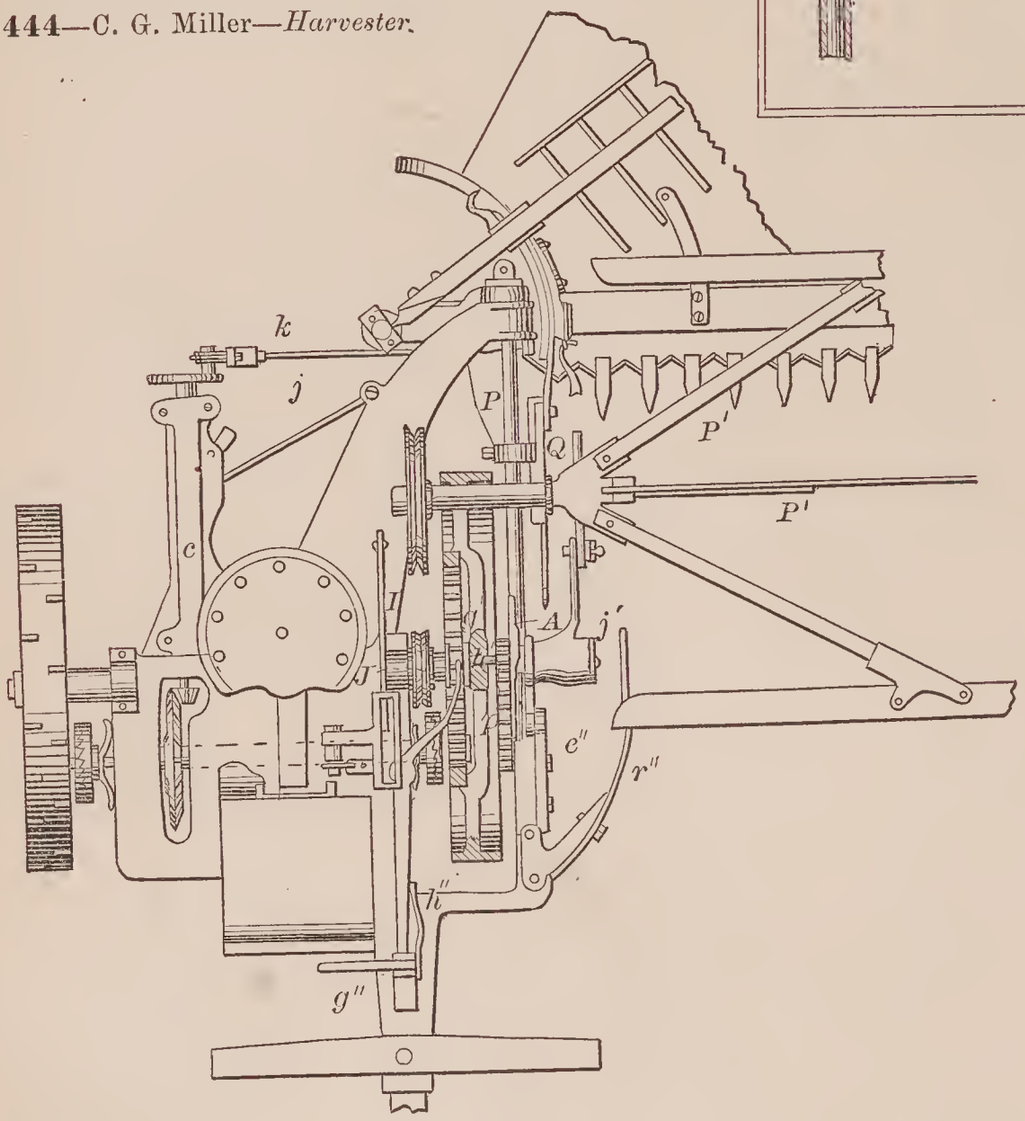
75442—T. McDowel—*Producing Hot Blast in Furnaces.*

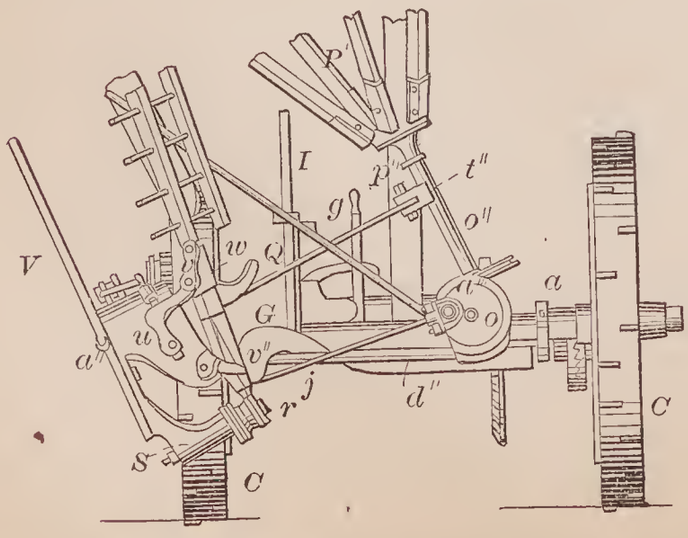


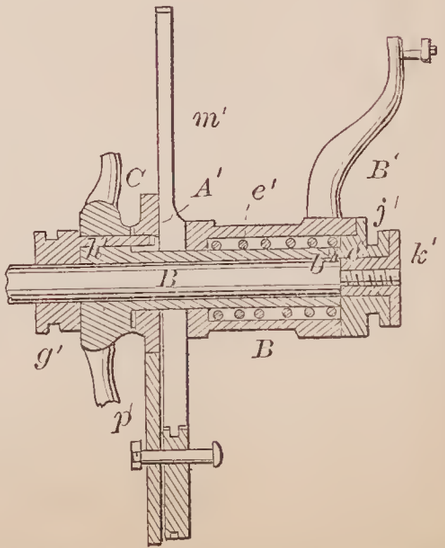
75443—J. P. Milburn—*Tumbler Washer.*



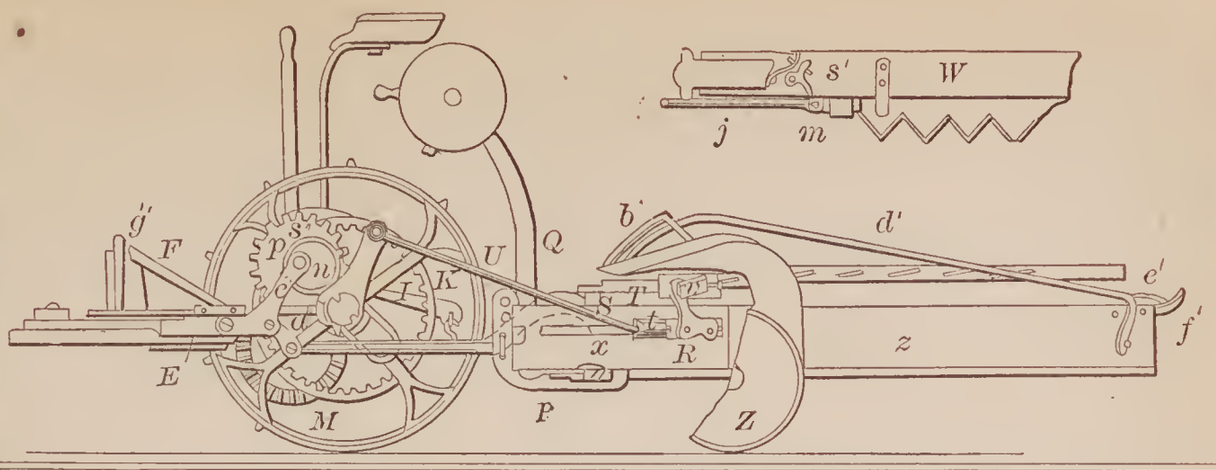
75444—C. G. Miller—*Harvester.*



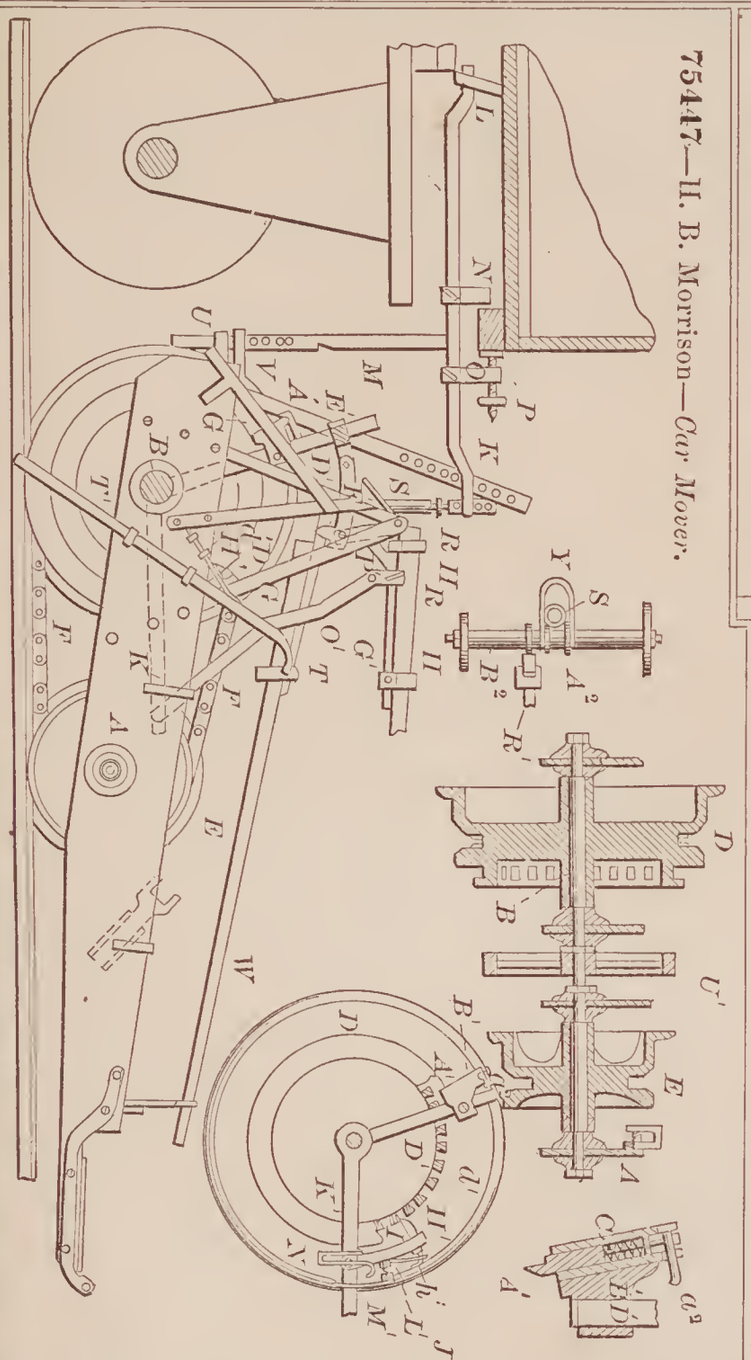




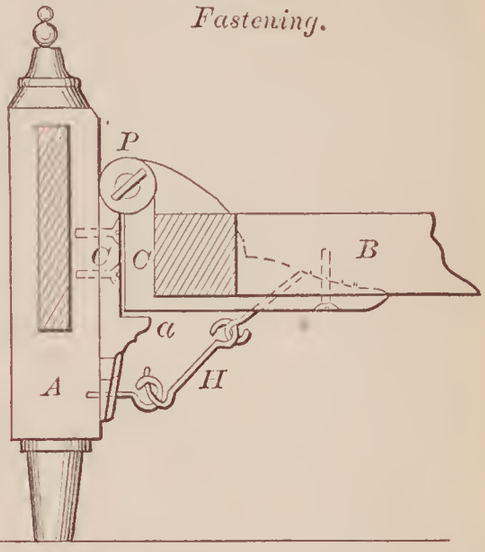
75444—*Continued.*



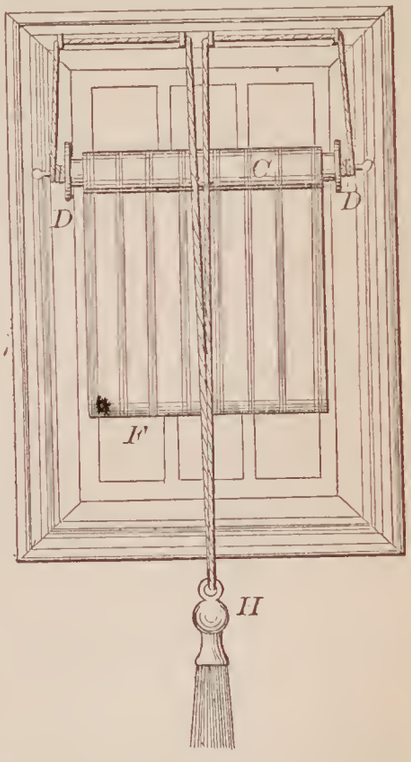
75447—H. B. Morrison—*Car Mover.*



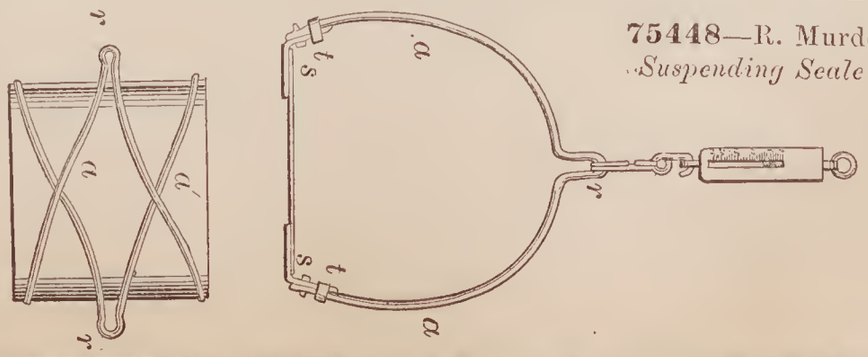
75445—J. E. Milliken—*Bedstead. Fastening.*



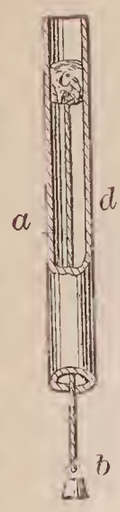
75446—J. B. Moore—*Window Shade Fixture.*



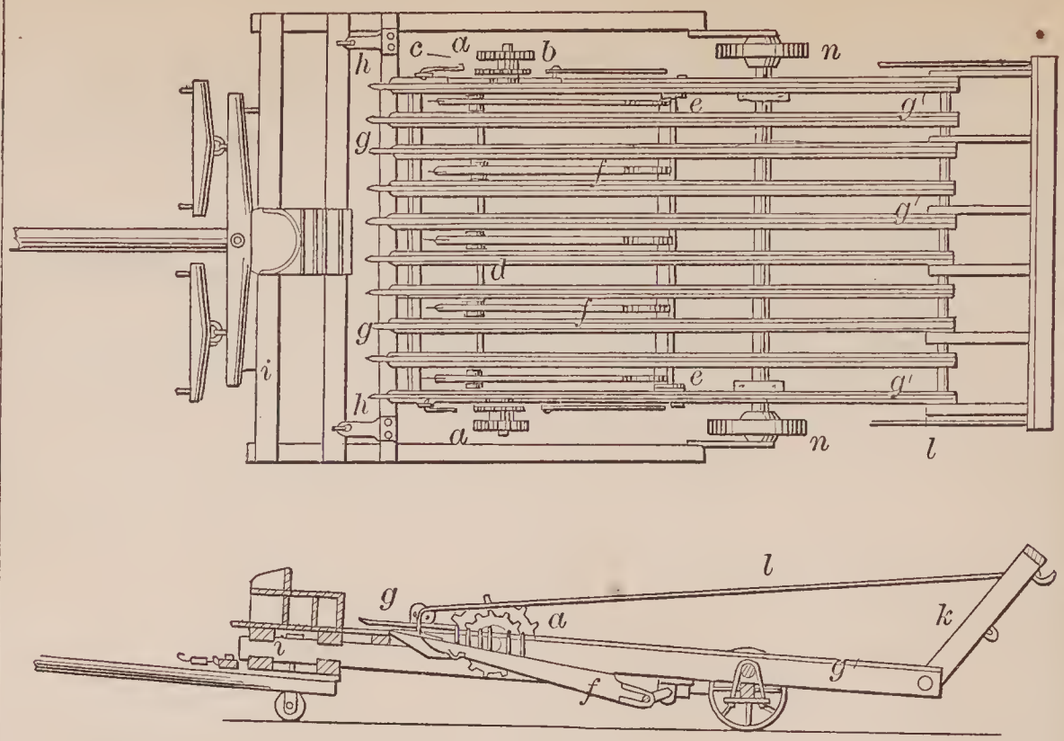
75448—R. Murdoch—*Suspending Scale Pan.*



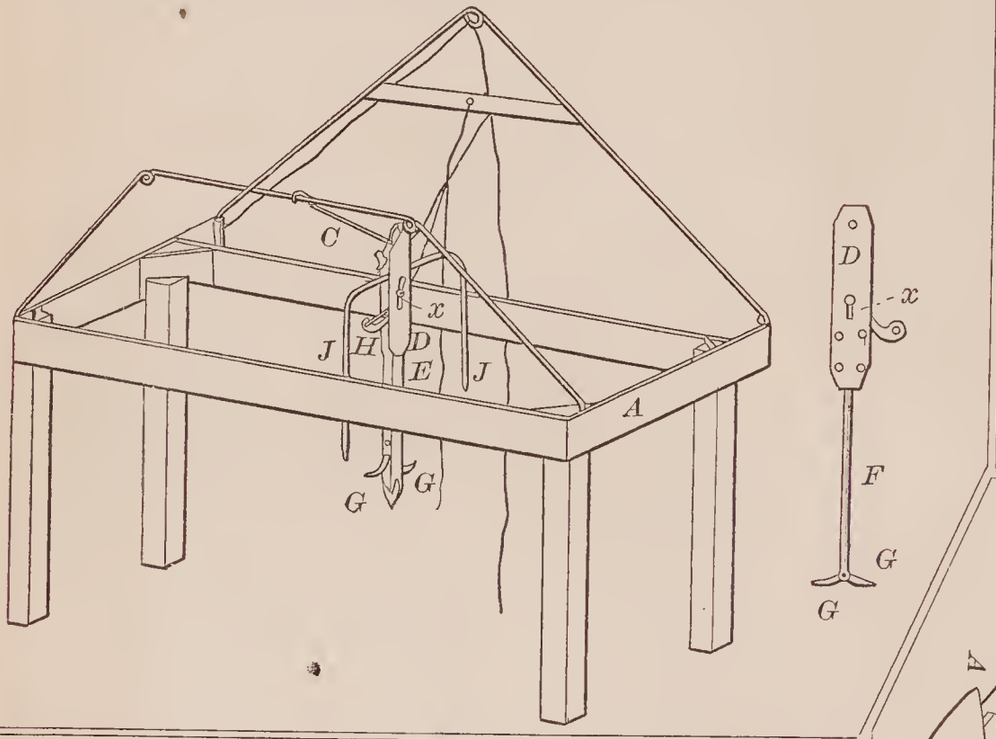
75449—P. Naylor—*Tinning.*



75450—W. T. Nicholas—*Hay Raker and Loader.*

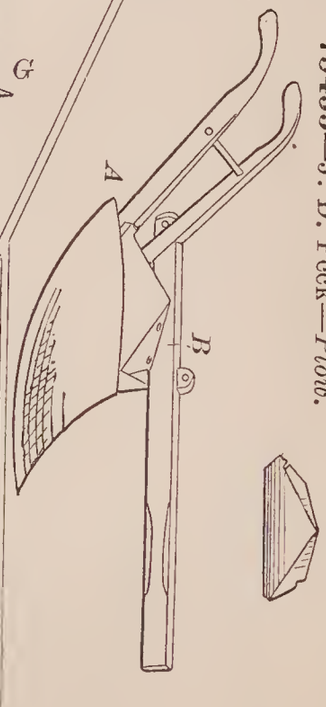


75452—S. Page—*Horse Hay Fork.*

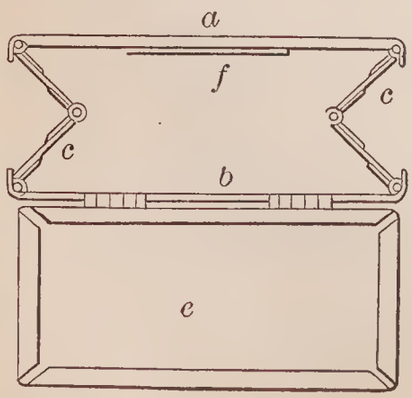


75454—I. T. Payne—*Auger.*

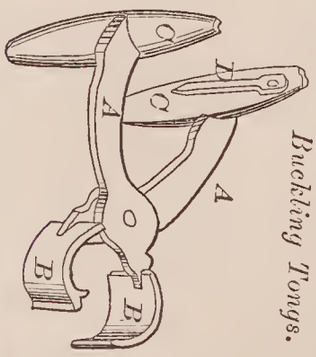
75455—J. D. Peck—*Plow.*



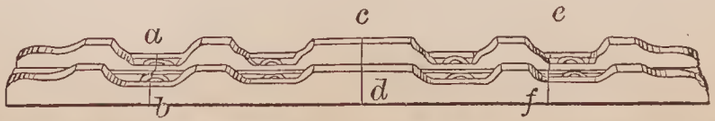
75451—P. H. Niles—*Lunch Box.*



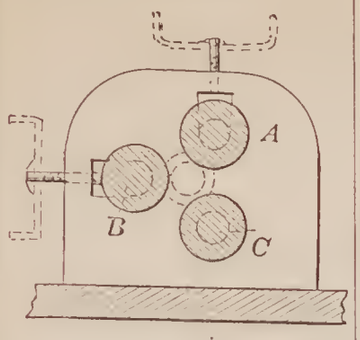
75453—W. P. Patton—*Skate Buckling Tongs.*



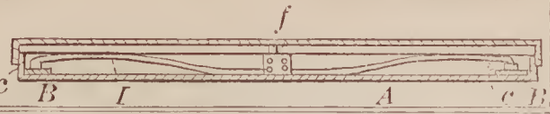
75456—C. H. Perkins—*Forming Horse Shoe Blanks.*



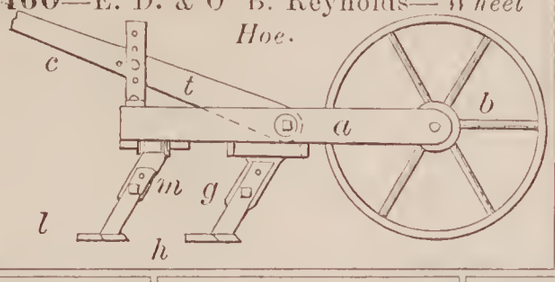
75457—W. P. Porter—*For Rolling Axles.*



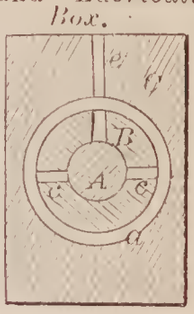
75458—A. W. Pratt—*Armlet Portmonnaie.*



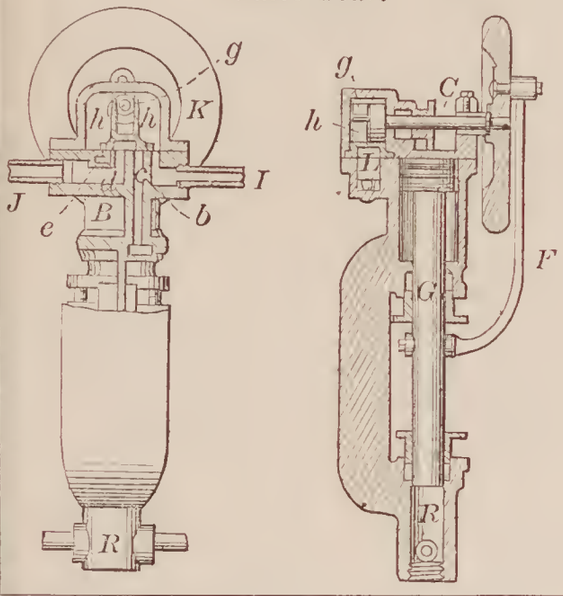
75460—E. D. & O. B. Reynolds—*Wheel Hoe.*



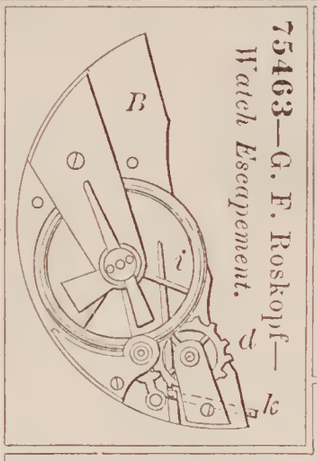
75465—Rowley & Poland—*Lubricating Box.*



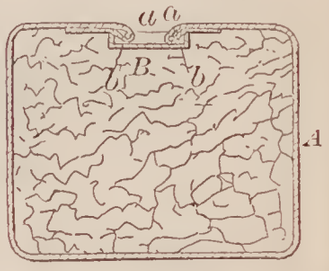
75459—Reaney & Cornell—*Steam Engine Valve Gear.*

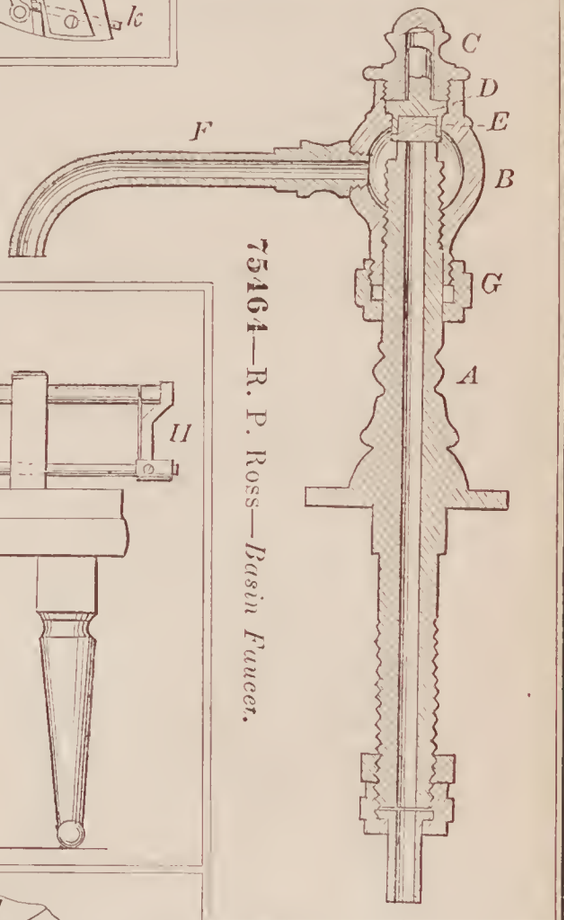


75463—G. F. Roskopf—*Watch Escapement.*



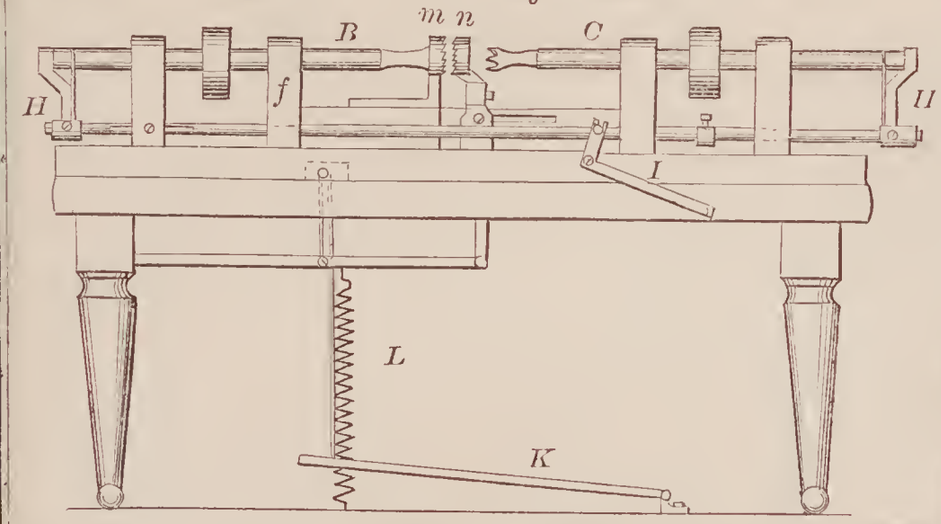
75461—E. S. Roberts—*Cotton Bale Tie.*



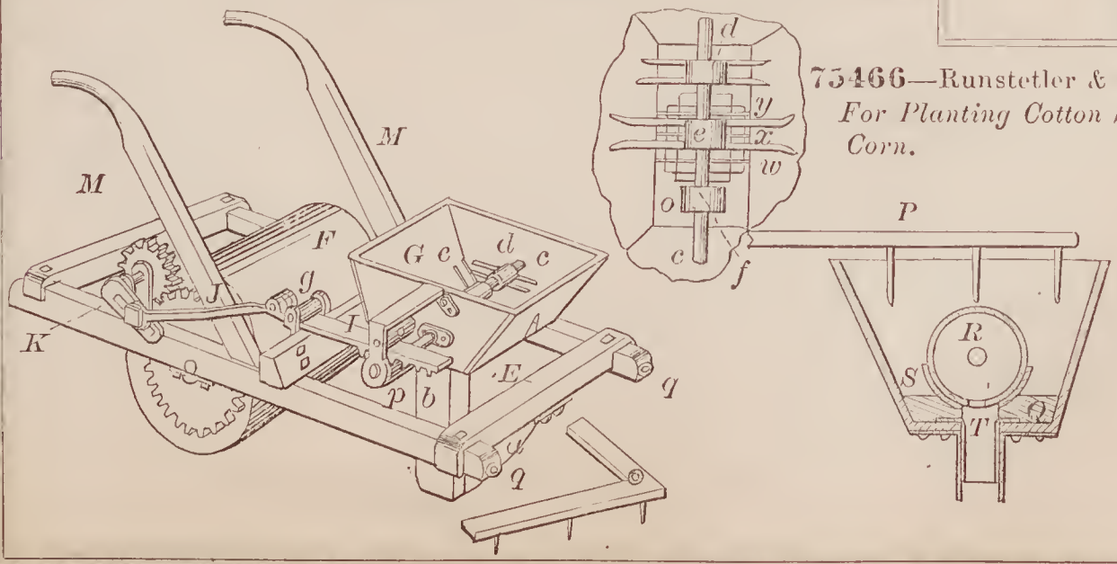


75464—R. P. Ross—*Basin Faucet.*

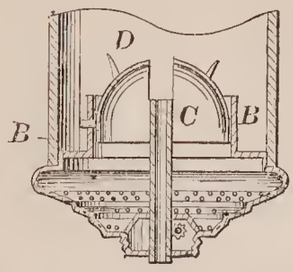
75462—D. C. Robie—*Button Turning Lathe*



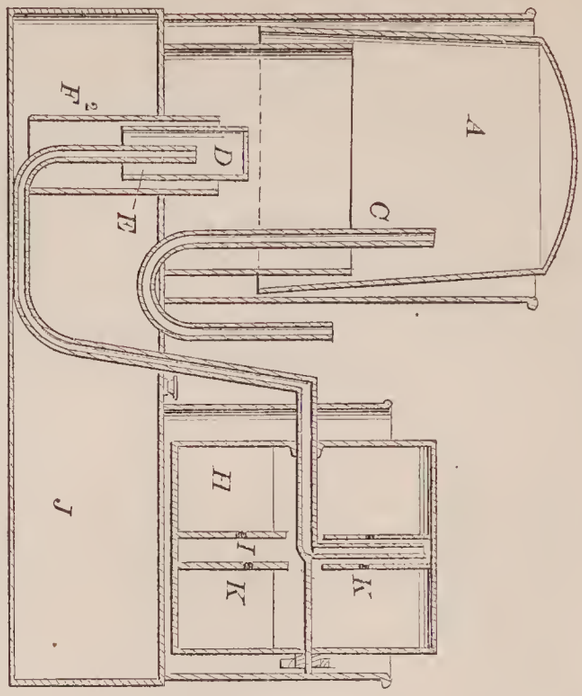
75466—Runstetler & Windeck—*For Planting Cotton Seed and Corn.*



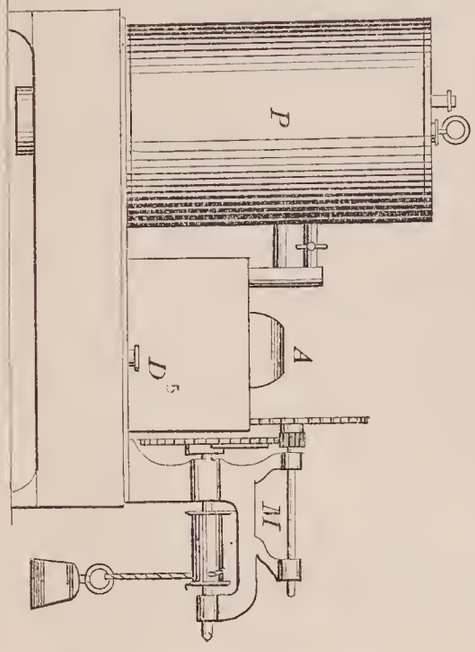
75467—L. L. Sagendorph—*Lamp.*



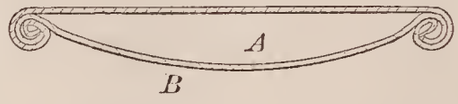
75469—J. Sangster—*For Carburetting Air.*

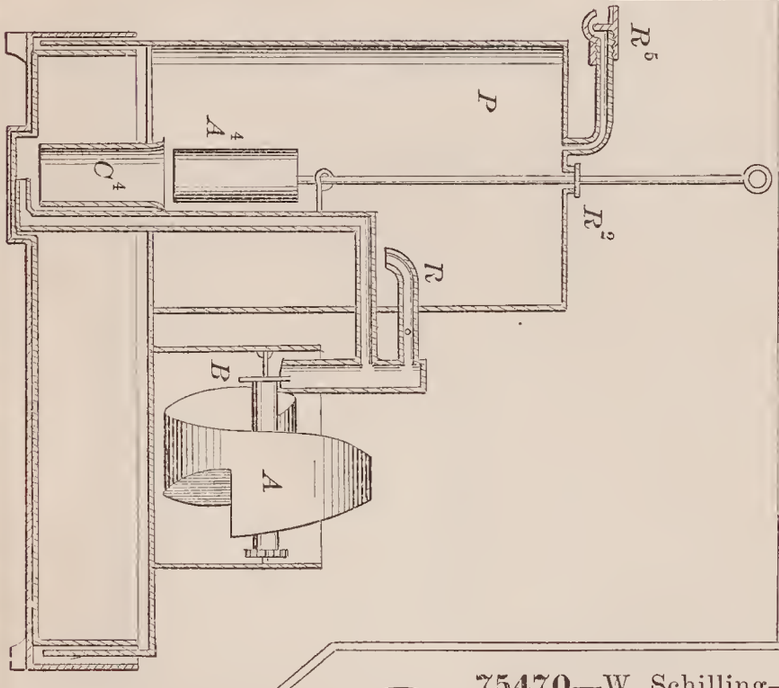


75468—J. Sangster—*For Carburetting Air.*

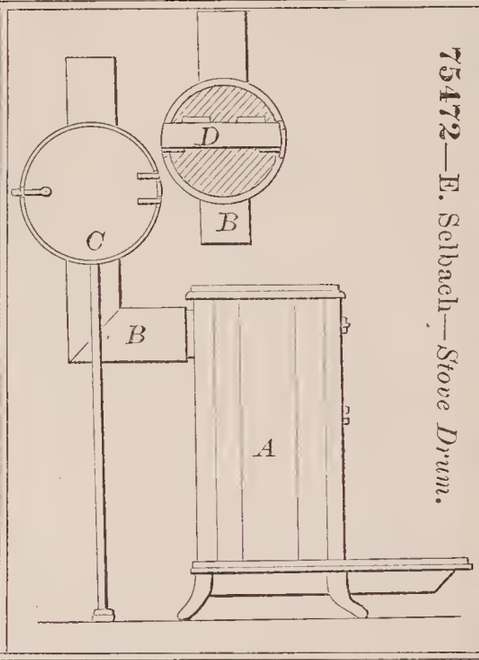


75471—G. Scott—*Razor Strop Holder.*

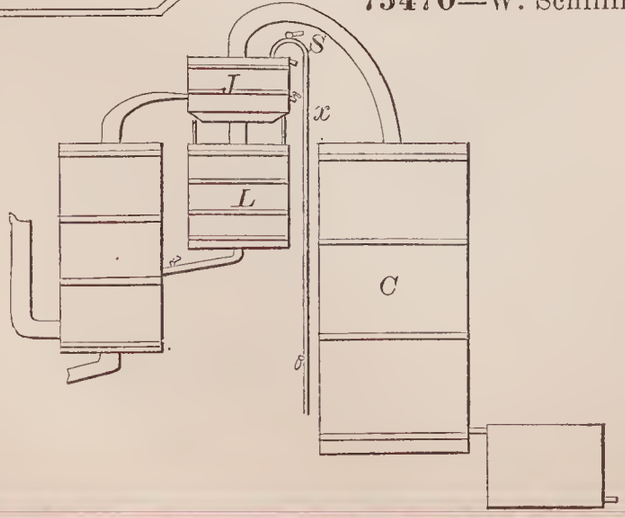


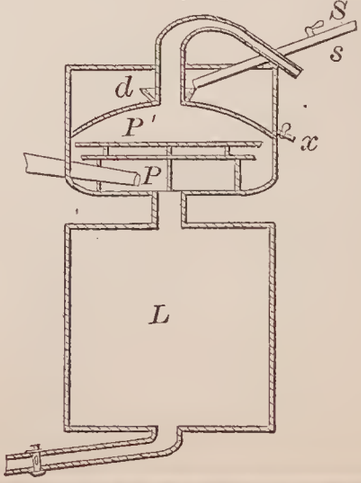


75472—E. Selbach—*Stove Drum.*

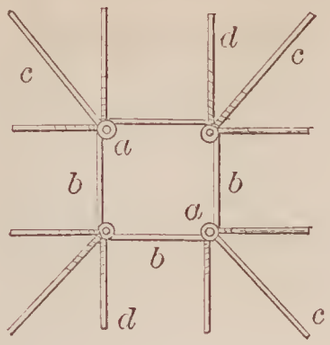


75470—W. Schilling—*For Distilling Spirituous Liquors.*

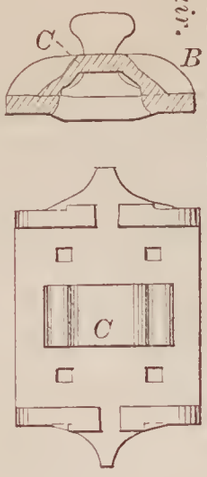




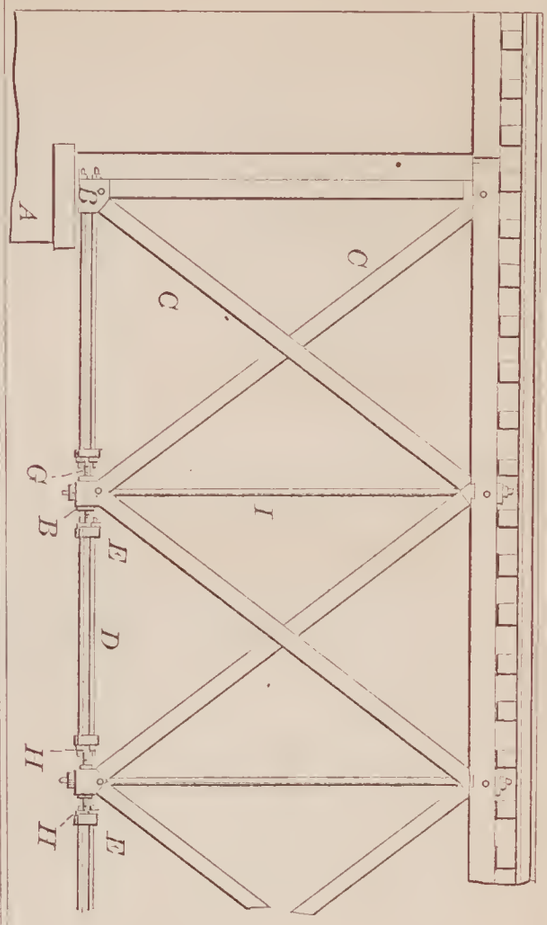
75474—Shoemaker & Phelps—*Hop Vine Frame.*

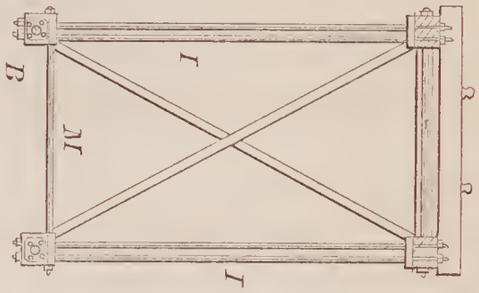


75475—W. S. Shotwell—*Railroad Chair.*

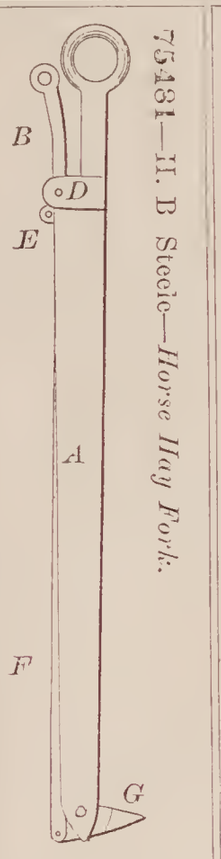


75477—F. H. Smith—*Bridge.*

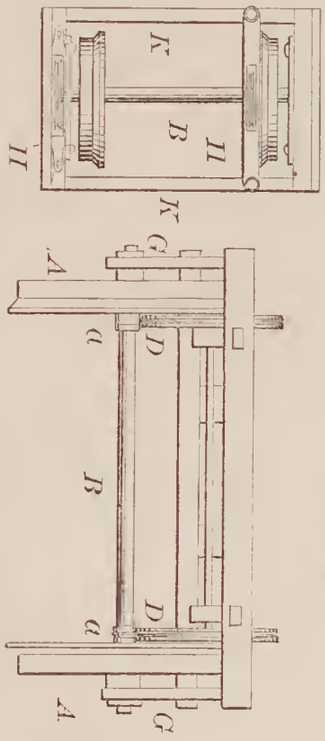




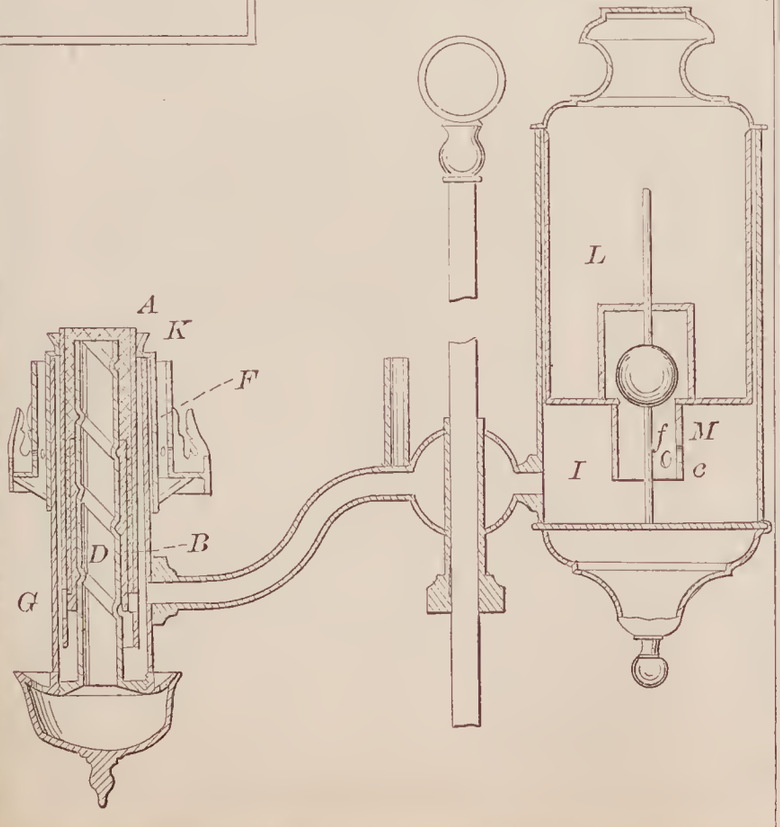
75481—H. B Steele—*Horse Hay Fork.*



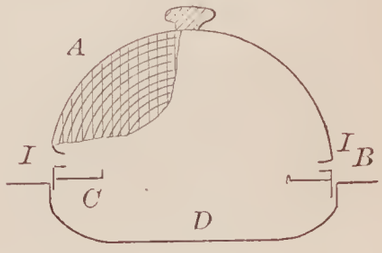
75476—W. S. Shotwell—*Railway Truck.*



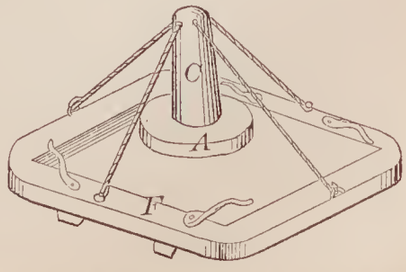
75479—W. H. Smith—*Lamp.*



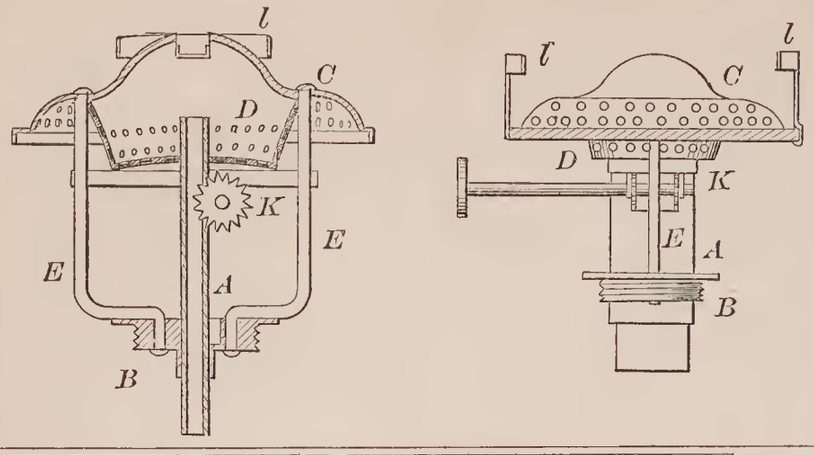
75480—A. Snyder—*Fly Trap.*



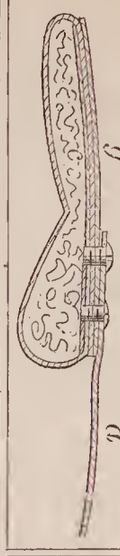
75482—J. Stehman—*Photographic Printing Apparatus.*



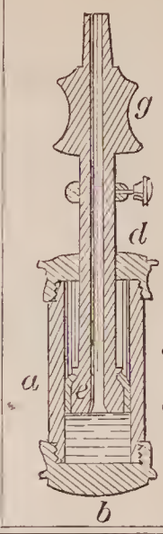
75483—C. St. John—*Lamp Burner.*



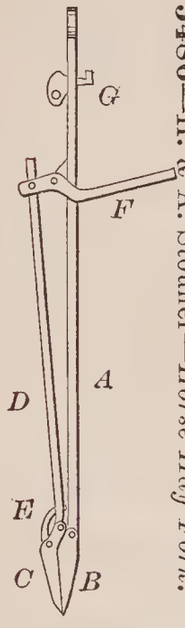
75484—F. A. Stohlmann—*Truss Pad.*



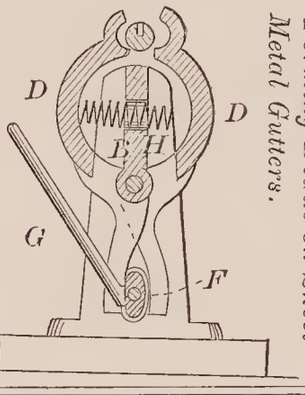
75485—F. A. Stohlmann—*Syringe.*



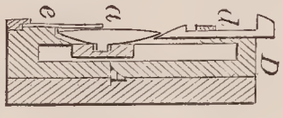
75486—H. & A. Stouffer—*Horse Hay Fork.*



75487—O. W. Stow—*For Forming Beads on Sheet Metal Gutters.*

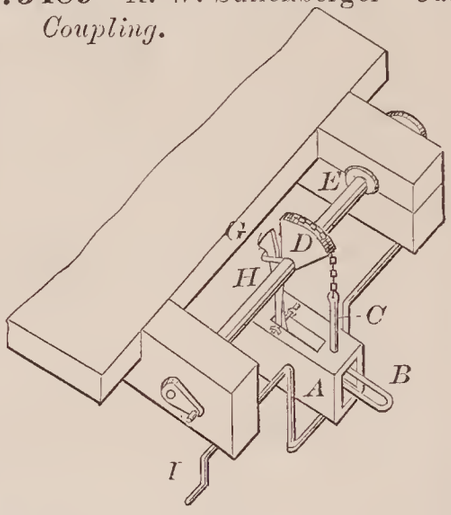


75488—E. E. Stubbs—

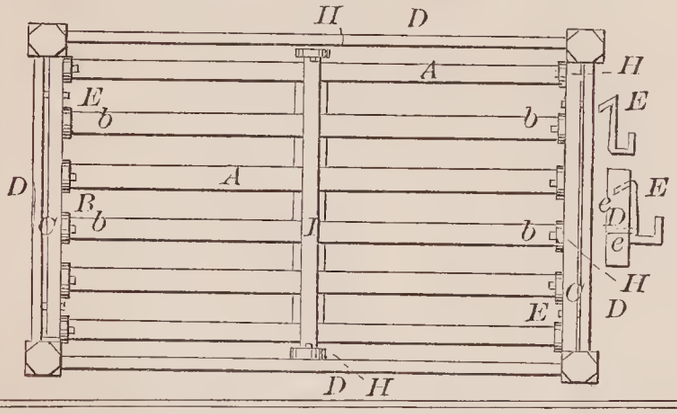


Bolt Fastening.

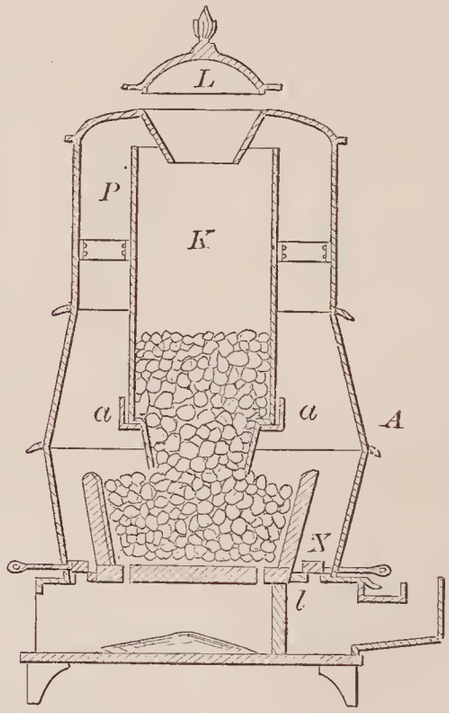
75489—A. W. Sullenberger—*Car Coupling.*



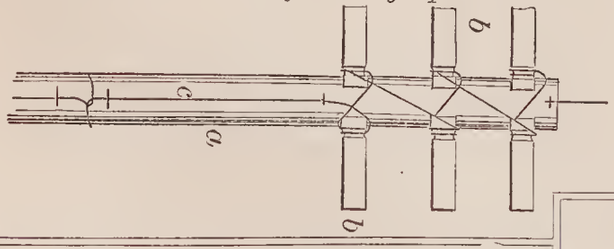
75490—R. Tattershall—*Spring Bed Bottom.*



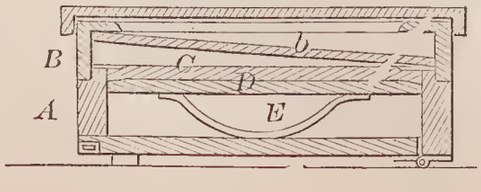
75491—Van Wormer & McGarvey—*Coal Stove.*



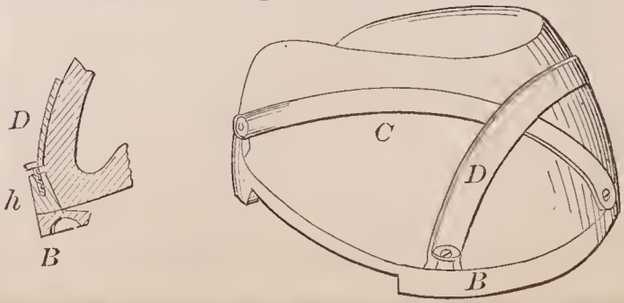
75492—C. F. Varley—*Telegraph Pole*



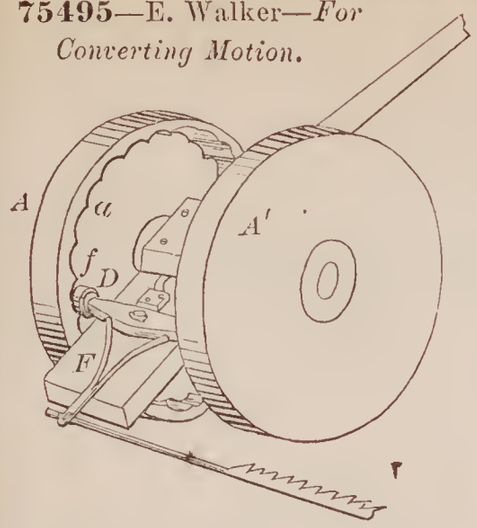
75493—H. Vogel—*Photometer.*



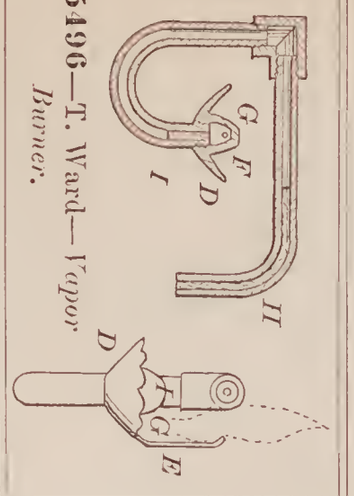
75494—J. Wagner—*Attaching Horse Shoes.*



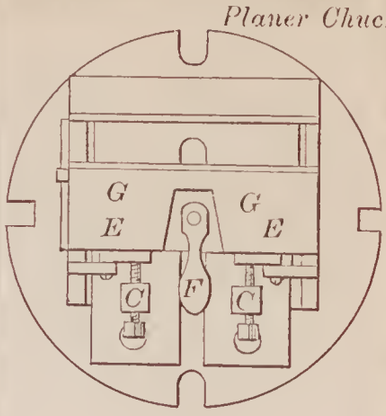
75495—E. Walker—*For Converting Motion.*



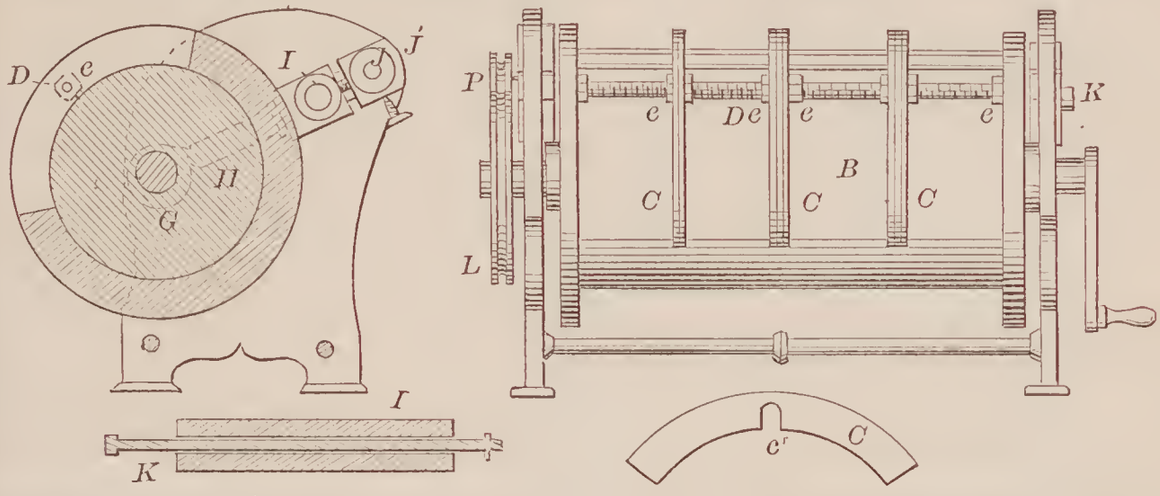
75496—T. Ward—*Vapor Burner.*



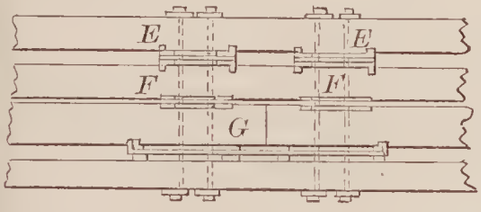
75498—W. H. Warren—*Planer Chuck.*



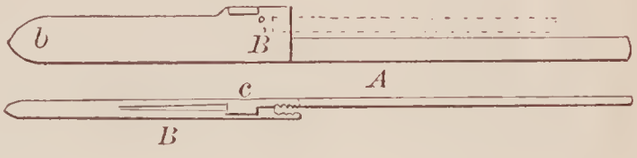
75499—L. B. Waterman—*Inking Apparatus for Color Printing.*



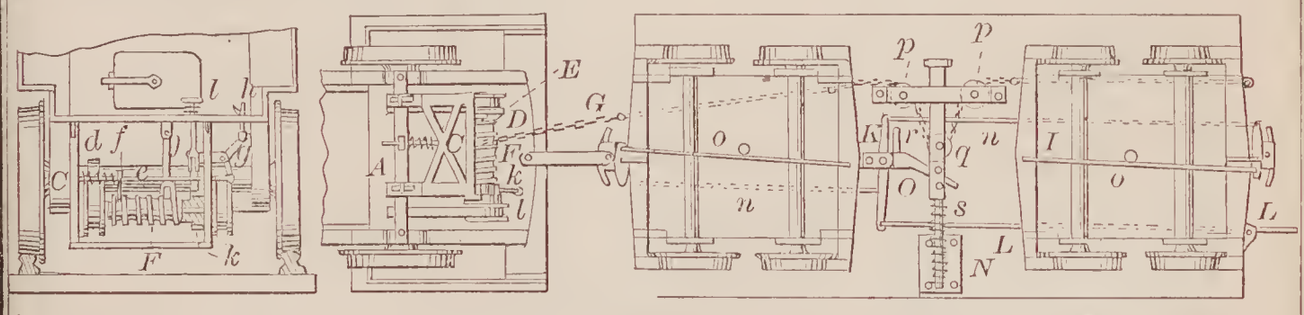
75502—T. B. White—*Bridge.*



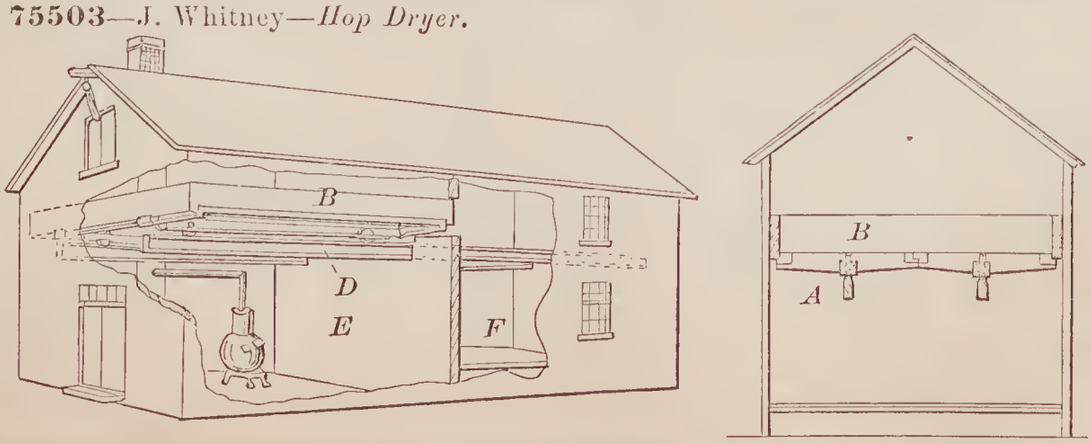
75500—G. A. Watkins—*For Making Chair Seats.*



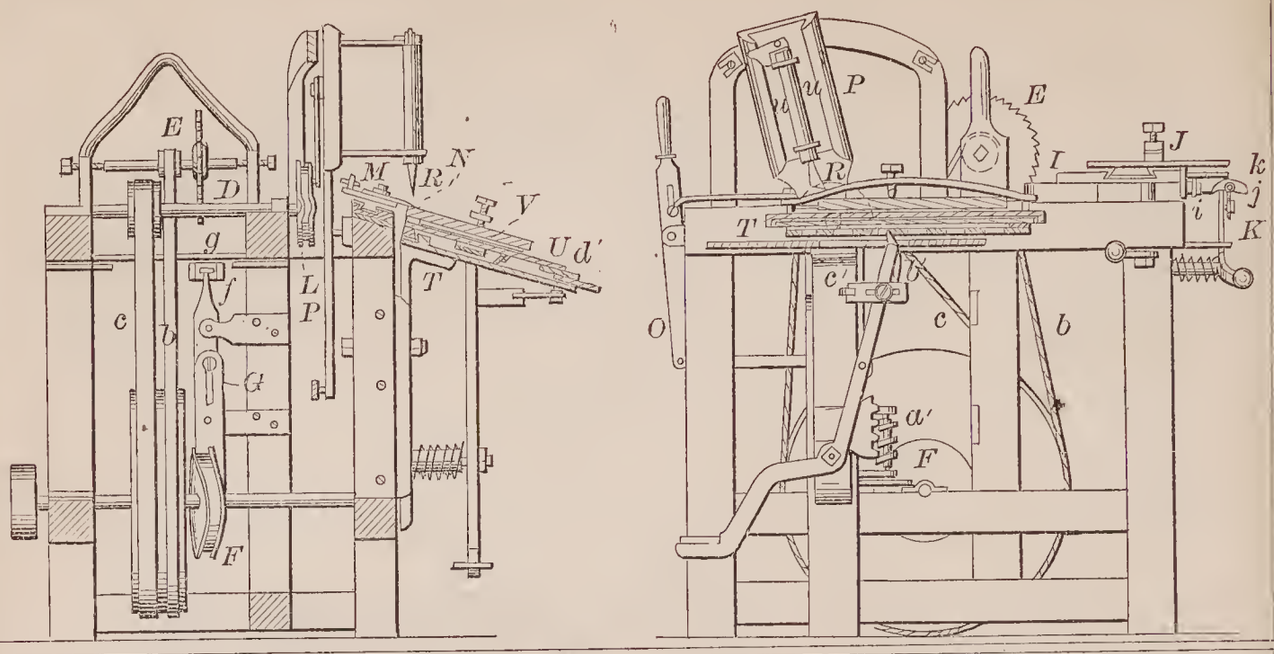
75501—White & Lingle—*Car Brake.*



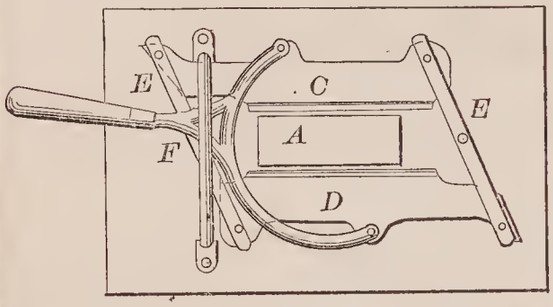
75503—J. Whitney—*Hop Dryer.*



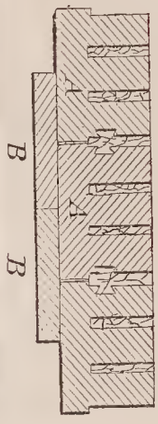
75506—R. Wolf—*Dovetail Machine.*



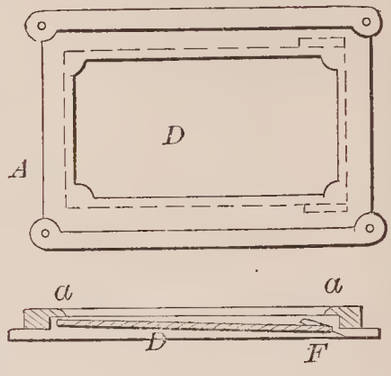
75508—T. P. Allen—*Feed Cutter.*



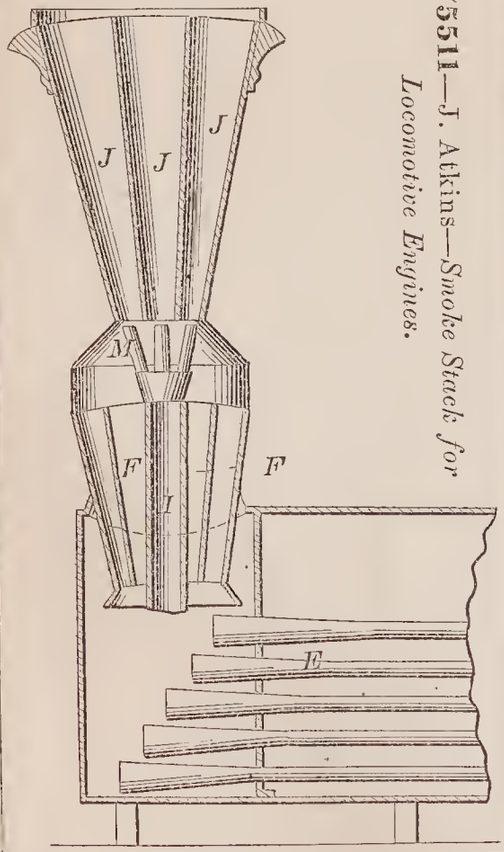
75504—C. Williams—*Pavement.*



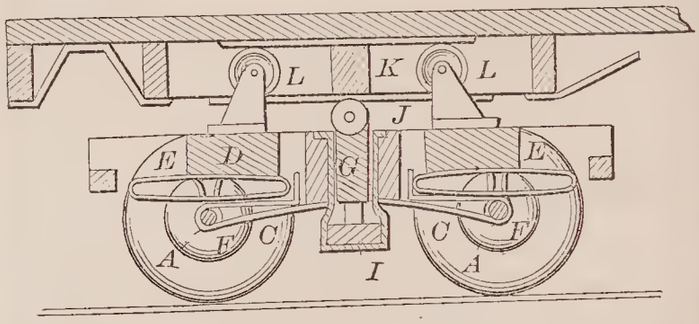
75507—W. I. Adams—*Card Holder.*



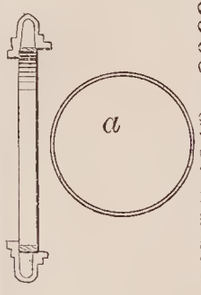
75511—J. Atkins—*Smoke Stack for Locomotive Engines.*



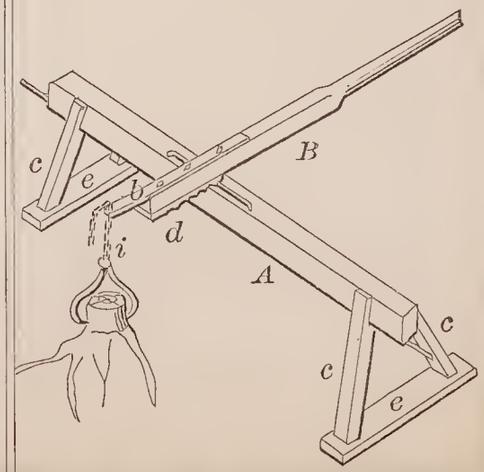
75513—J. Baysore—*Car Truck.*



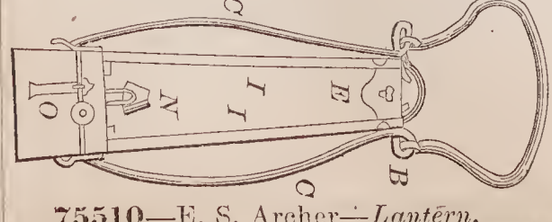
75505—G. J. Willson—*Watch Case.*



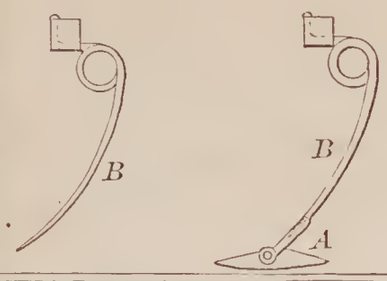
75512—S. S. Avis—*Stump Extractor.*



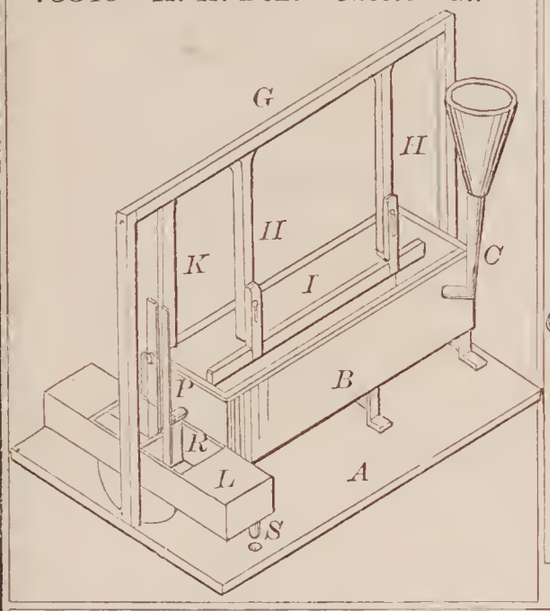
75510—E. S. Archer—*Lantern.*



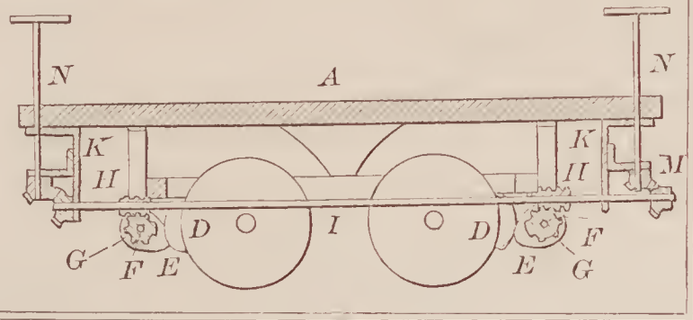
75514—H. L. Beach—*Horse Rake.*



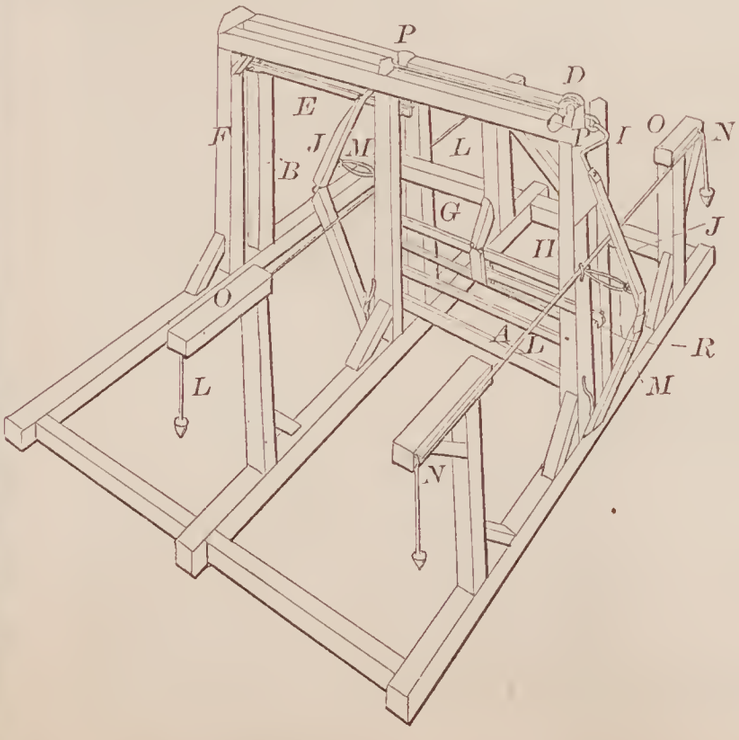
75515—H. H. Bent—*Cheese Vat.*



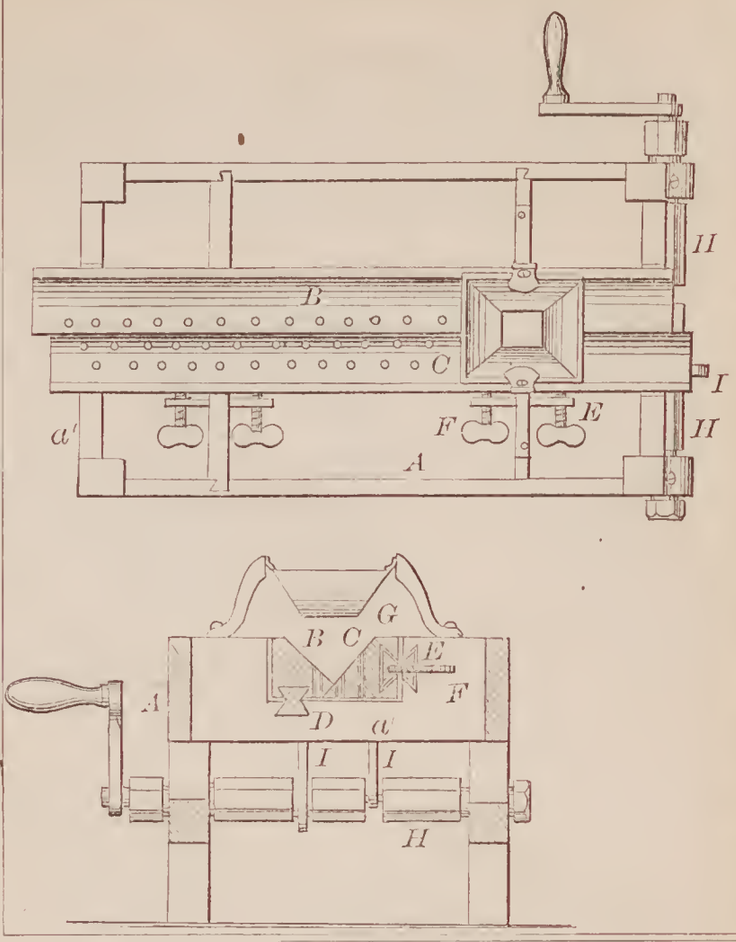
75518—W. H. Burke—*Car Brake.*



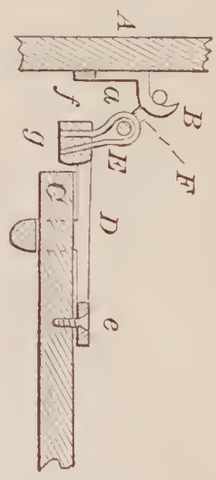
75517—W. Brown—*Farm Gate.*



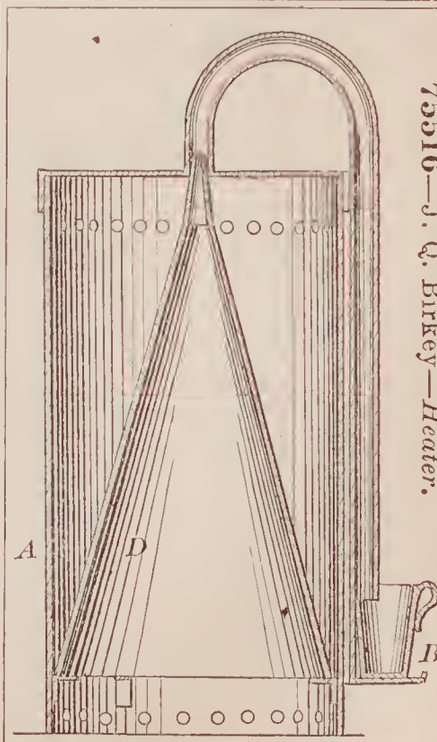
75520—W. T. Chaffee—*Grain Separator.*



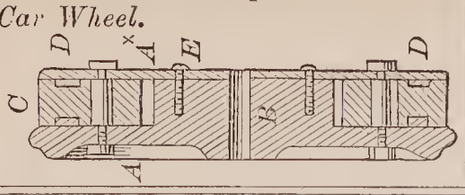
75519—E. Caswell—*Bed Bottom.*



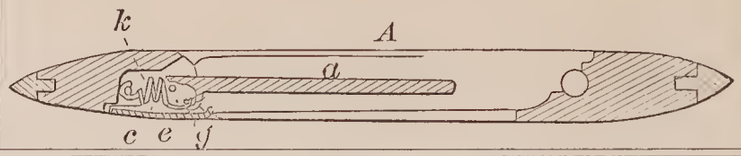
75516—J. Q. Birkey—*Heater.*



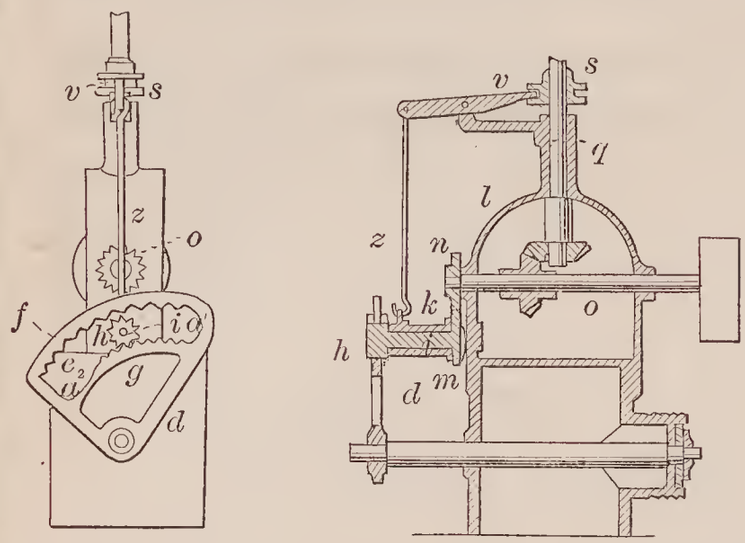
75521—S. B. Chapman—*Car Wheel.*



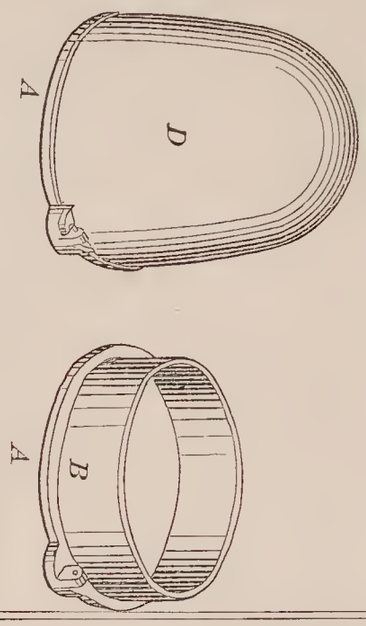
75522—D. G. Chase—*Shuttle.*



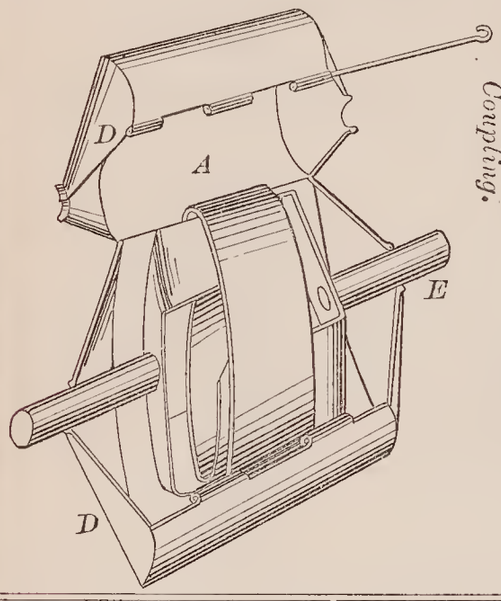
75523—D. L. F. Chase—*Steam Engine Governor.*



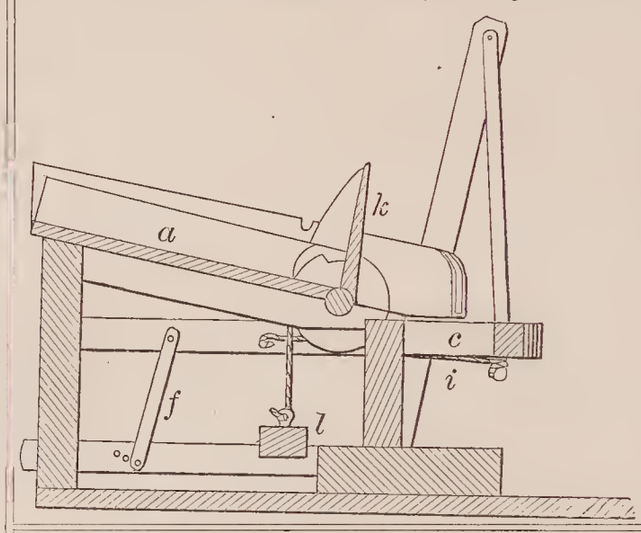
75524—J. Chase, Jr.—*Bake Pan.*



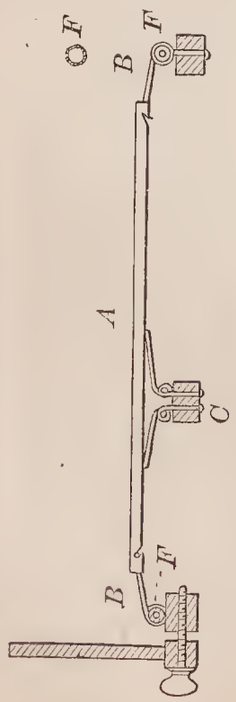
75525—S. E. Chase—*Covering for Shaft Coupling.*



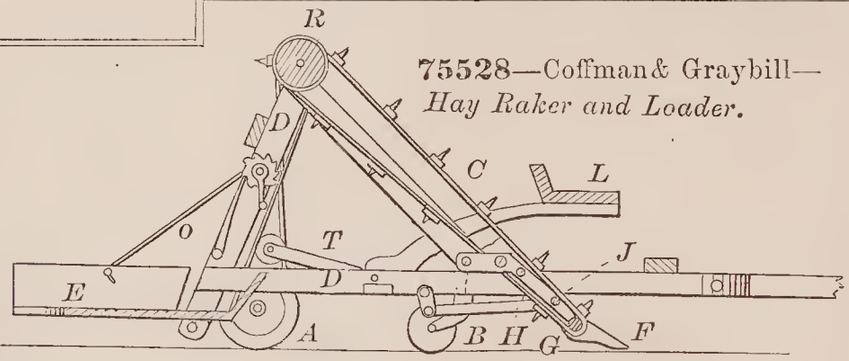
75526—J. A. Clarke—*Ferry Bridge Guard.*

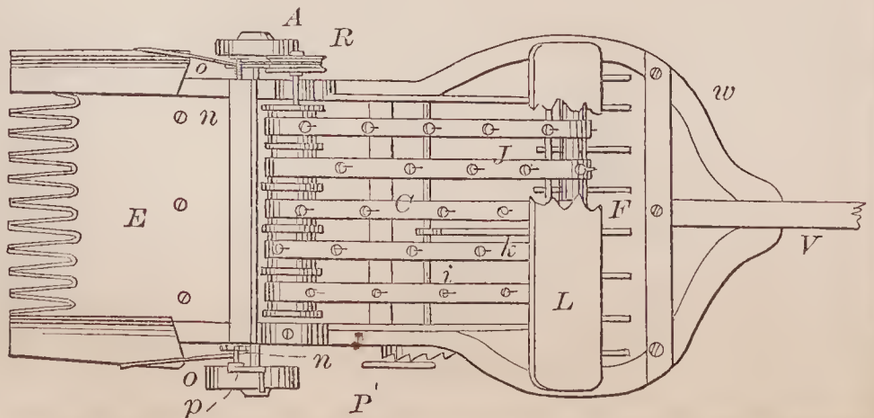


75527—J. C. Clime—*Bedstead.*

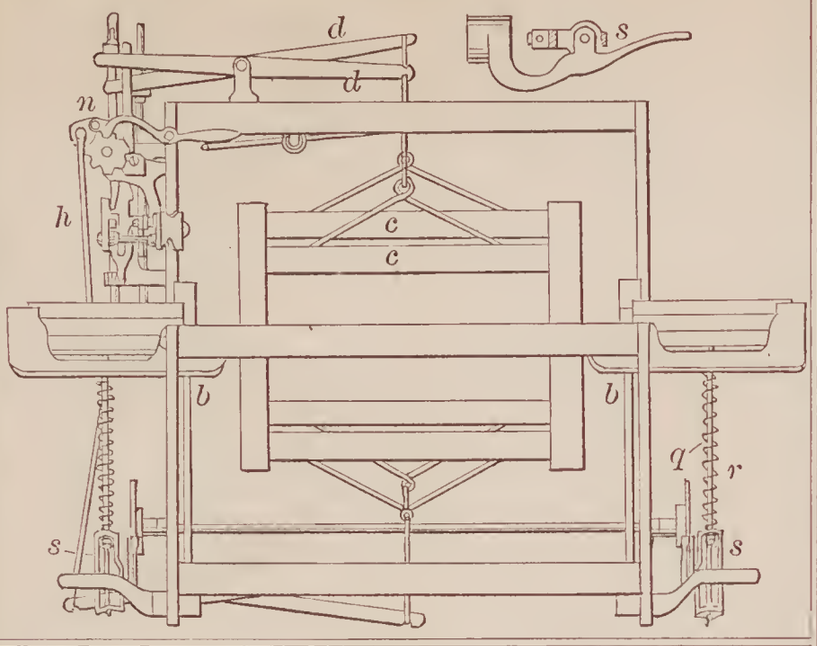


75528—Coffman & Graybill—*Hay Raker and Loader.*

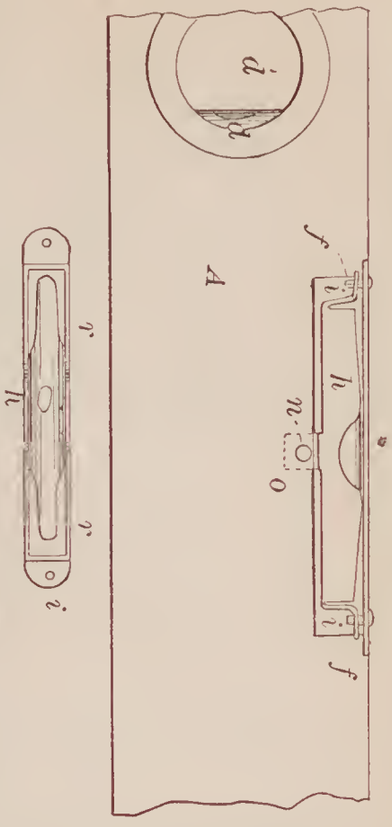




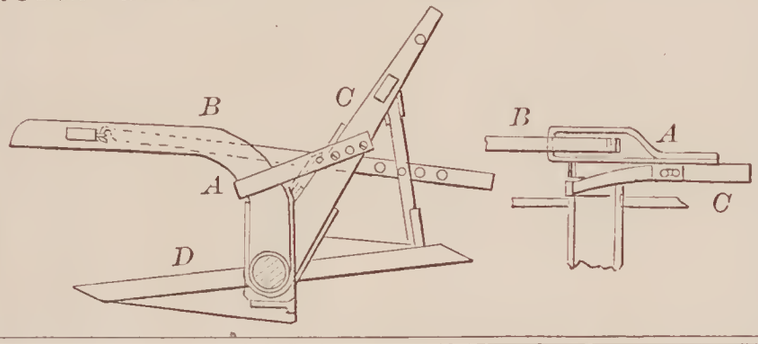
75530—G. Crompton—*Loom.*



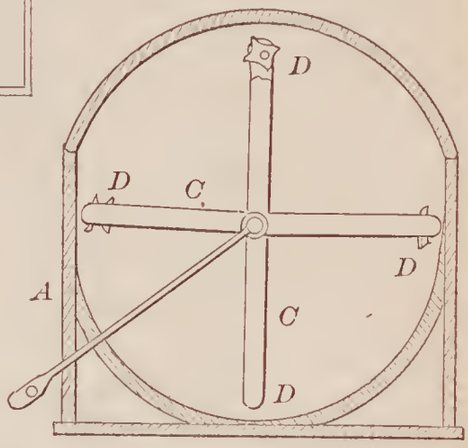
75534—L. L. Davis—*Adjustable Spirit Level.*



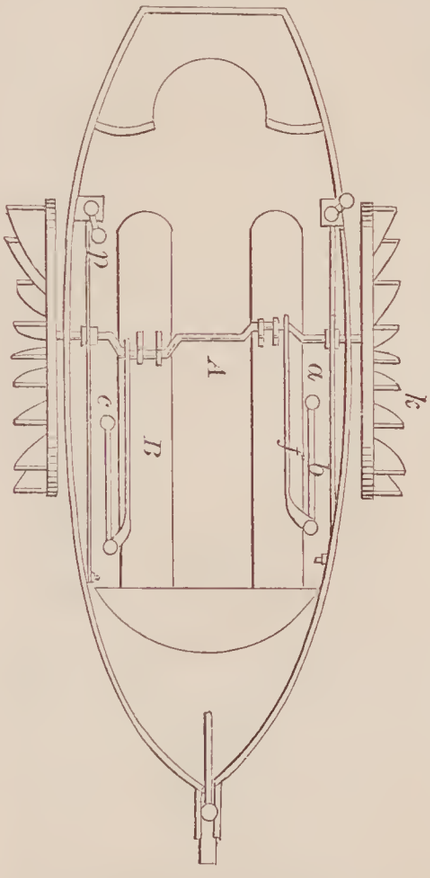
75532—B. W. Davis—*Horse Rake.*



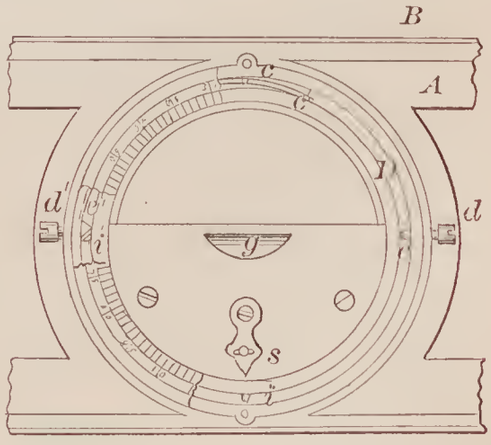
75539—G. C. Fitch—*Churn.*



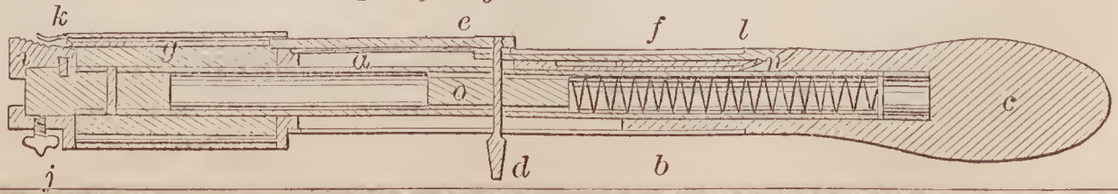
75531—W. G. Crossley—*Velocipede.*



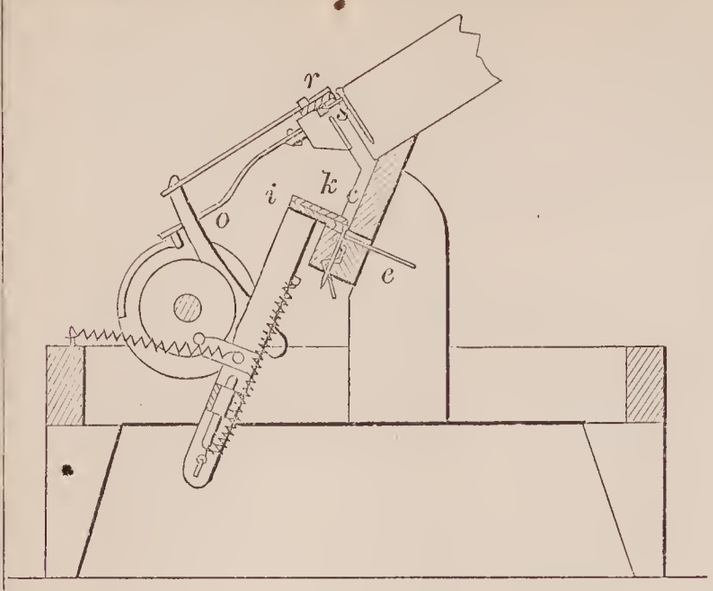
75533—L. L. Davis—*Spirit Level.*



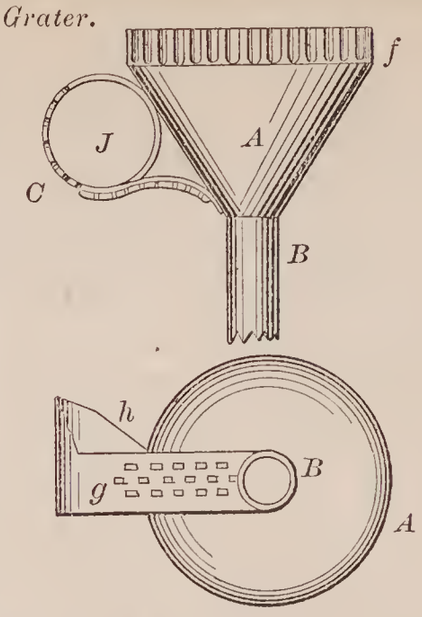
75529—N. L. Cole—*Lamp Lighting Device.*



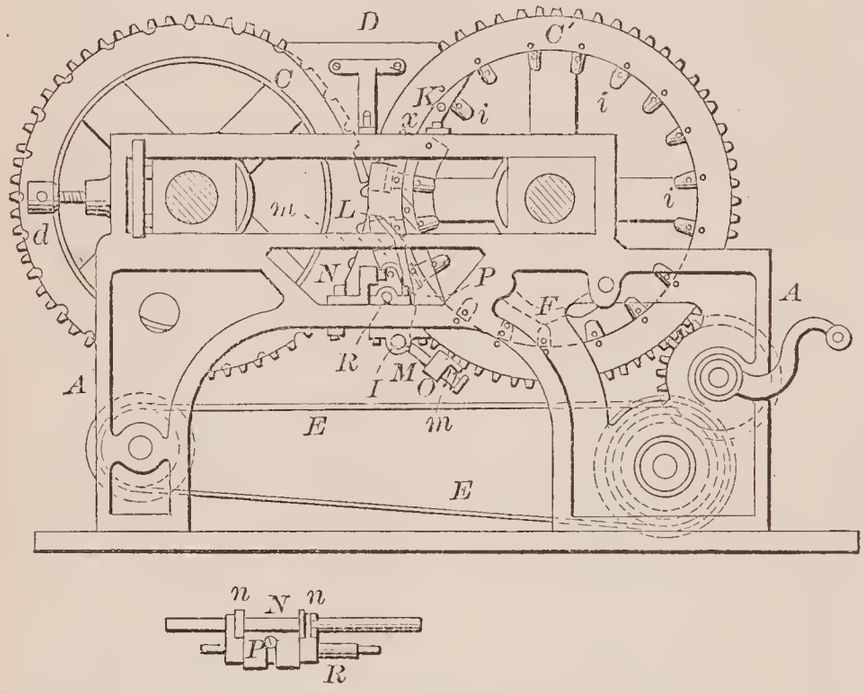
75540—T. Fowler—*For Papering Pins.*



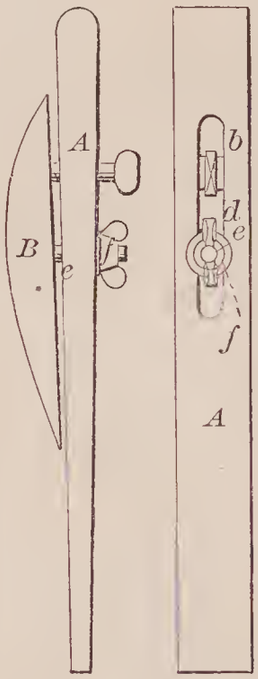
75541—E. A. Goodes—*Funnel and Grater.*



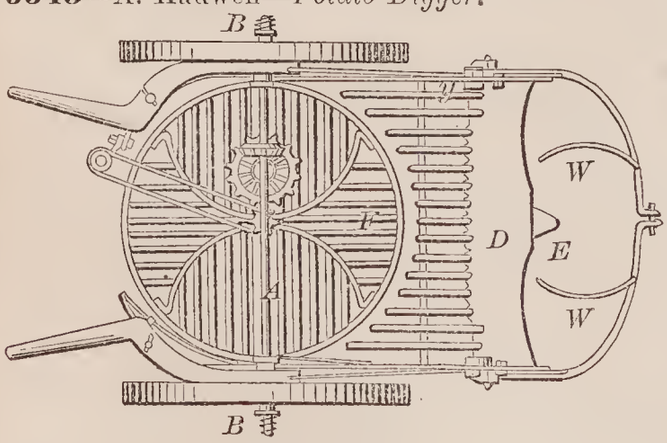
75542—W. A. Graham—*Brick Machine.*

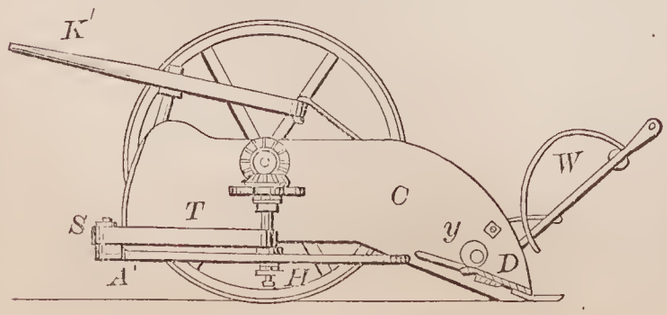


75545—F. Haskins—*Shuttle Binder.*

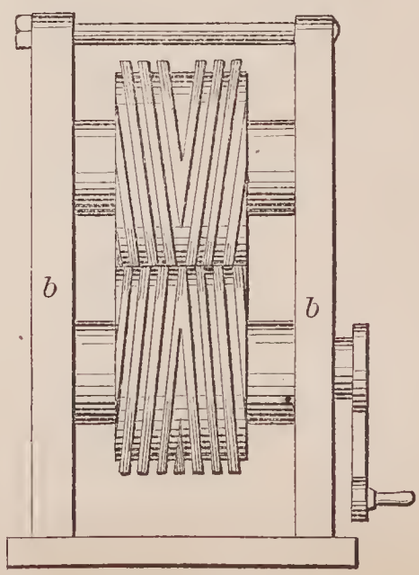


75543—A. Hadwen—*Potato Digger.*

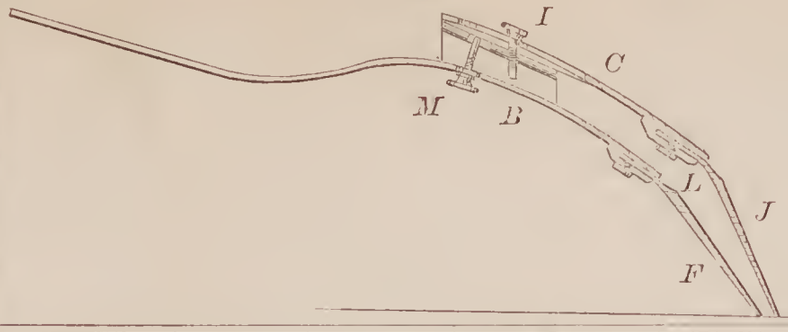




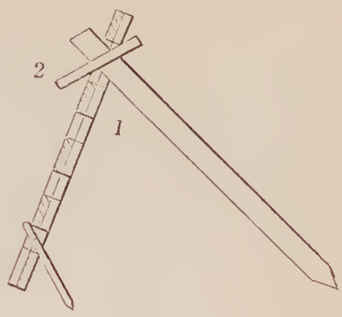
75544—U. Haskin, Jr.—*Spiral Gearing.*



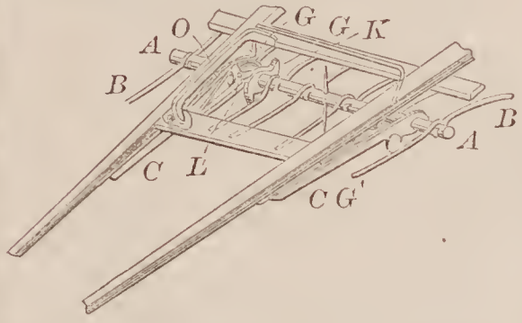
75546—I. W. Henderson—*Pen Holder for Ruling Machines.*



75551—S. Keller—*Fence.*

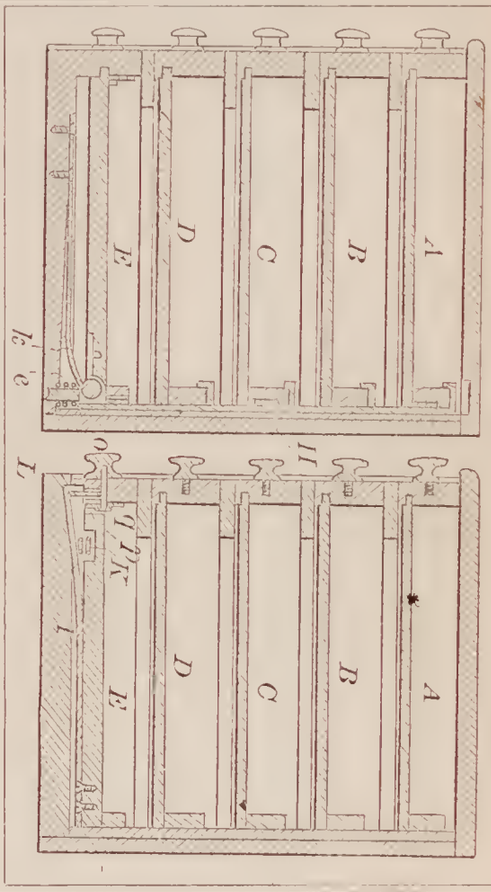


75548—J. N. Hicks—*Horse Rake.*

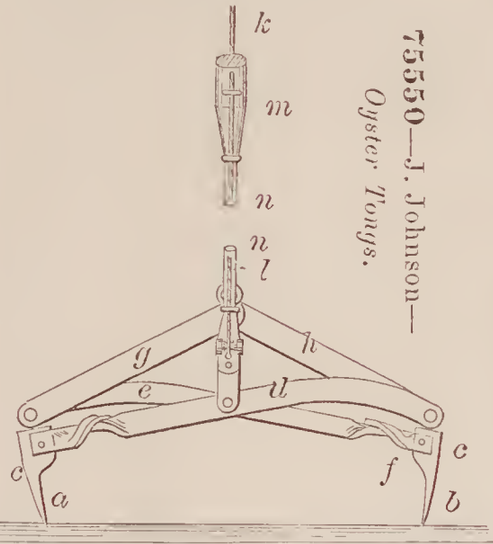


75554—H. Lemaistre—*Belting.*

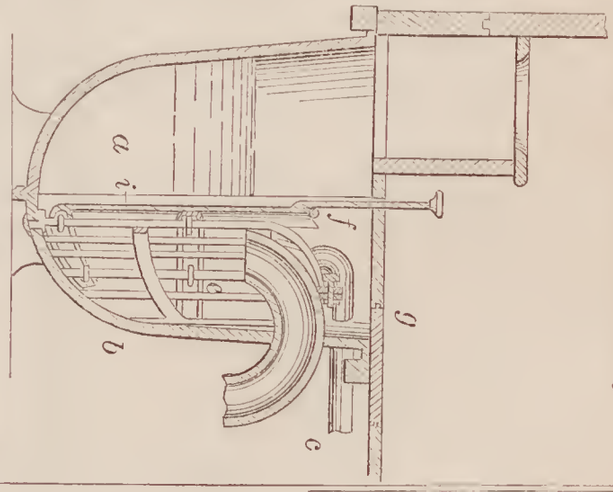
75553—J. Koch—*Furniture Drawer and Fastening.*



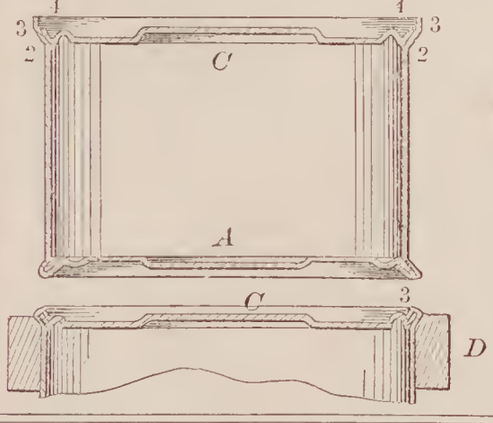
75550—J. Johnson—*Oyster Tongs.*



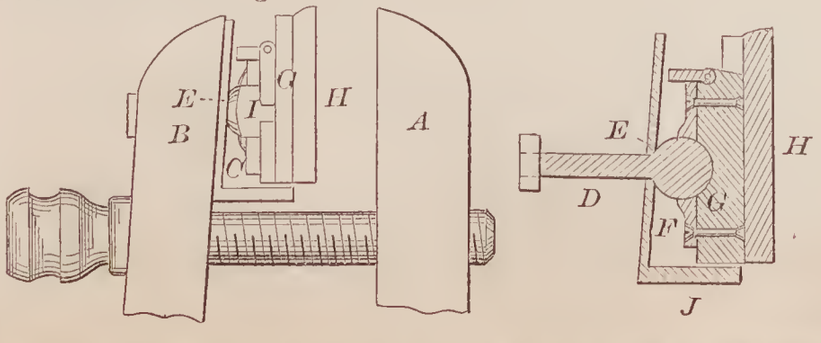
75549—J. Ingram—*Privy.*



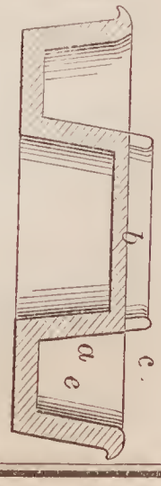
75547—P. Hickey—*Can for Alkalies.*



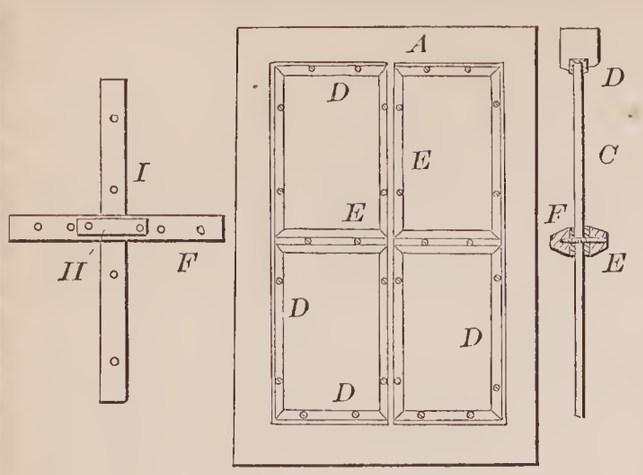
75552—H. N. King—*Vise Jaw.*



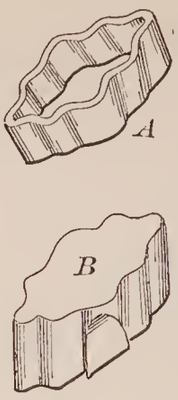
75555—W. Lilley—*Treatment of House Plants.*



75556—J. Liness—*Window Sash.*

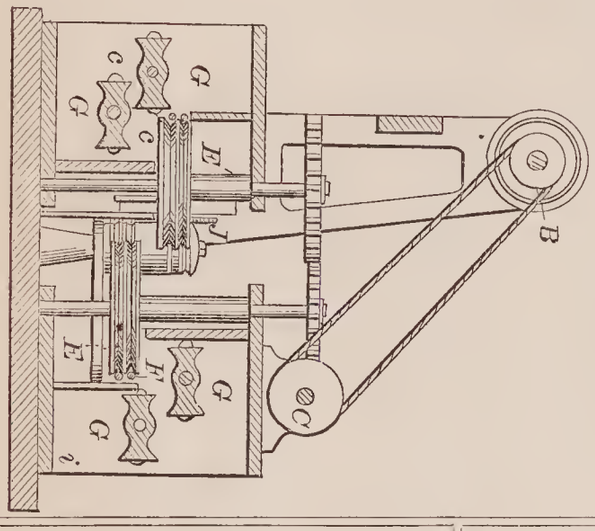


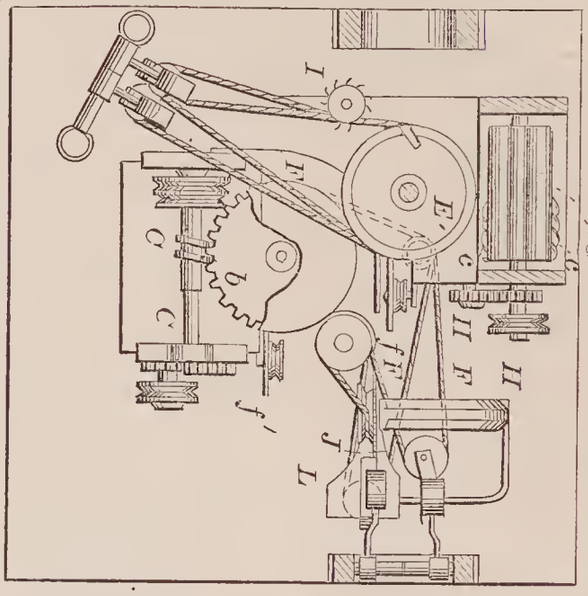
75558—J. B. Macduff—*Forming Raised Ornaments on Wood.*



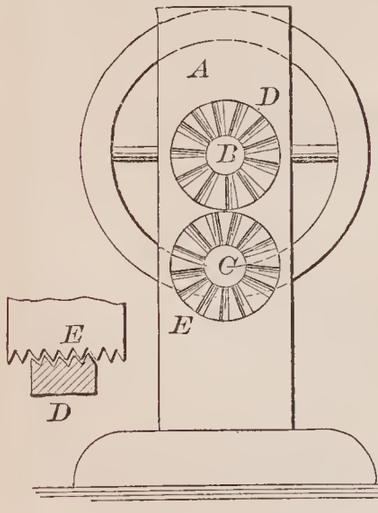
75562—B. S. Morgan—*Clothes Pounder.*

75559—W. C. McBride—*For Dressing Flax.*

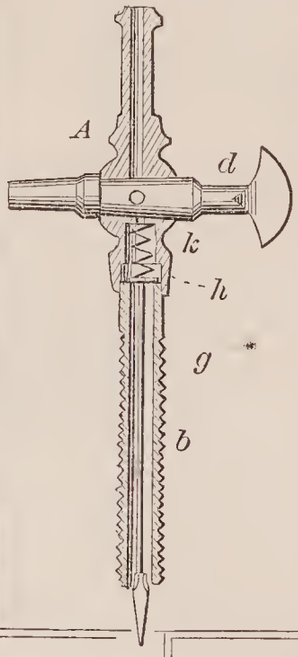




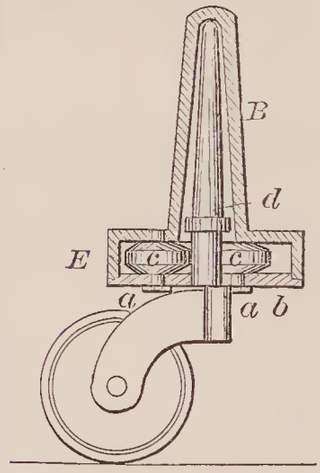
75563—J. Morton—*Cutting Saw Teeth.*



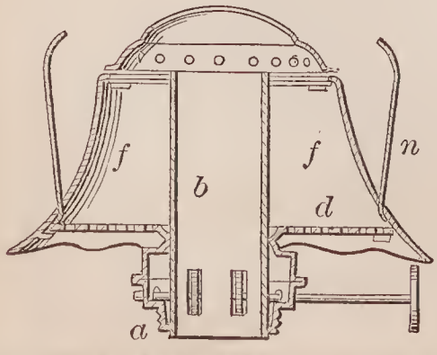
75557—W. I. Luther—*Bottle Faucet.*



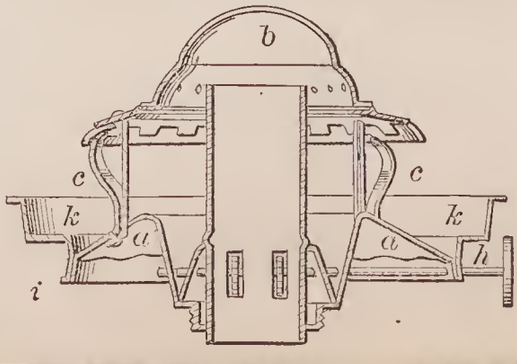
75564—H. Munroe—*Caster.*



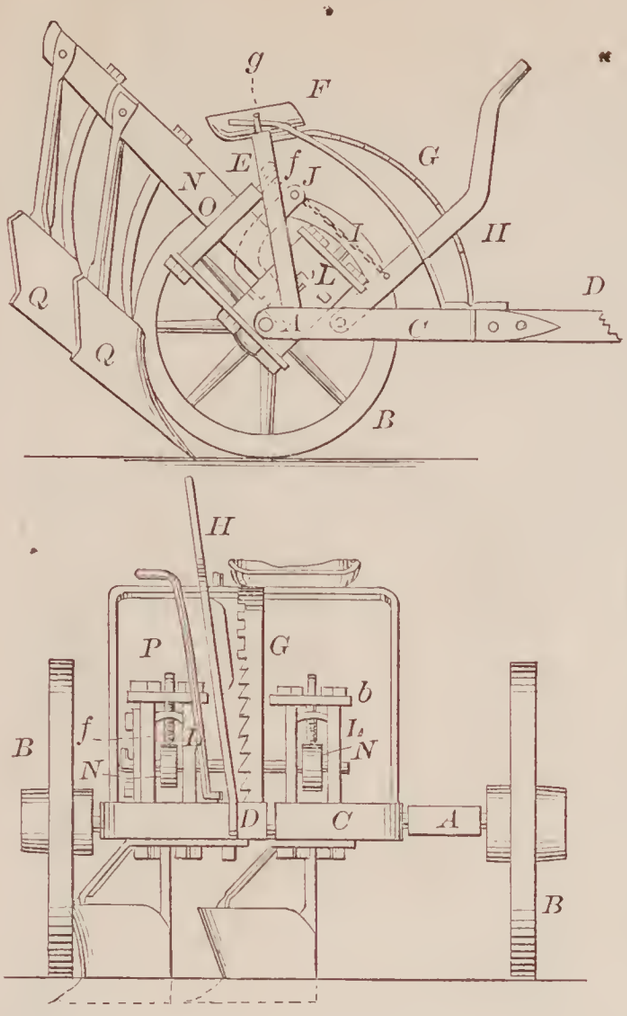
75565—G. Neilson—*Lamp Burner.*



75566—G. Neilson—*Lamp Burner.*



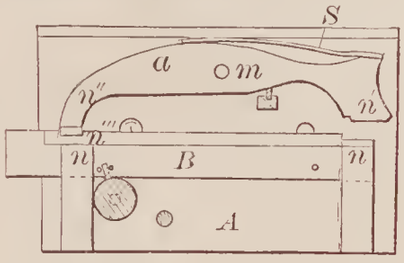
75567—W. Nelson—*Gang Plow.*



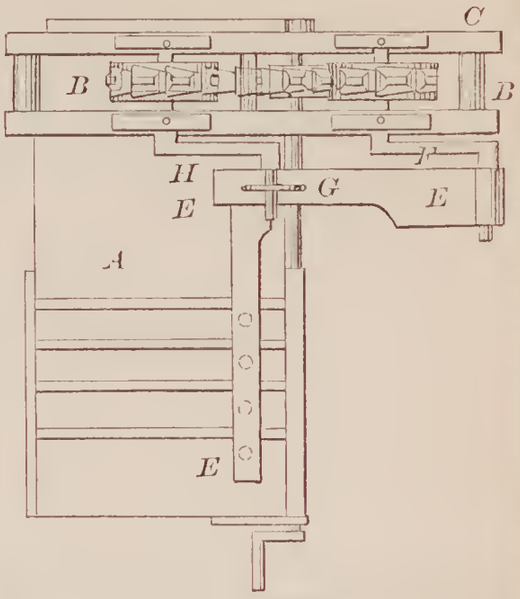
75568—H. B. Nickerson—*File.*

Fig. 1

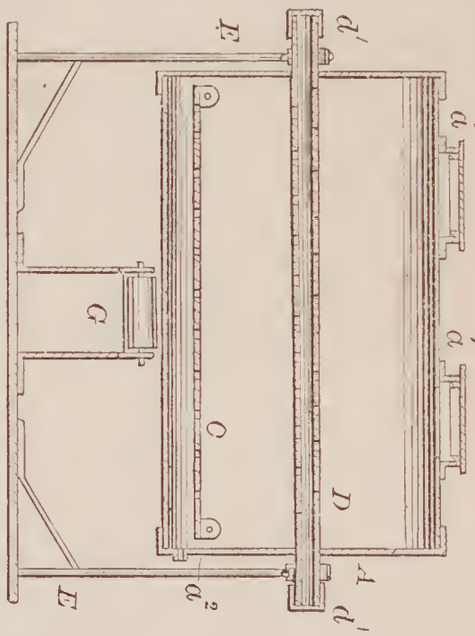
75569—H. Norton—*Door Lock.*



75570—E. Ogden—*Harvester Rake.*

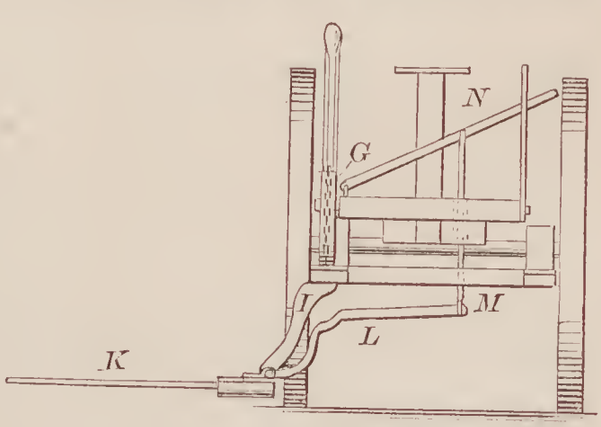


75571—S. J. Patterson—*For Leaching Bark.*

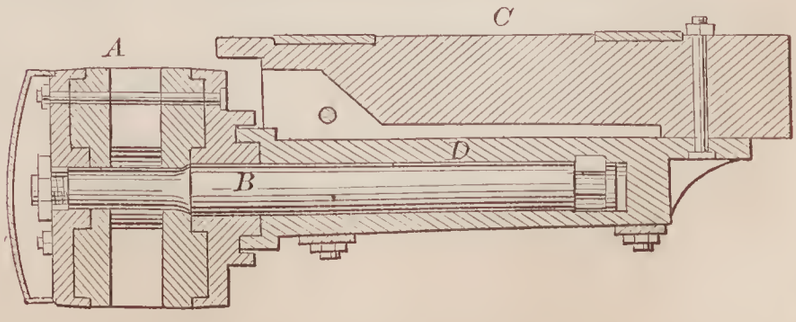


75572—P. Phillips—*Musical Notation.*

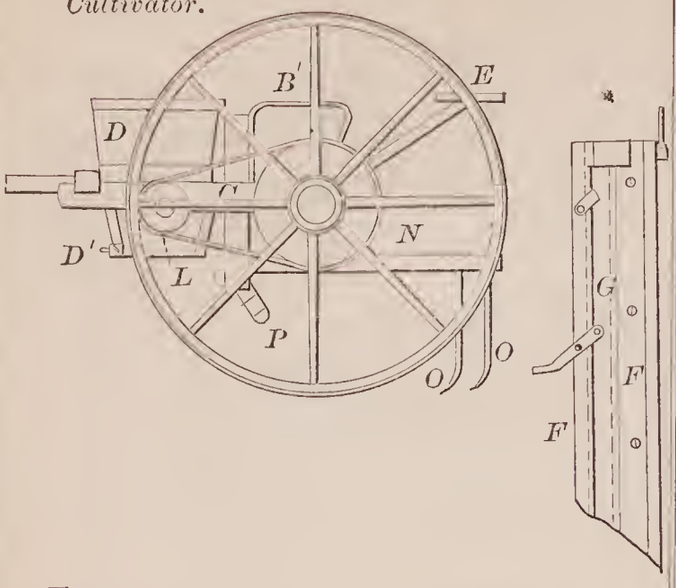
75573—J. W. Pierce—*Mowing Machine.*

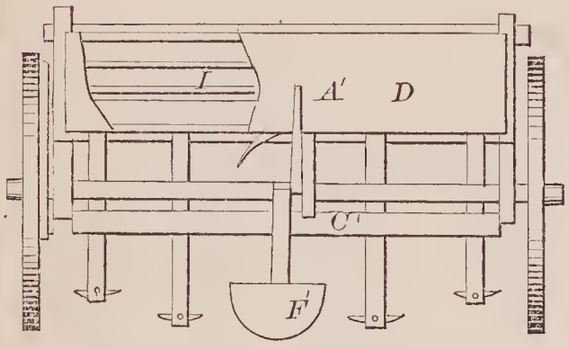


75574—J. W. Pollock—*Wagon Hub, Axle and Box.*

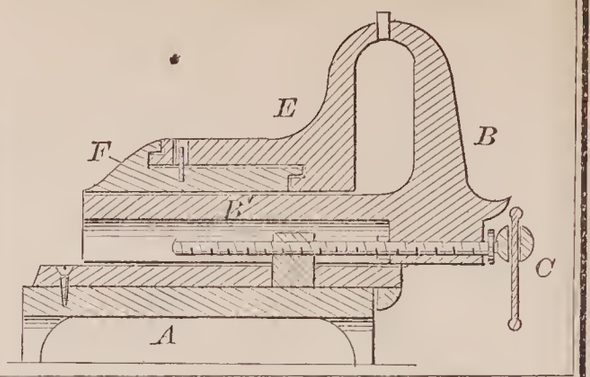


75575—O. M. Pond—*Seeding Machine and Cultivator.*

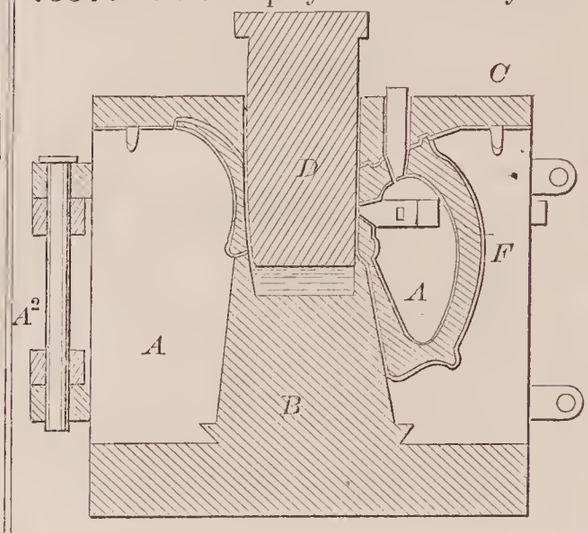




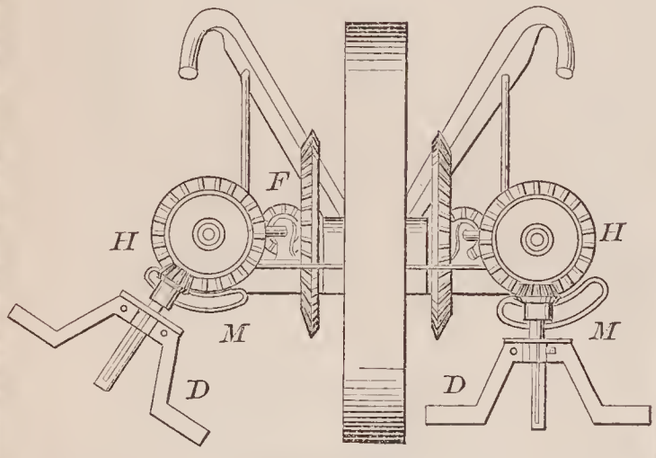
75576—M. Printiss—*Vise.*



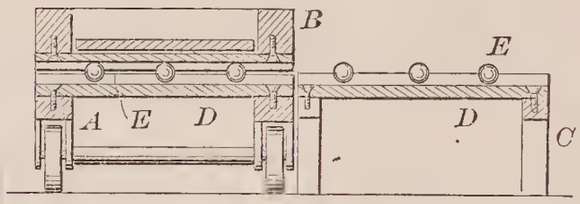
75577—D. C. Ripley—*Glass Manufacture.*



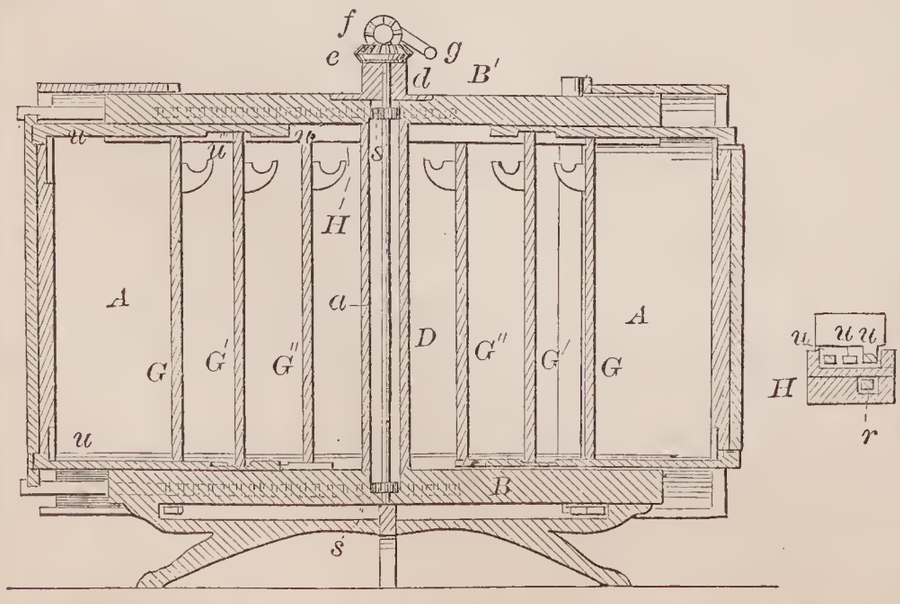
75578—E. B. Roberts—*Cultivator.*



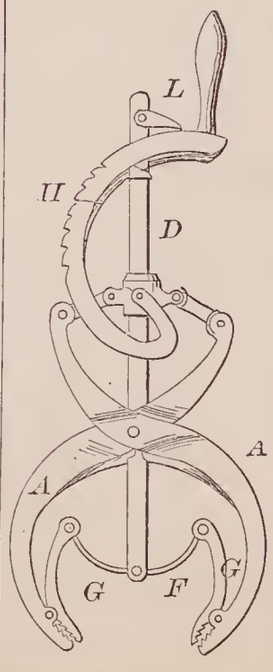
75581—L. Savage—*Railroad Freight Car.*



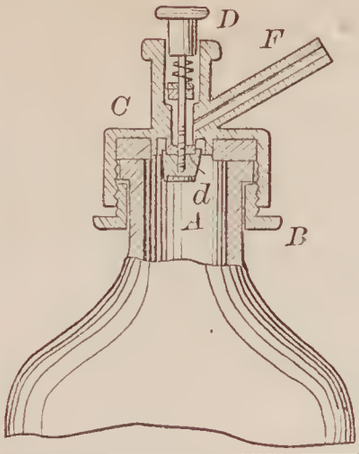
75579—J. G. Roux—*Extension Wardrobe.*



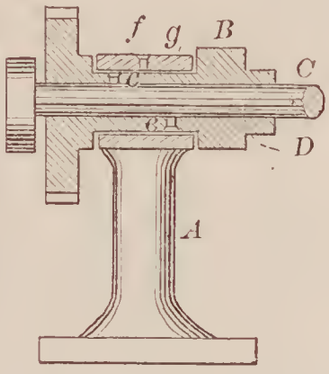
75580—J. G. Rust—*For Lasting Boots and Shoes.*



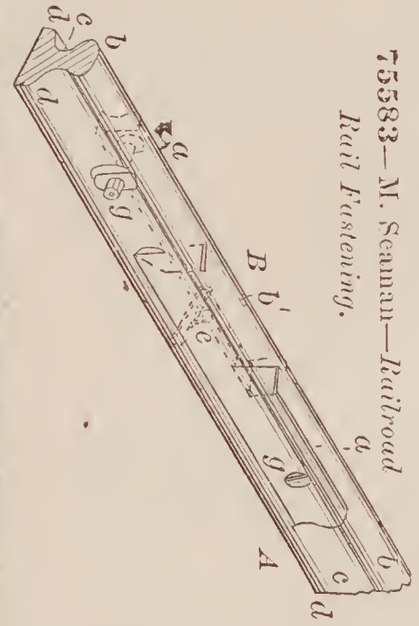
75582—A. D. Schnaekenberg—*Vessel for Mineral Water.*



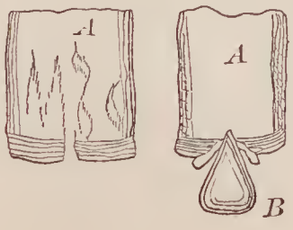
75584—M. Senior—*Lubricating Device.*



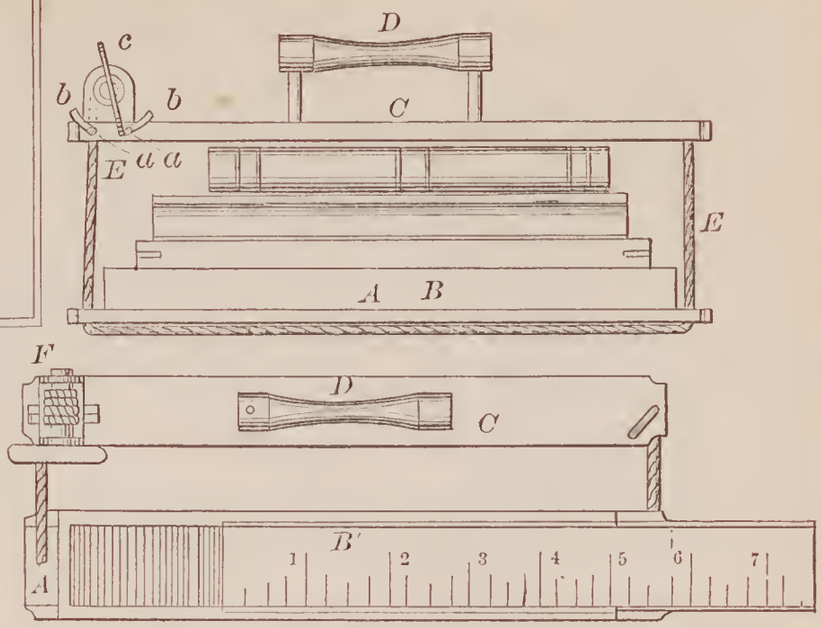
75583—M. Seaman—*Railroad Rail Fastening.*



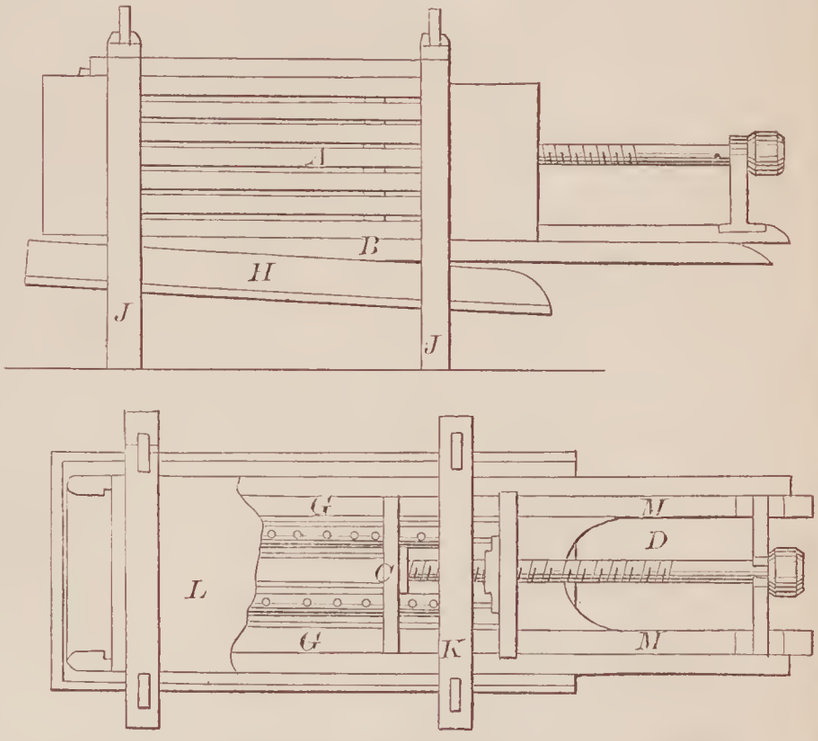
75586—H. H. Seys—*Surgical Suppository.*



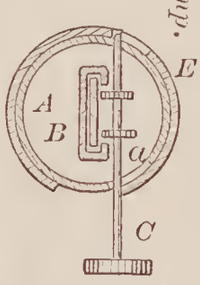
75588—C. W. Sherwood—*Portable Book Clamp.*



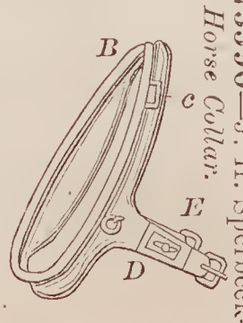
75589—A. W. Shidler—*Cider Press.*



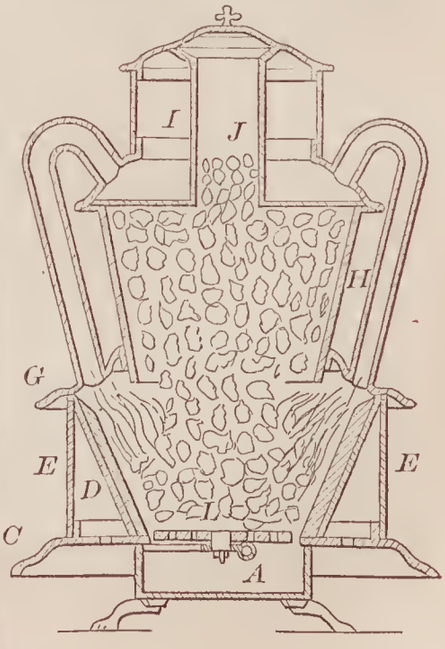
75587—Shea & Gillman—*Lamp.*



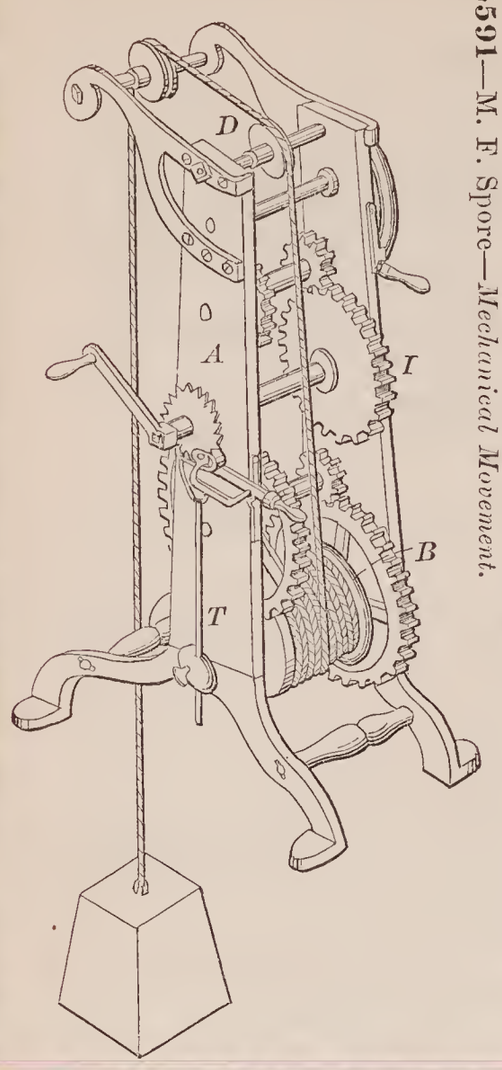
75590—J. H. Sperbeck—*Horse Collar.*



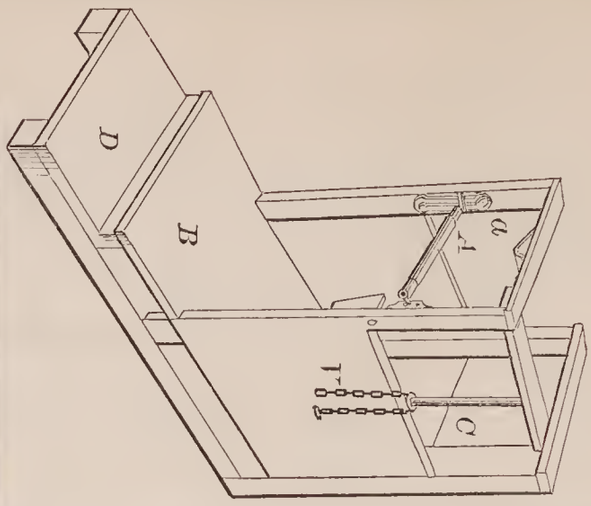
75585—S. B. Sexton—*Stove.*



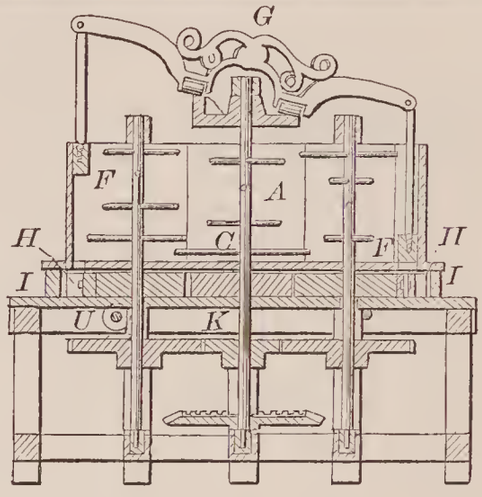
75591—M. F. Spore—*Mechanical Movement.*

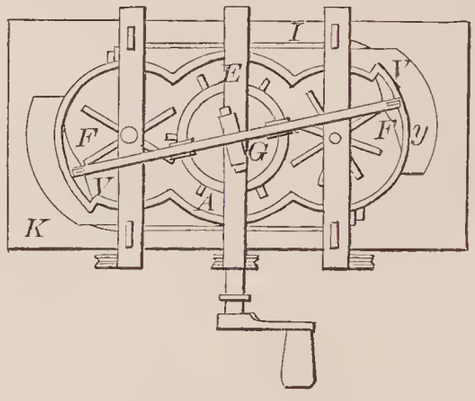


75595—S. D. Stone—*Cattle Stall.*

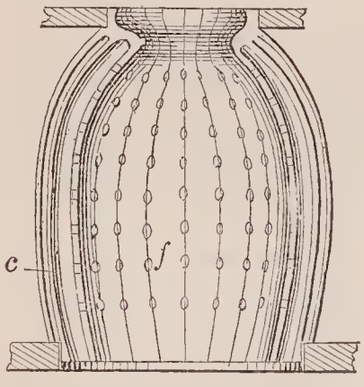


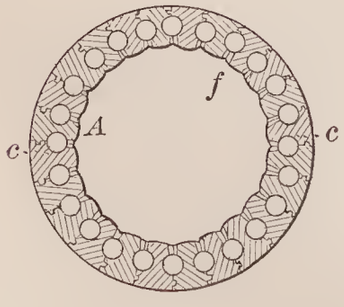
75596—J. Taggart—*Brick Machine.*



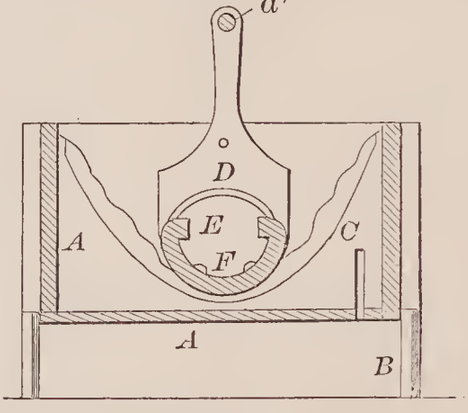


75594—D. L. Stiles—*Stove Fire-Pot.*

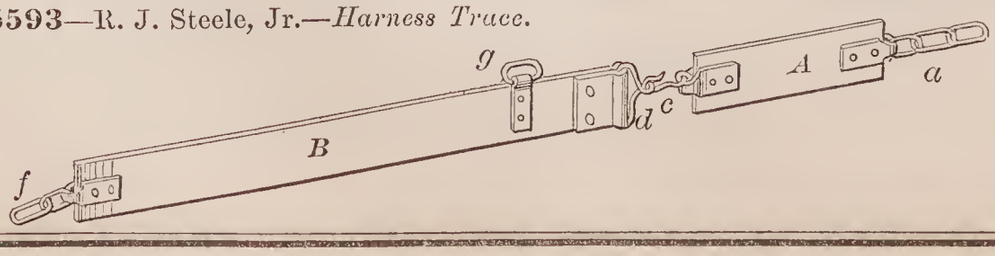




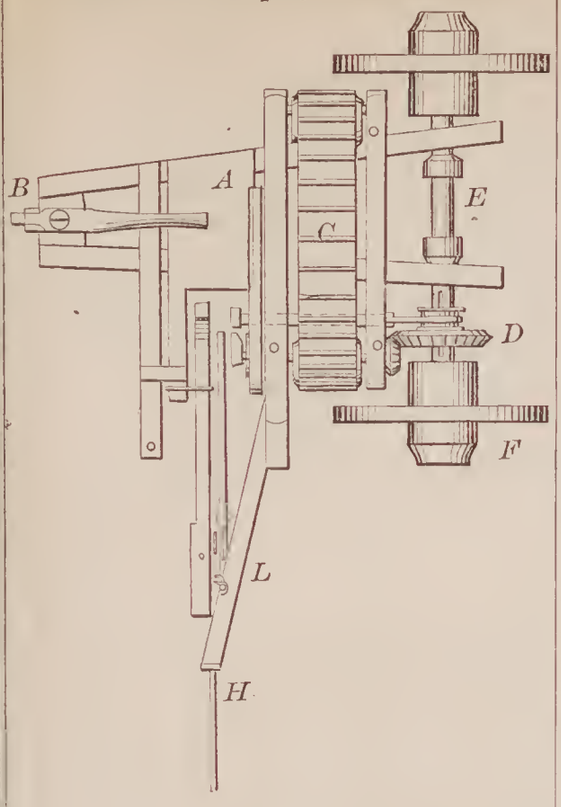
75592—E. Stair—*Washing Machine.*



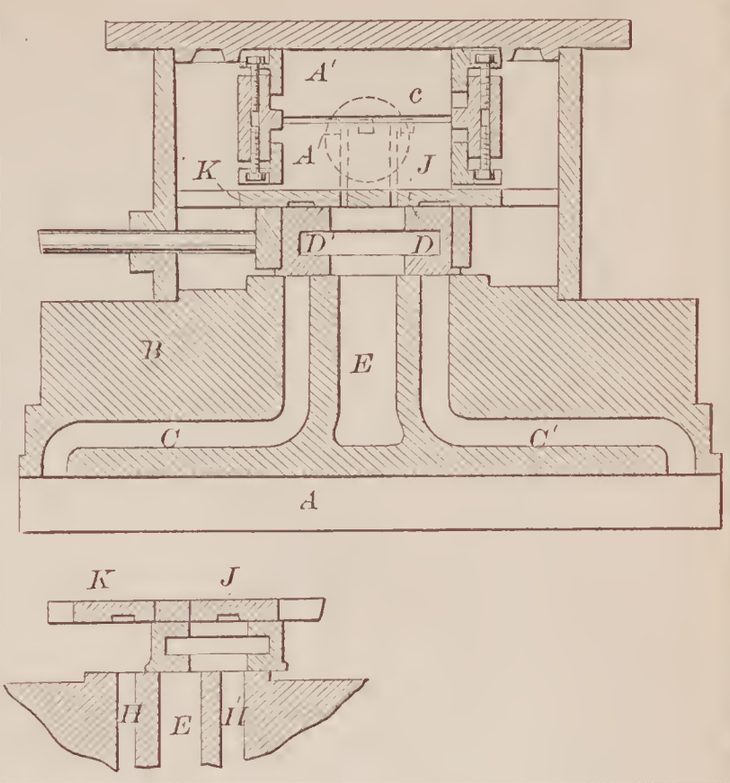
75593—R. J. Steele, Jr.—*Harness Trace.*



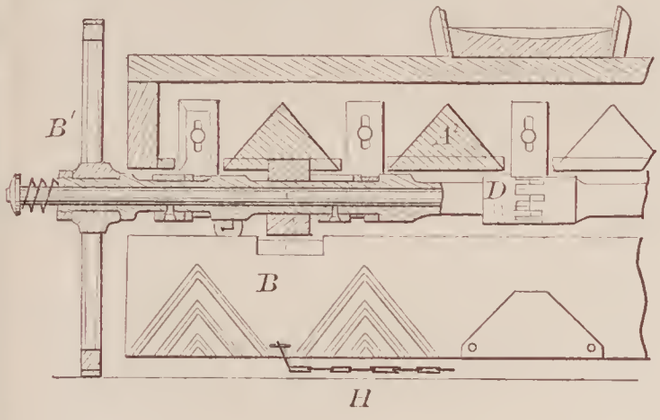
75597—H. Tarpley—*Horse Power.*

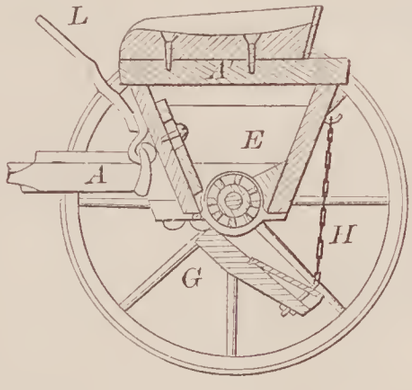


75598—W. Thilmany—*Steam Engine Valve.*

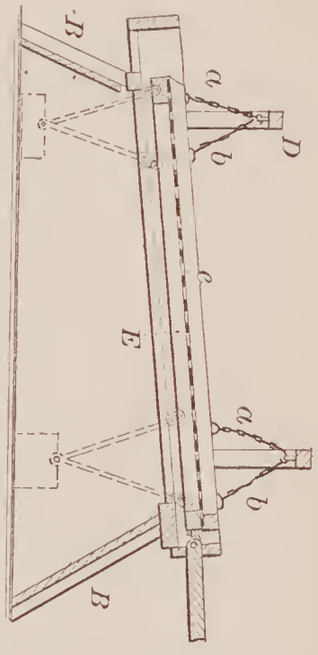


75601—F. W. Tilton—*Seed Sower.*

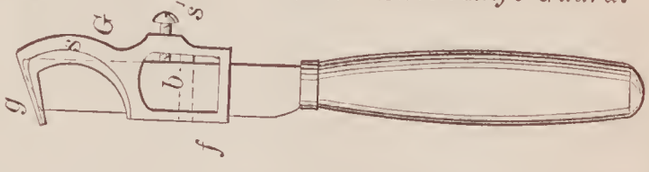




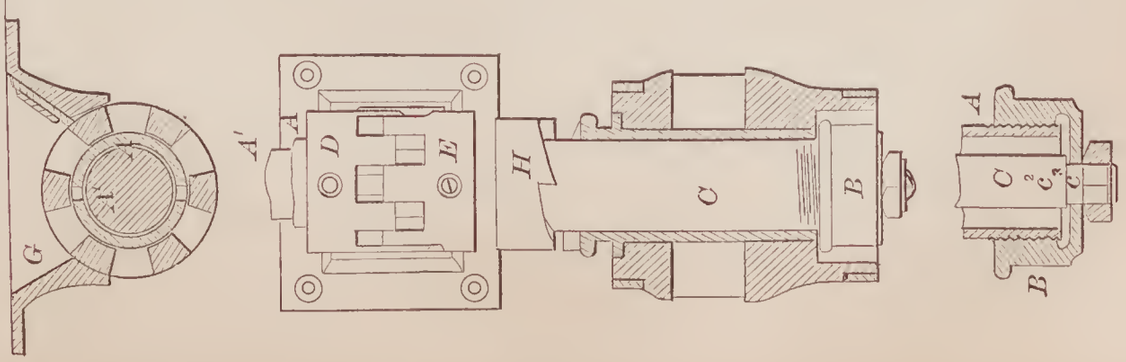
75599—S. Thompson—*Hanging Sieves and Screens.*



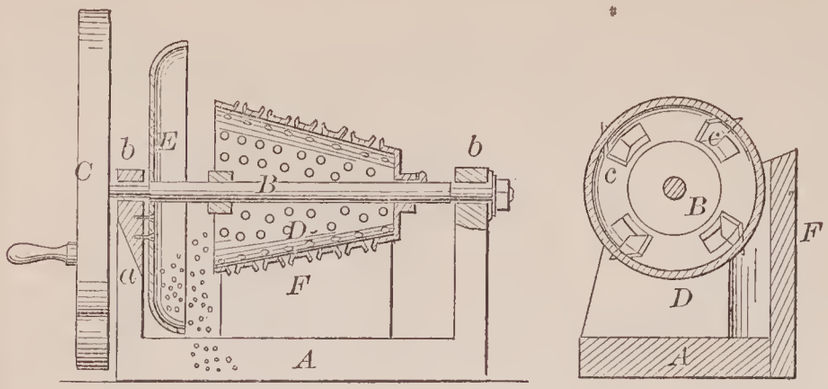
75602—G. G. Townsend—*Shoe Knife Guard.*



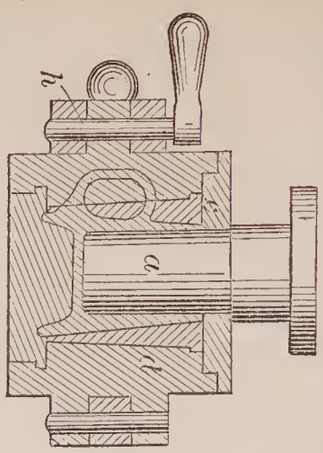
75600—F. W. Tilton—*Seed Planter.*



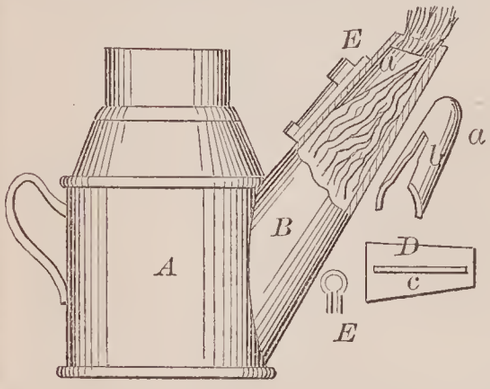
75605—C. Vignal—*Vegetable Cutter.*



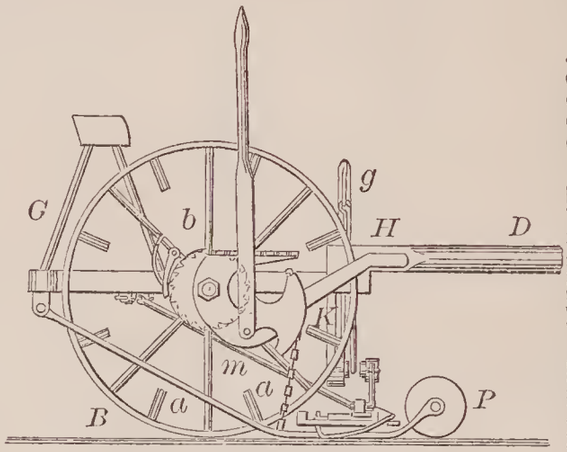
75604—D. Turpie—*Glass Mould.*



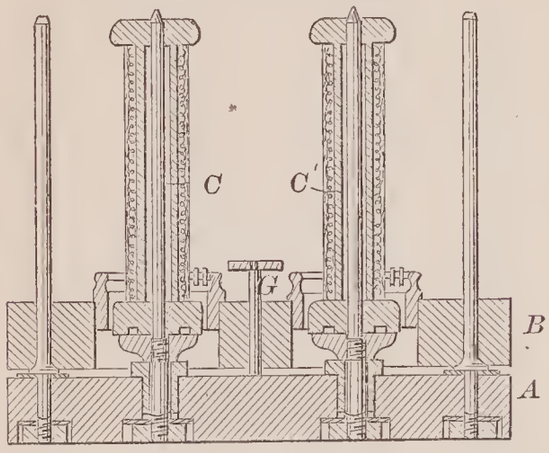
75603—G. W. Trimble—*Miners' Lamp.*

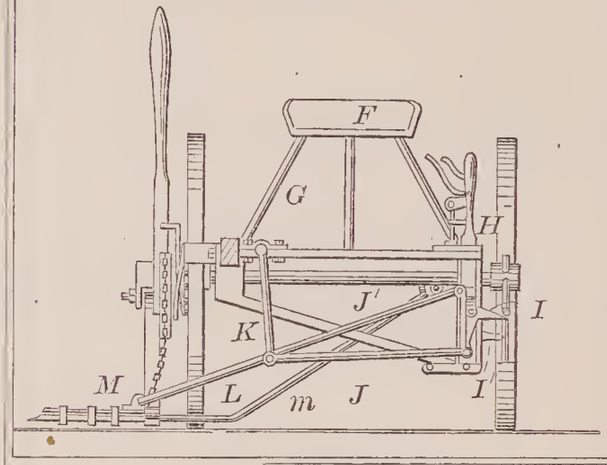


75606—L. Wallace—*Harvester.*

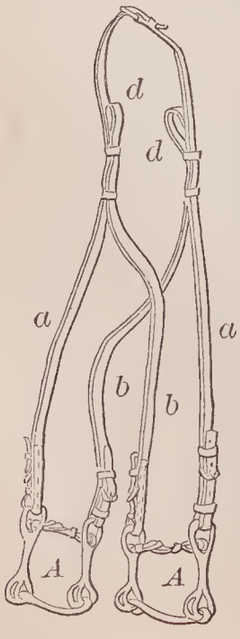


75609—J. W. Wattles—*Clearer for Ring Spinning Machines.*



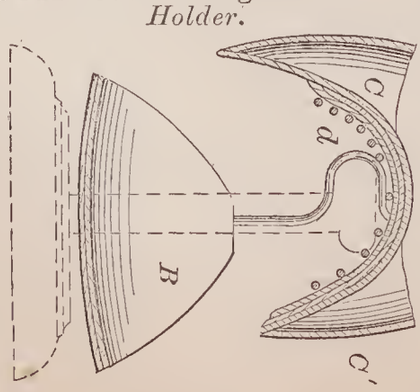


75614—L. D. Woodmansee—*Driving Lines.*

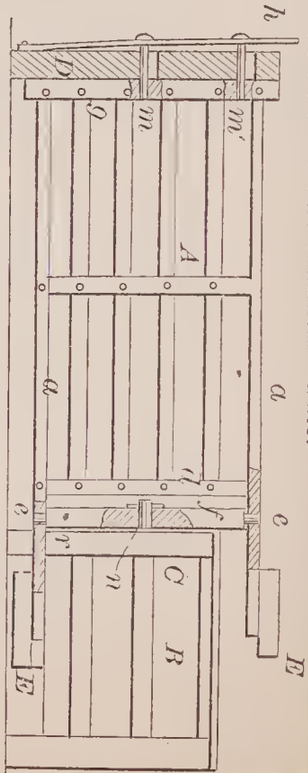


75610—J. W. Wattles—*Ring and Traveler Spinning Machine.*

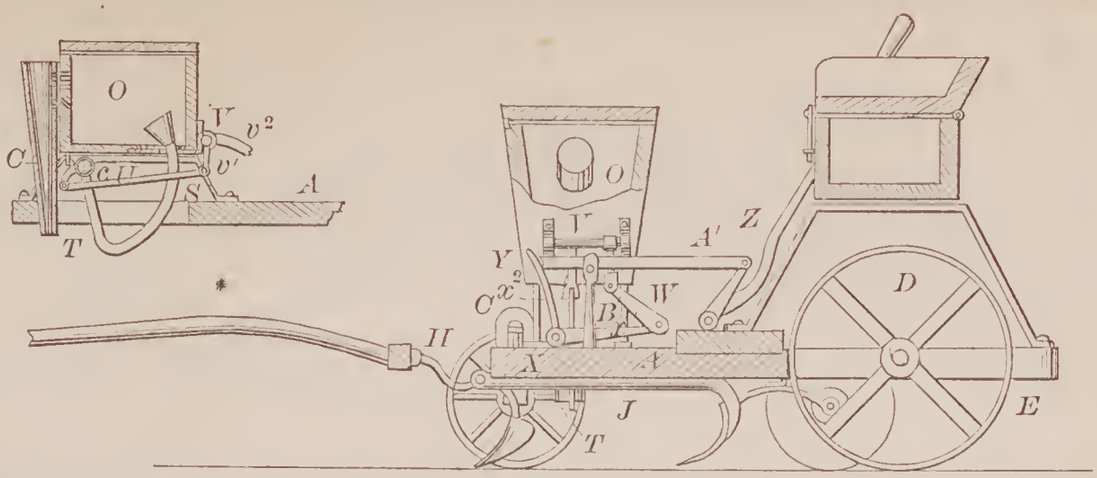
75611—J. D. Westgate—*Sad Iron Holder.*



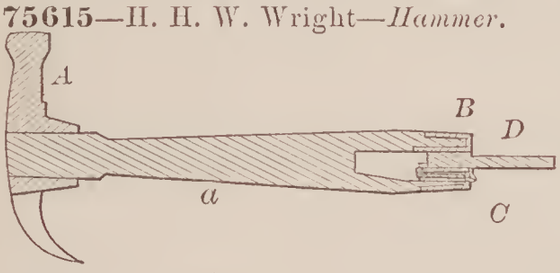
75607—W. S. Wandell—*Gate.*



75613—S. C. Wilder—*Seed Planter.*

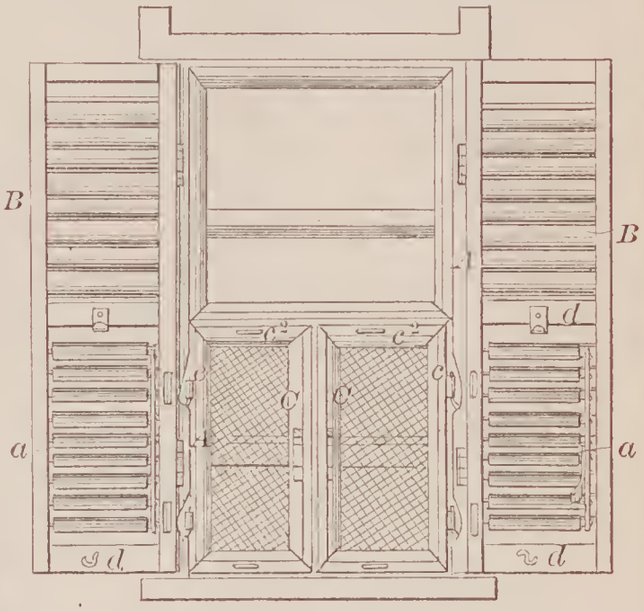


75615—H. H. W. Wright—*Hammer.*



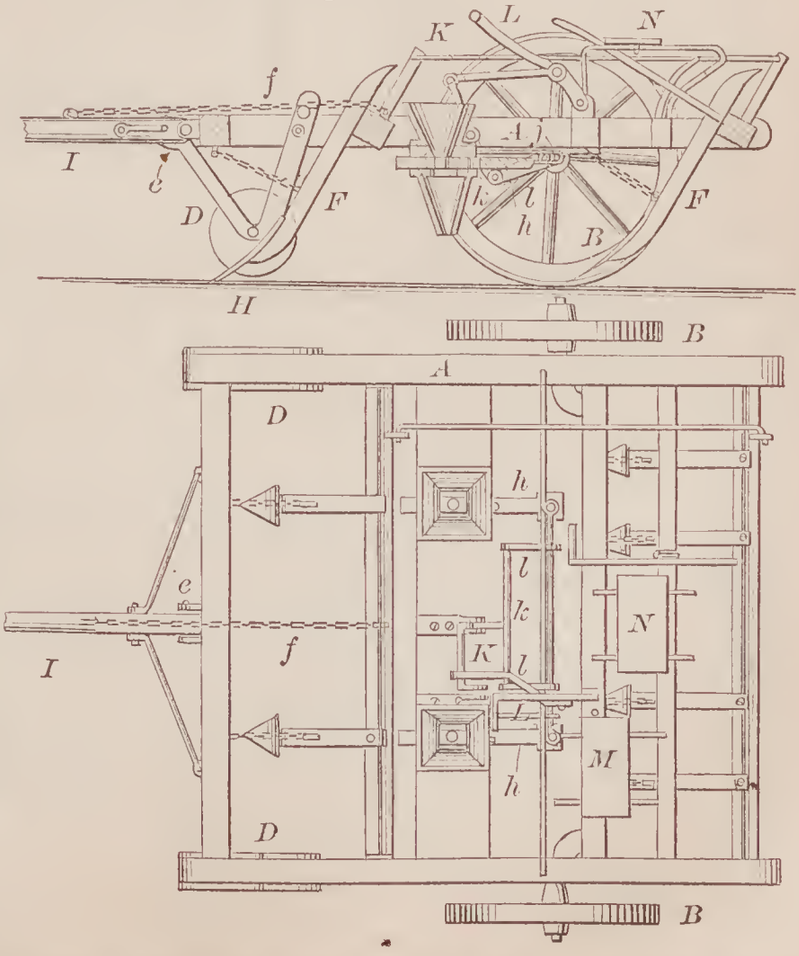
75617—L. B. Yale—*Chair Rocker.*

75612—J. R. Wharry—*Window Netting.*

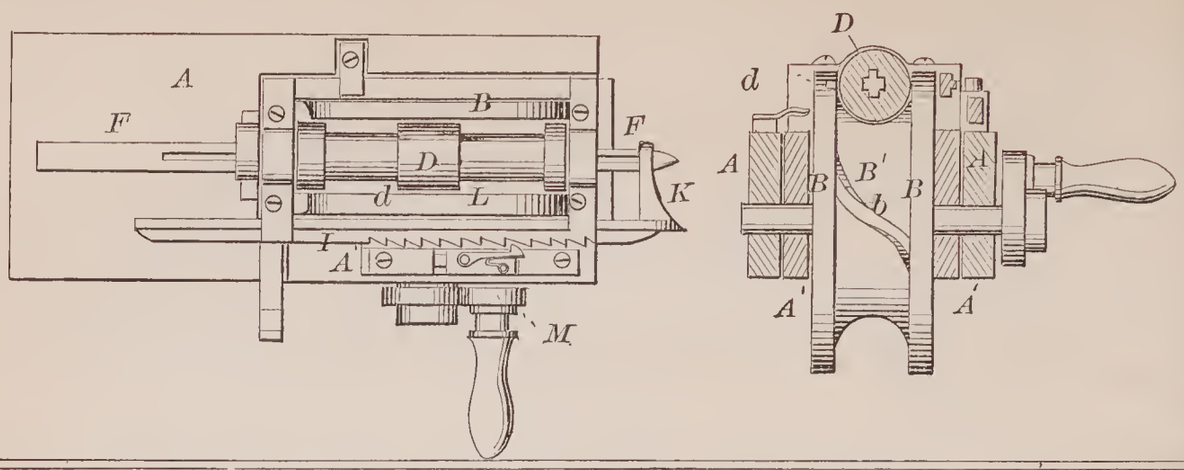


75619—W. G. Blymyer—*Printer's Galley.*

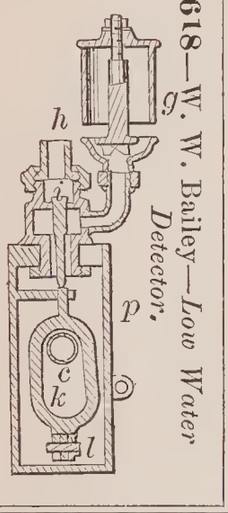
75616—R. B. Wright—*Seed Planter.*



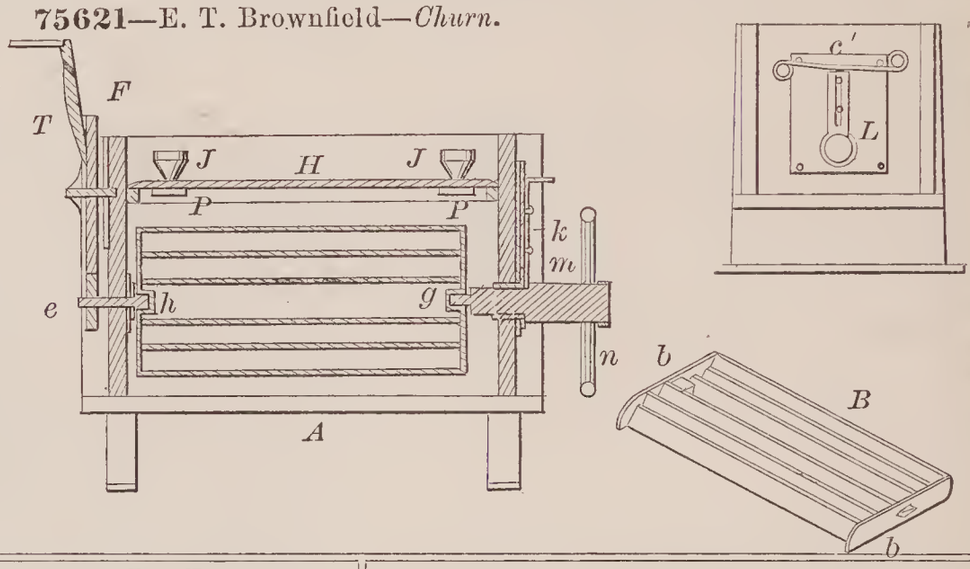
75620—F. E. Boyd—*Feeding Nail Plates.*



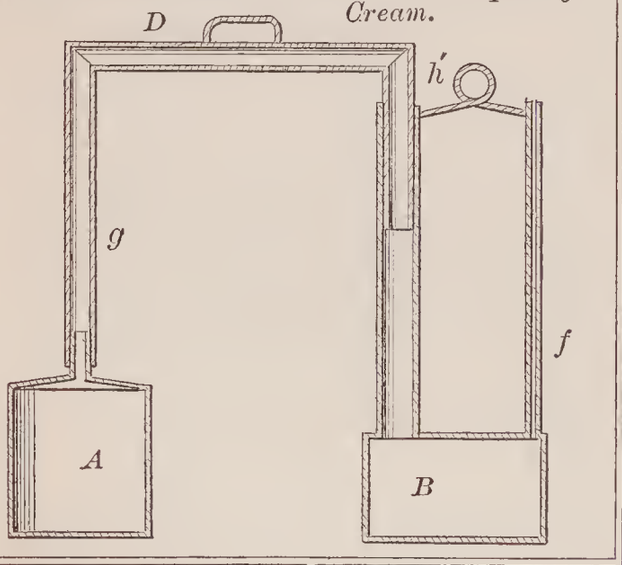
75618—W. W. Bailey—*Low Water Detector.*



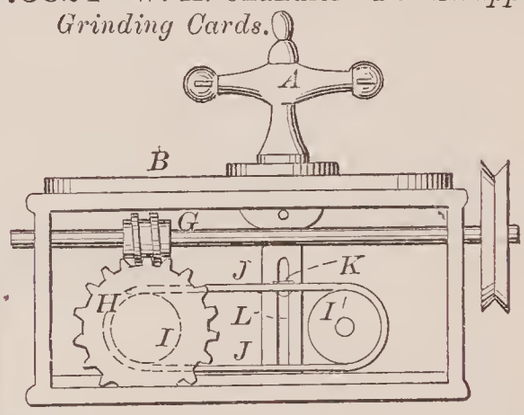
75621—E. T. Brownfield—*Churn.*



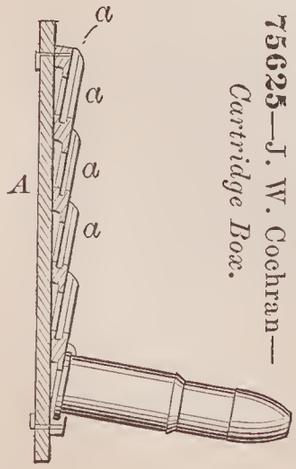
75622—E. T. Brownfield—*For Tempering Cream.*



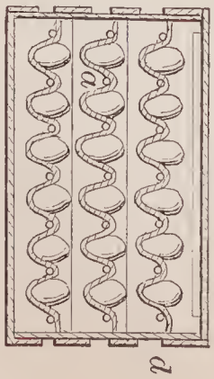
75624—W. H. Chandler—*For Strapping and Grinding Cards.*



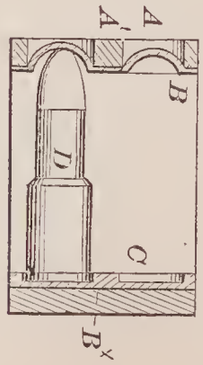
75625—J. W. Cochran—*Cartridge Box.*



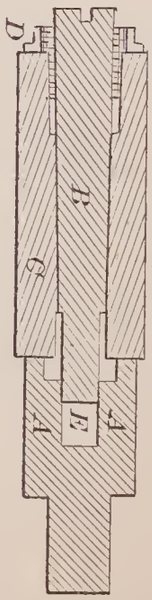
75623—A. H. Bryant—*Egg Carrier.*



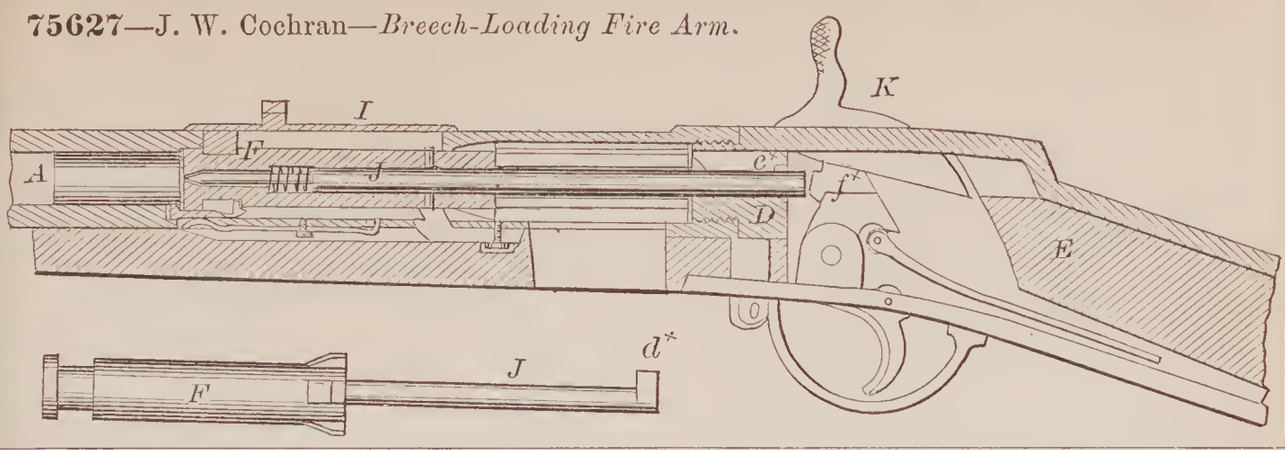
75626—J. W. Cochran—*Cartridge Box.*



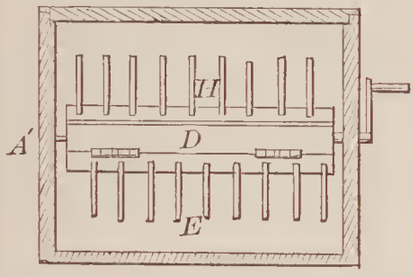
75628—A. Conklin—*Reaming Tool.*



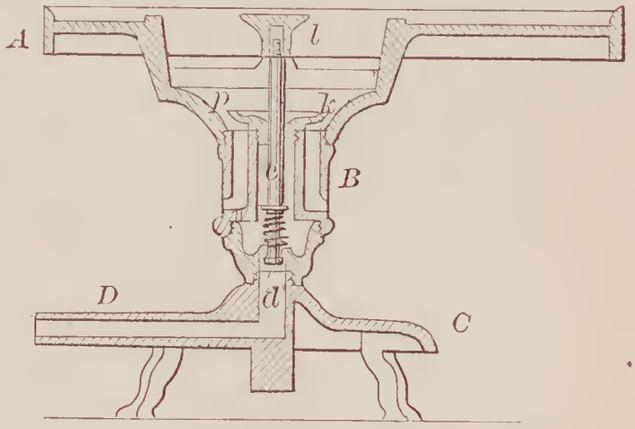
75627—J. W. Cochran—*Breech-Loading Fire Arm.*



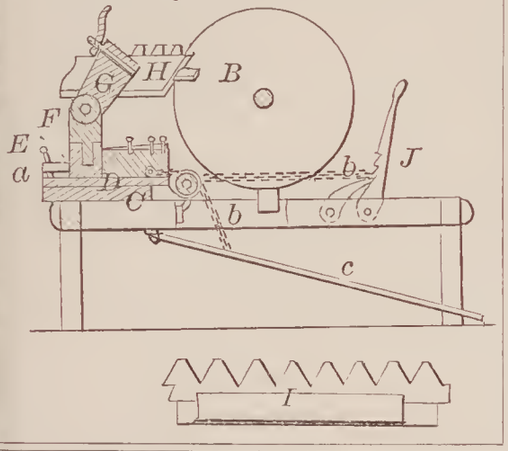
75629—J. Cooper—*Washing Machine.*



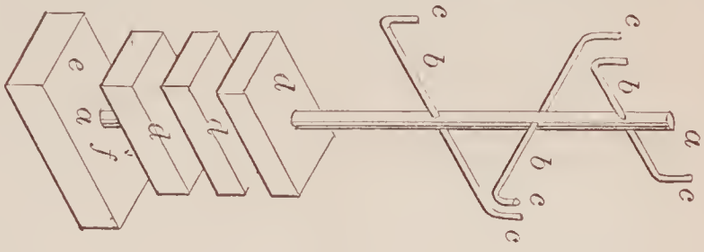
75631—A. Hallowell—*For Heating Flat Irons.*



75633—J. Y. Hoagland—*For Grinding Harvester Knives.*



75636—J. Lamont—*Fence and Trellis Post.*



75632—A. Harroun, Jr.—*Harness.*

Fig. 1

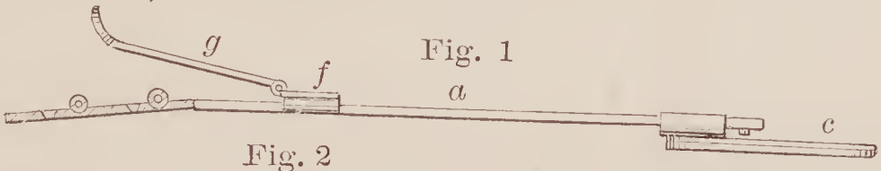
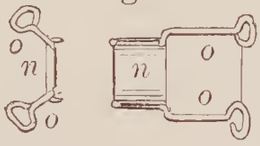
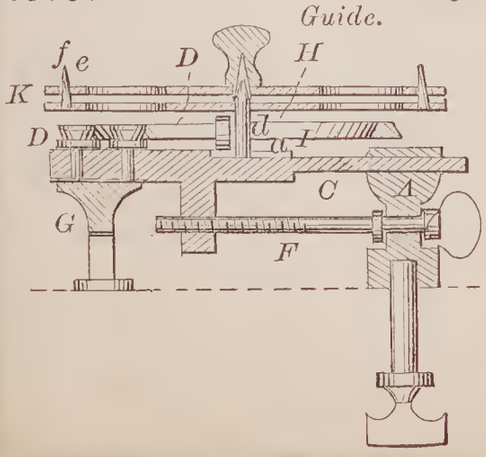


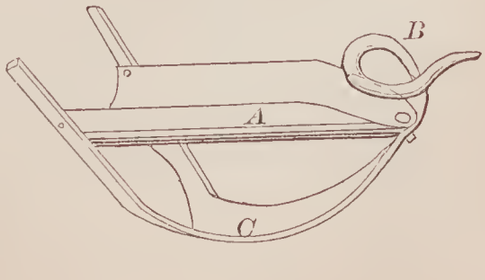
Fig. 2



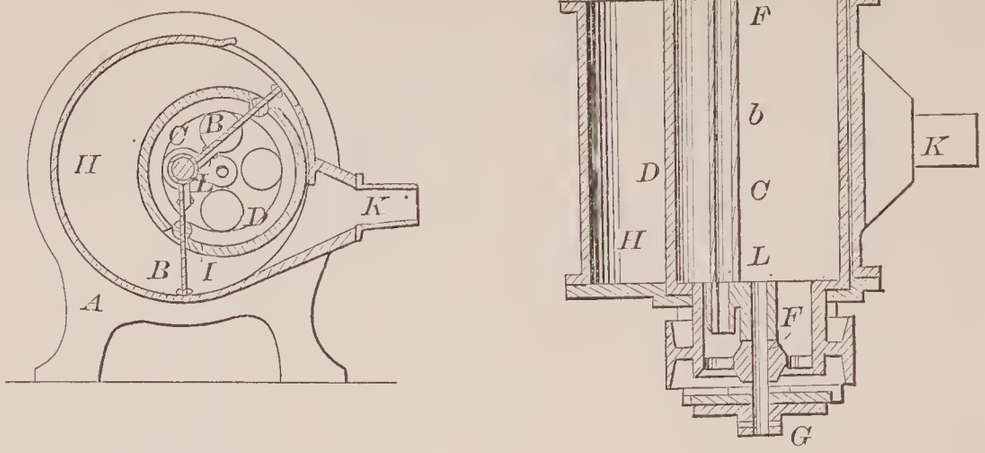
75637—C. H. Lockwood—*Sewing Machine Guide.*



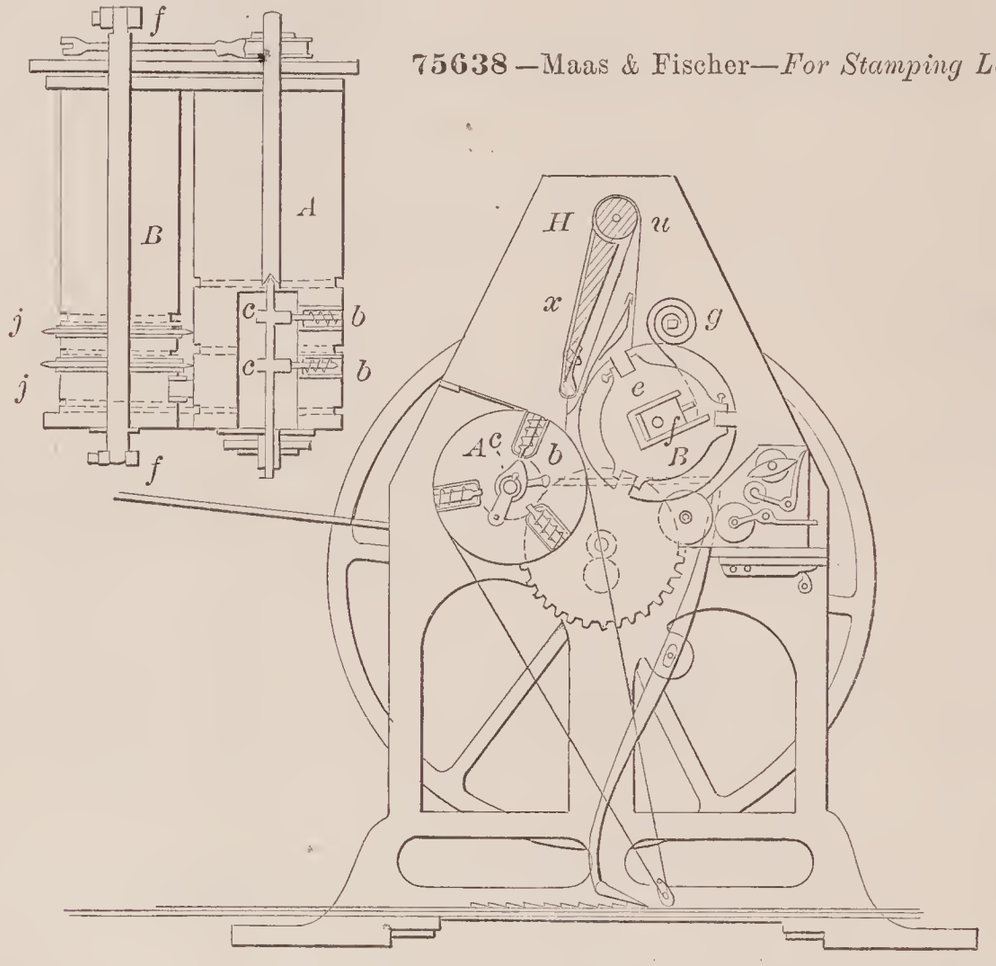
75630—H. P. Curtis—*Lifting Hook Guard for Stoves.*



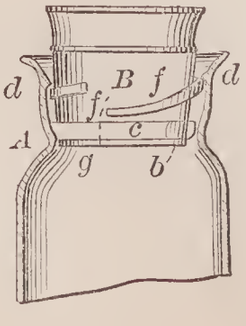
75635—C. W. Isbell—*Rotary Blower.*



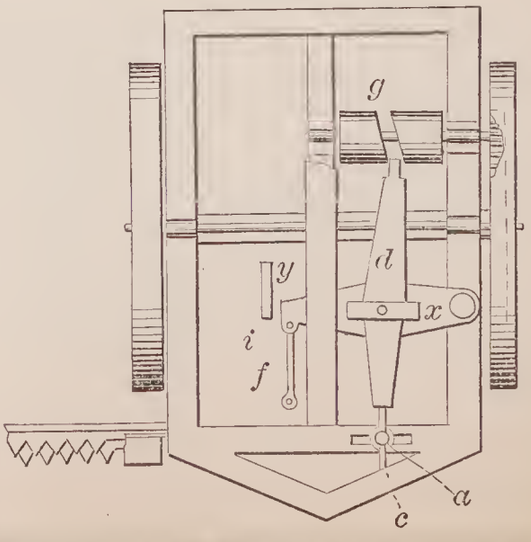
75638—Maas & Fischer—*For Stamping Letters.*



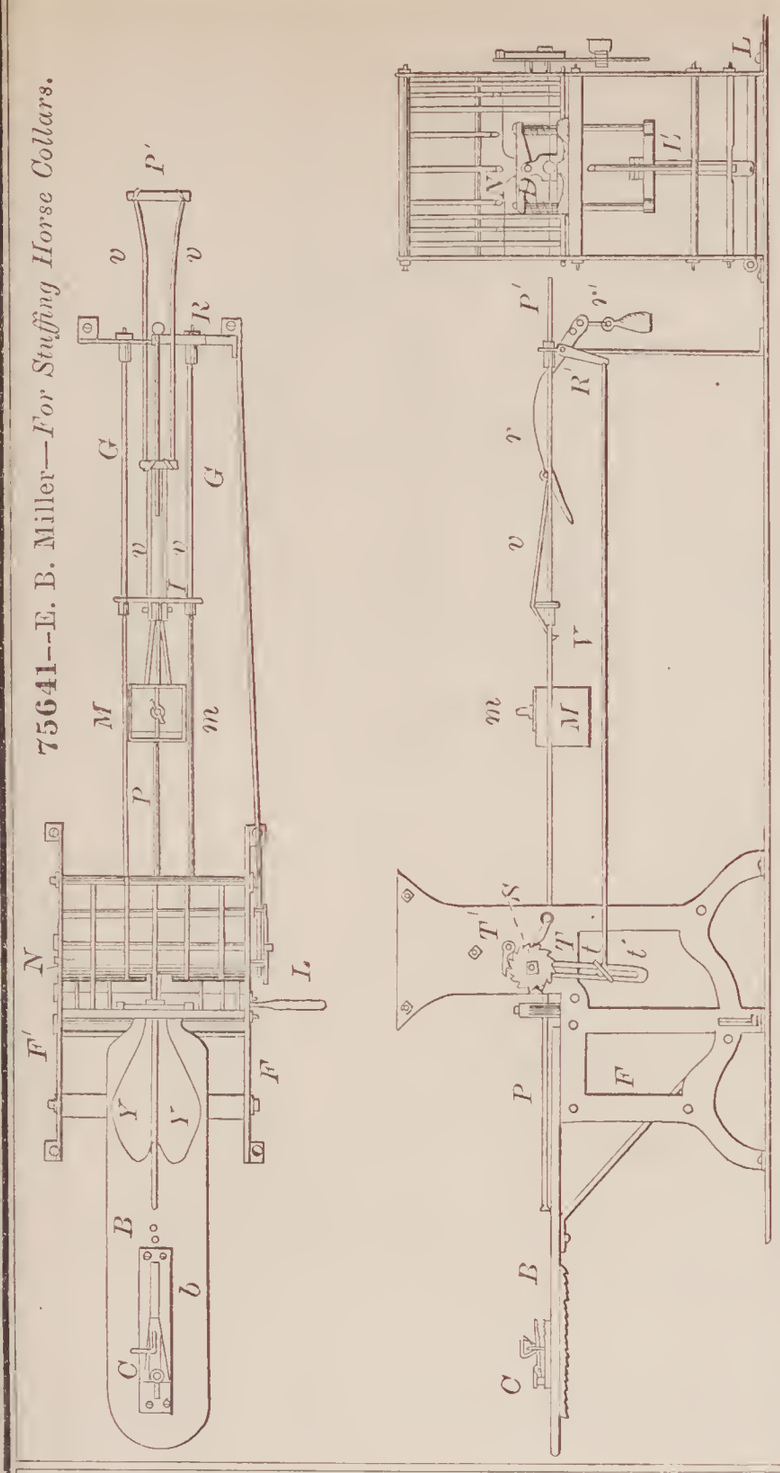
75639—A. D. McMaster—*Fruit Jar.*



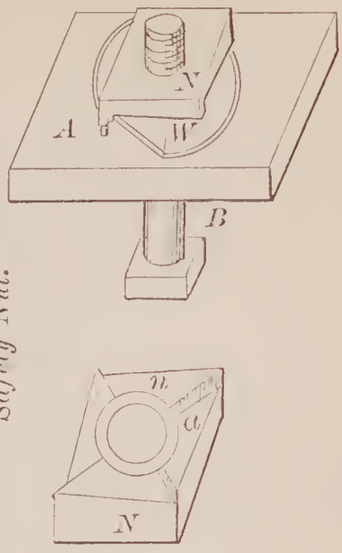
75640—E. W. Merrill—*Harvester.*



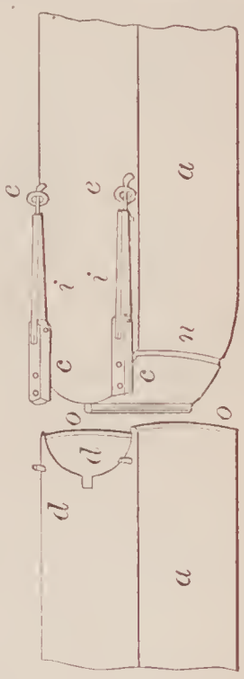
75641—E. B. Miller—*For Stuffing Horse Collars.*



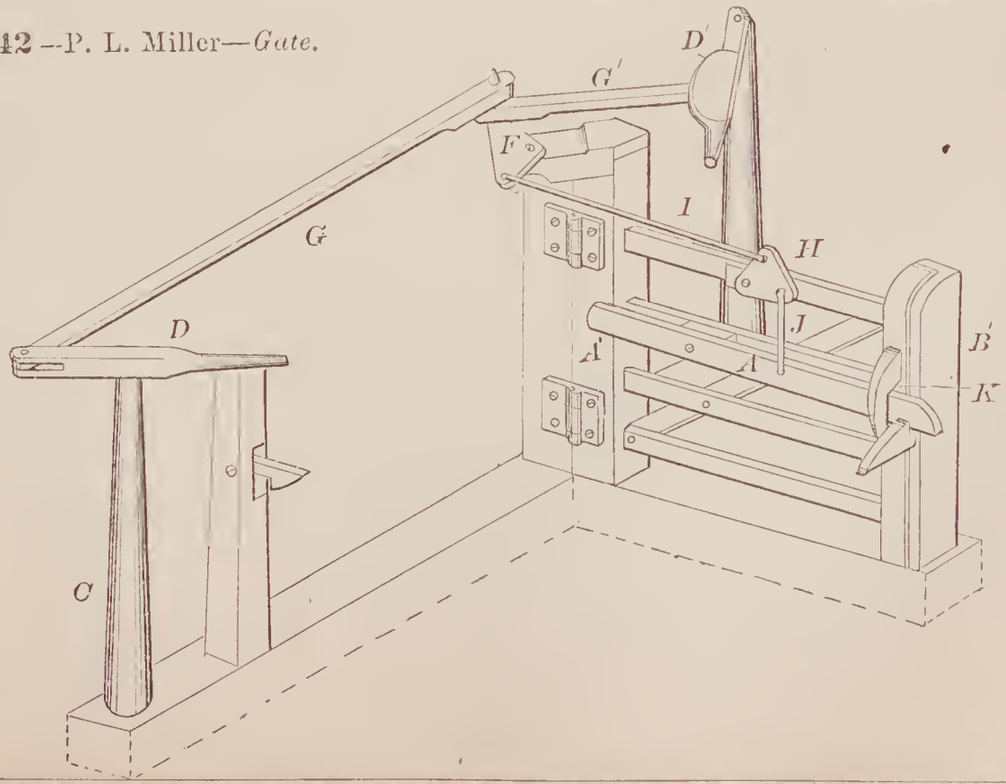
75643—A. V. B. Orr—*Spring Washer and Safety Nut.*



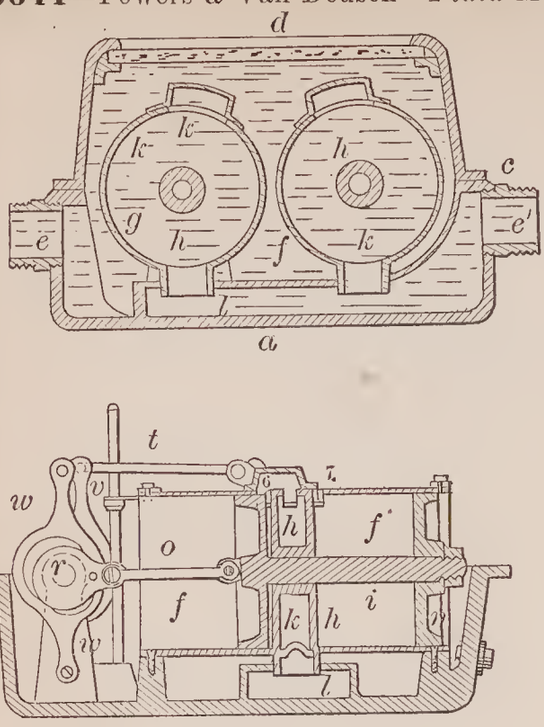
75645—Raymond & Hanley—*Coupling for Sectional Vessels.*



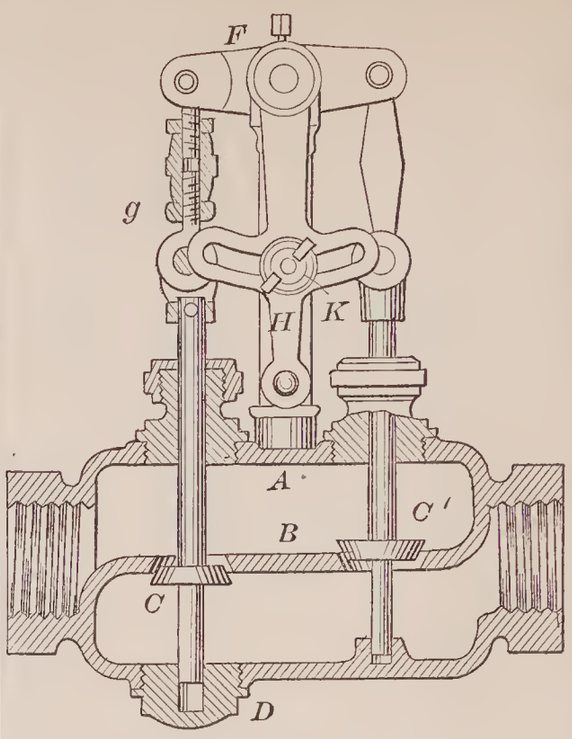
75642—P. L. Miller—*Gate.*



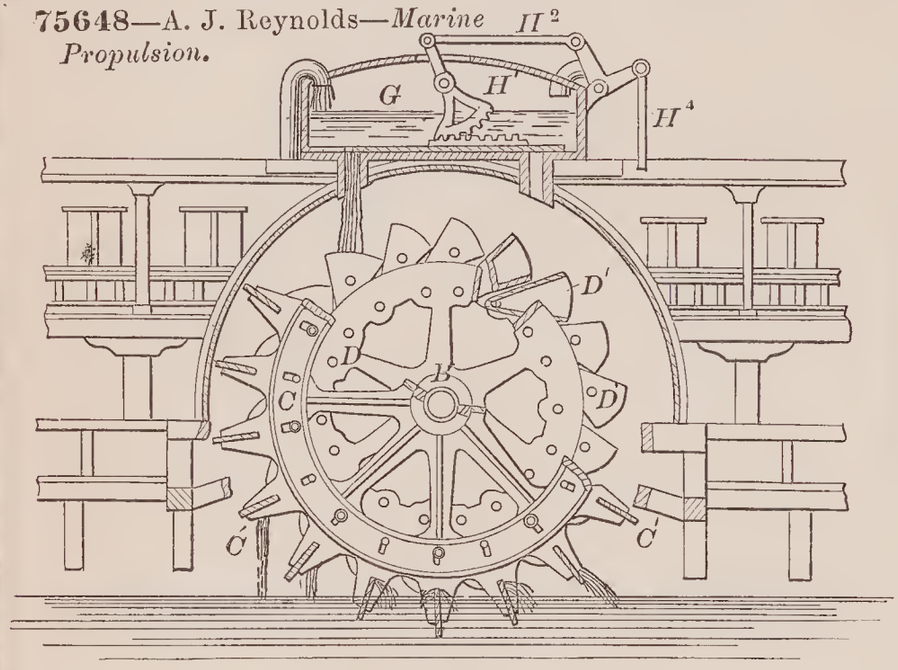
75644—Powers & Van Deusen—*Fluid Meter.*



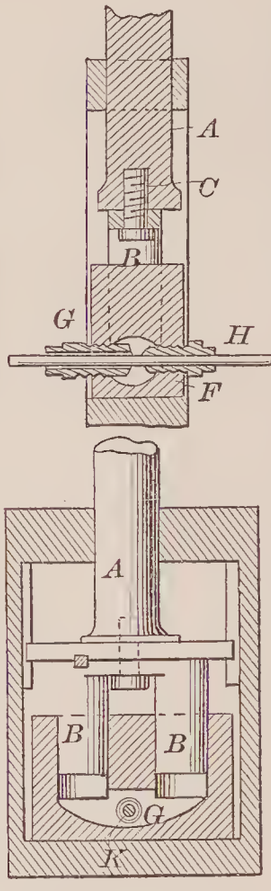
75646—E. B. Requa—*Balance Valve.*



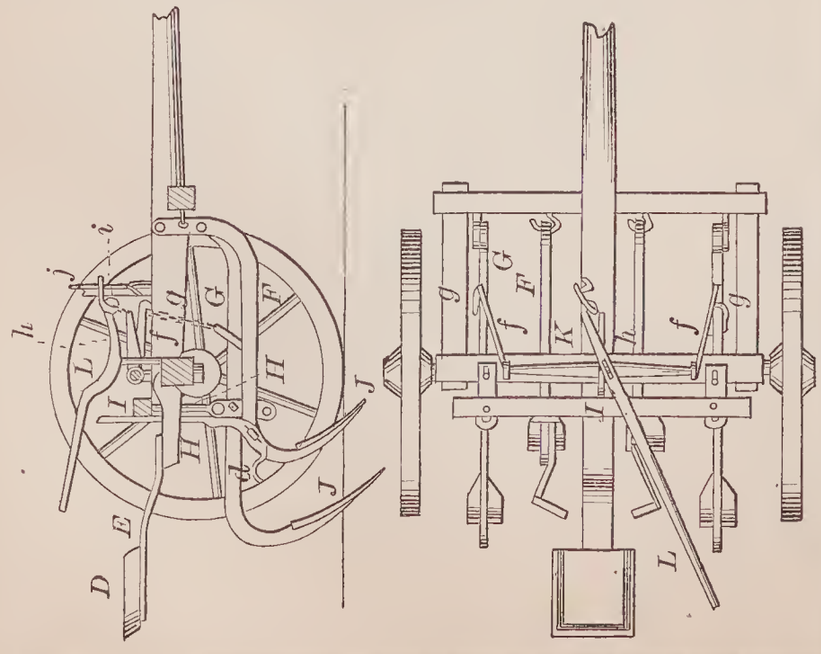
75648—A. J. Reynolds—*Marine Propulsion.*



75649—J. Robertson—*Manufacture of Rubber Tubes.*

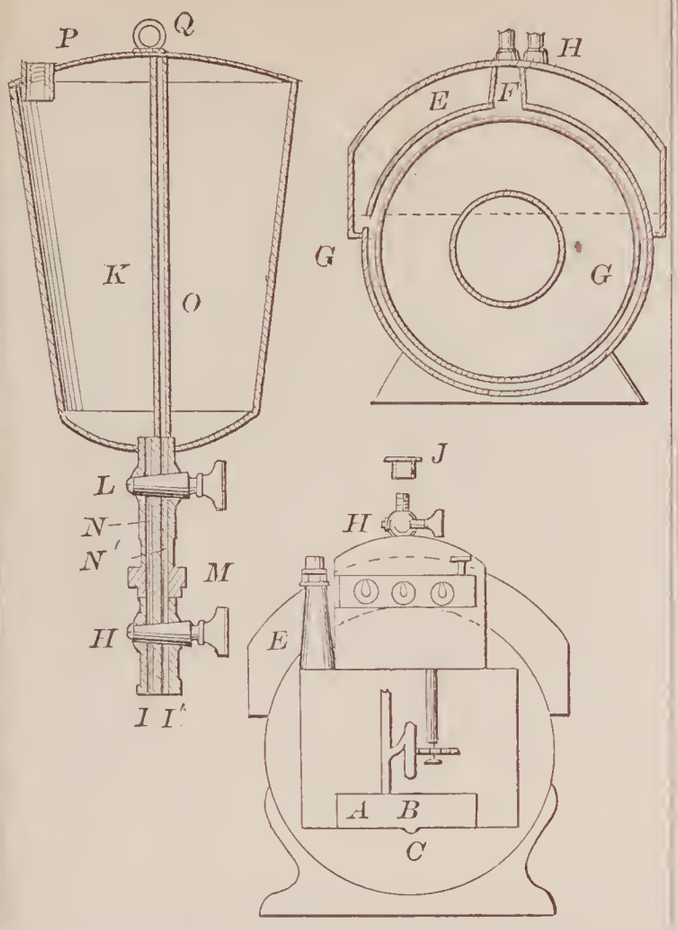


75647—J. H. Reynerson—*Cultivator.*

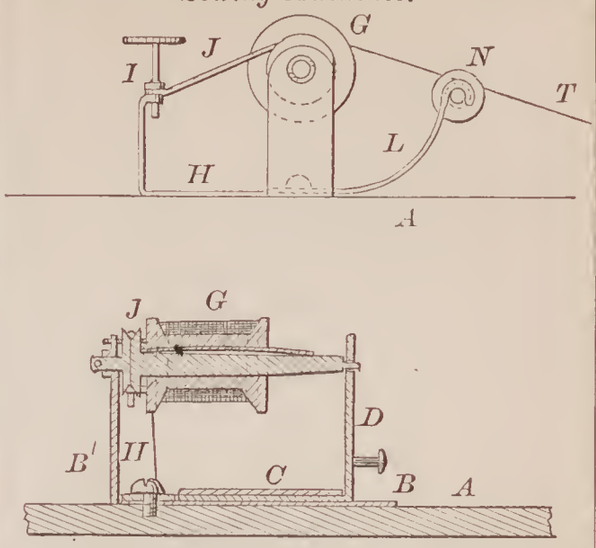


75650—M. Rosenthal—*Button Fastening.*

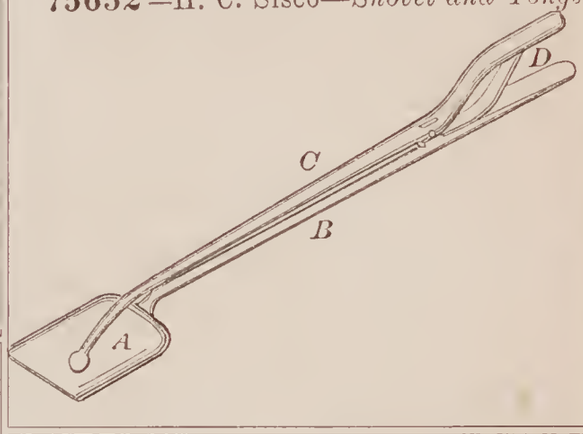
75653—A. W. Smith—*Gas Meter.*



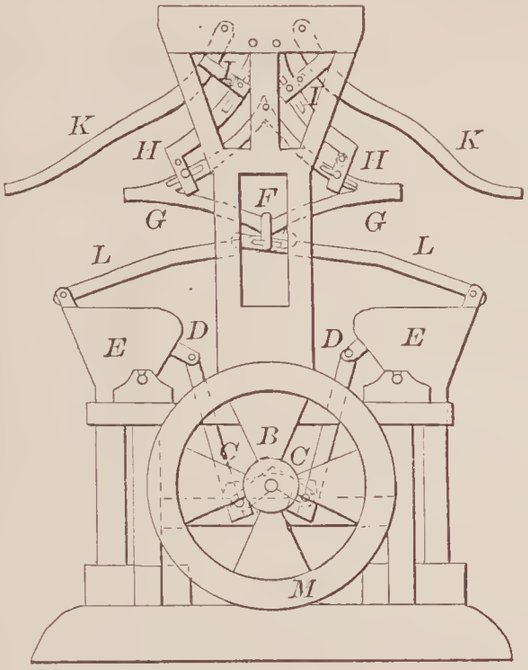
75654—S. Snyder—*Thread Tension for Sewing Machines.*



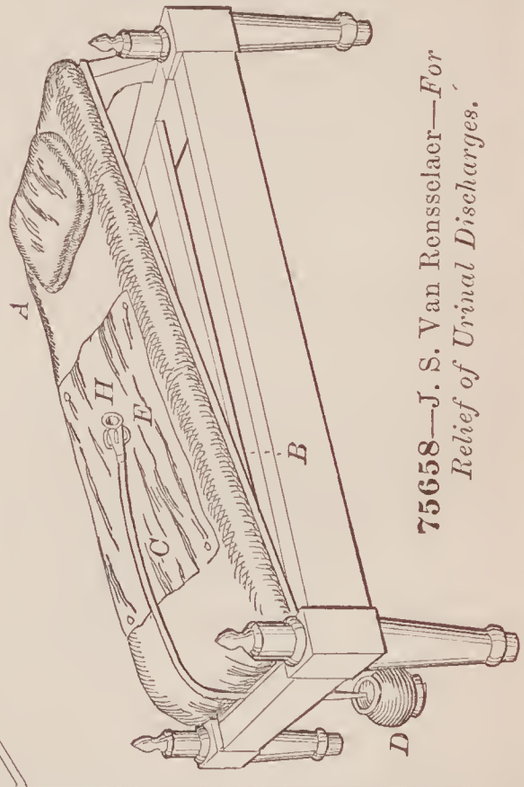
75652—H. C. Sisco—*Shovel and Tongs.*



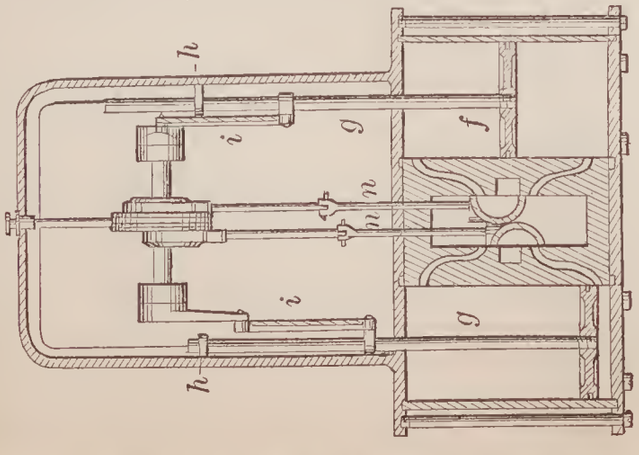
75657—Ulmann & Bockman—*Hand Engine.*



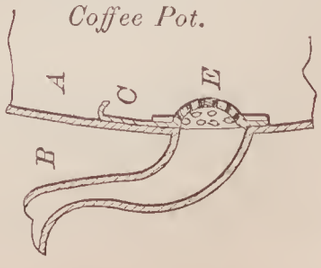
75658—J. S. Van Rensselaer—*For Relief of Urinal Discharges.*



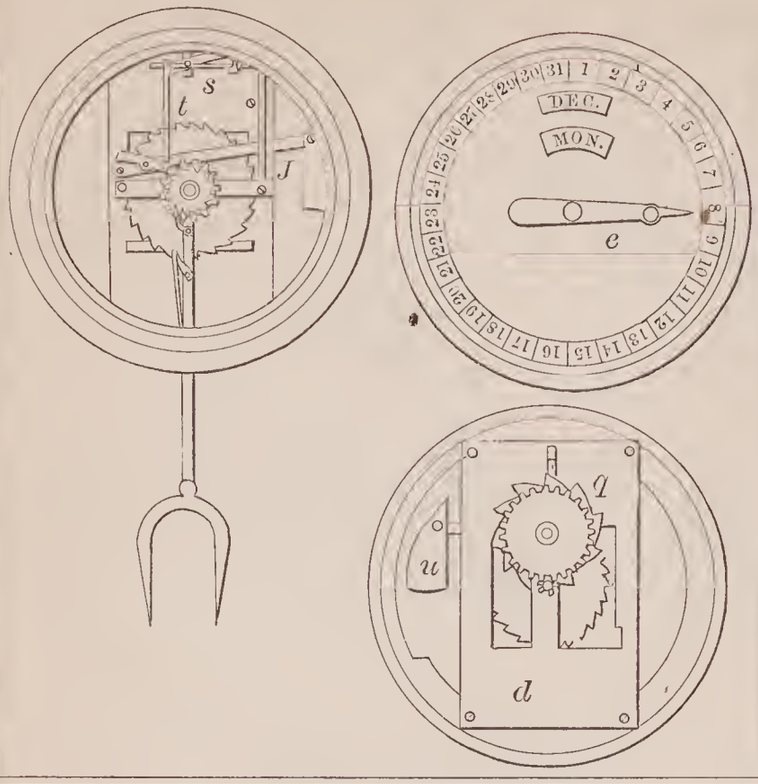
75655—E. Spencer—*Water Meter.*



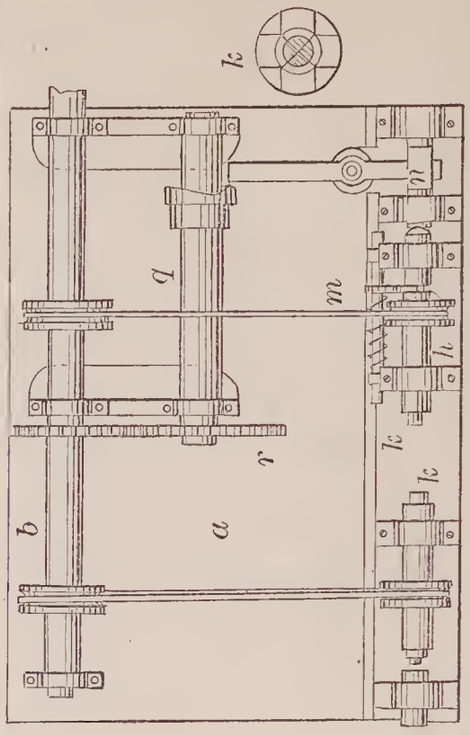
75651—M. Simons—*Tea and Coffee Pot.*



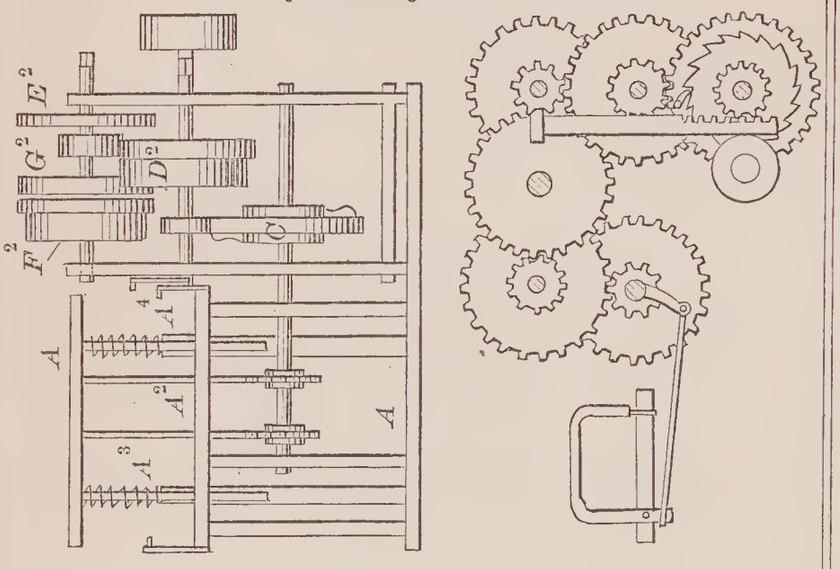
75659—A. S. Vose—*Calendar*



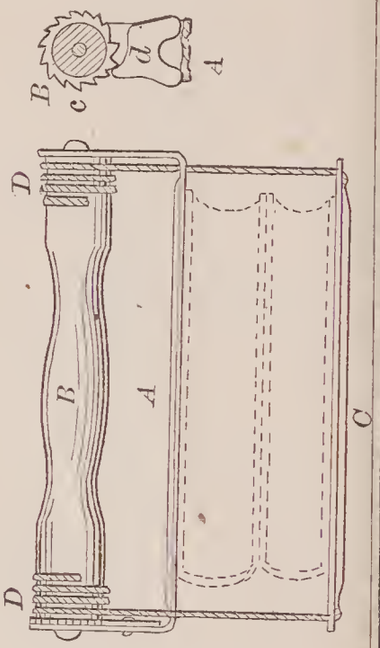
75663—H. D. Blake—*For Riveting Hinges.*



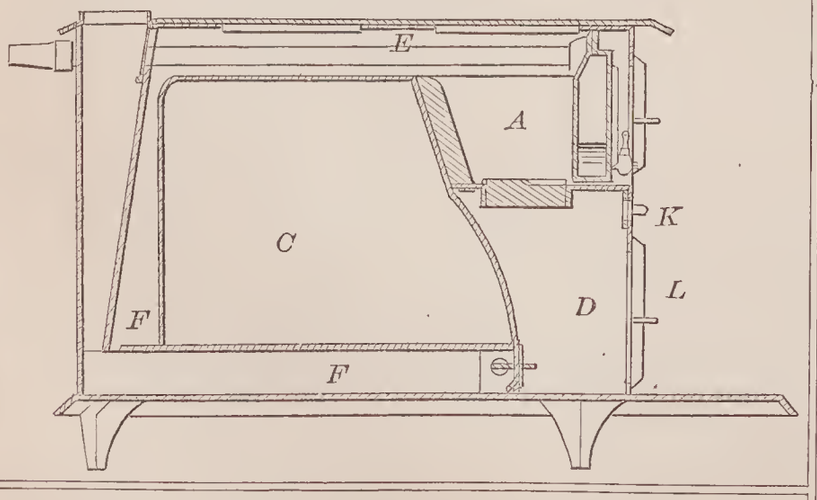
75666—A. C. Crary—*Sewing Machine Attachment.*



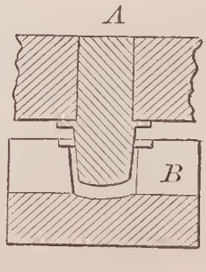
75660—W. C. Watson—*Book Clamp.*



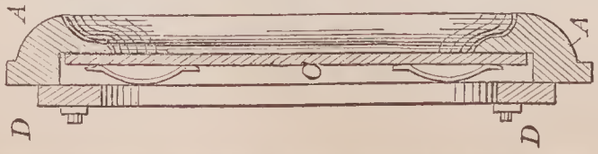
75665—G. Chilson—*Cooking Stove.*



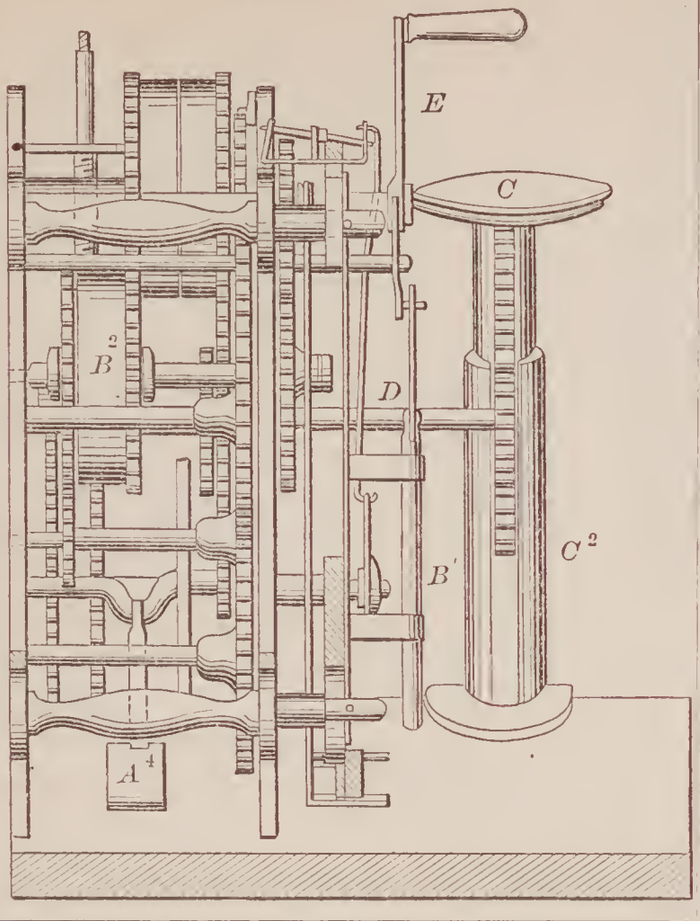
75662—H. W. Bailey—*For Making Hammers.*



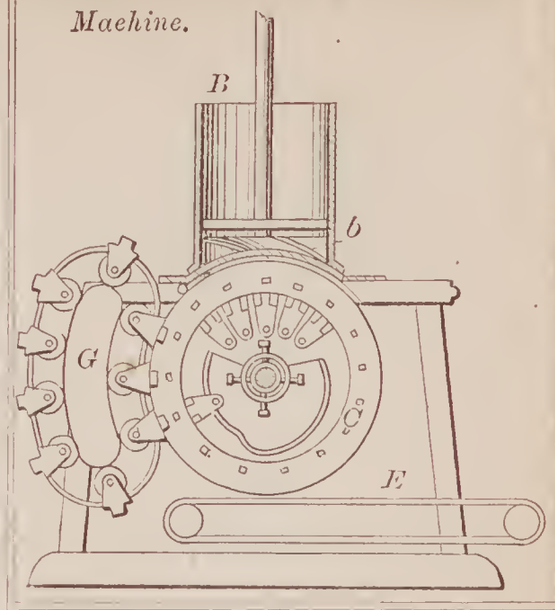
75664—C. H. Buck—*Stove Window.*



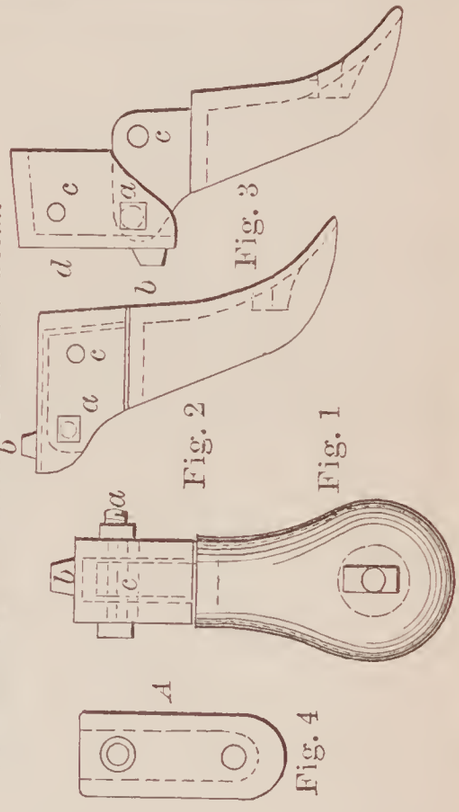
75667—A. C. Crary—*For Operating Sewing Maehines.*



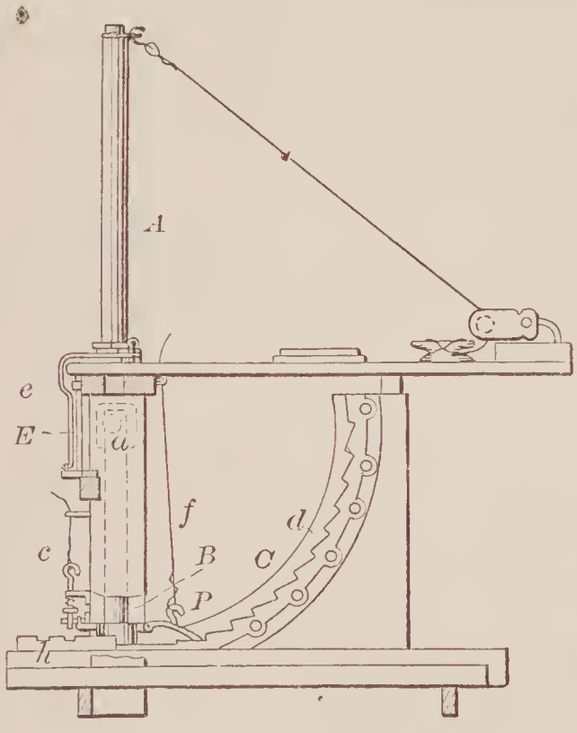
75668—Cutler & Swallow—*Brick Maehine.*



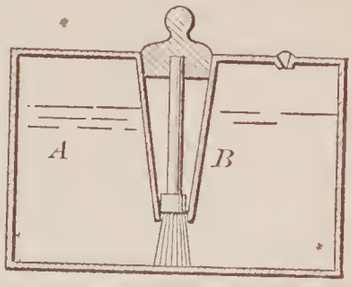
75669—J. D. De Turk—*Cultivator Teeth.*



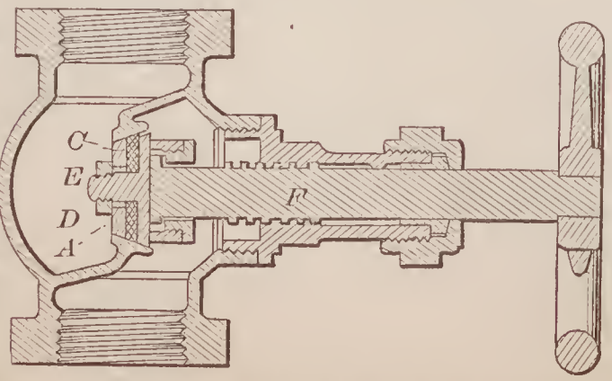
75671—G. Dowling—*For Lowering Ships' Masts.*



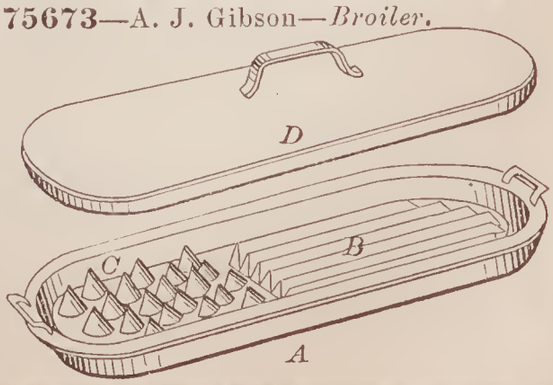
75672—H. H. Ebaugh—*Mueilage Bottle.*



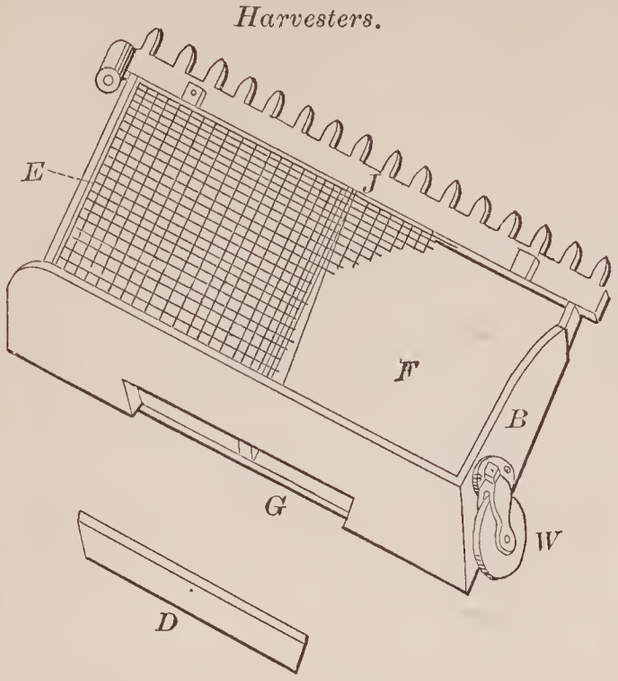
75670—F. Douglass—*Globe Valve.*



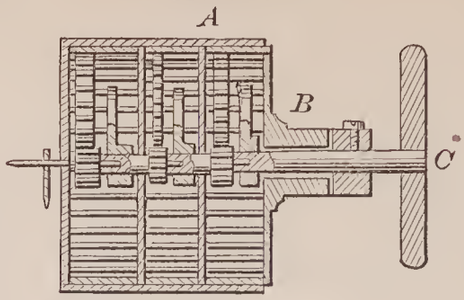
75673—A. J. Gibson—*Broiler.*



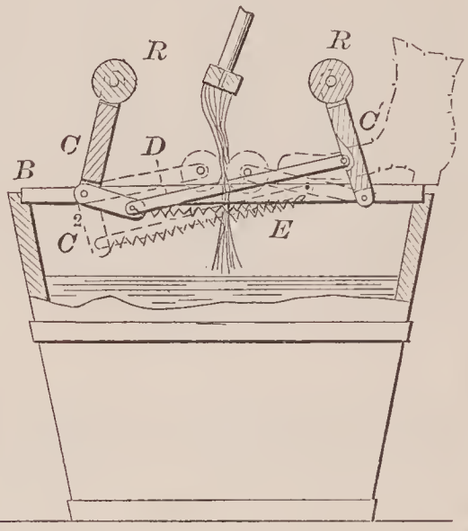
75674—A. E. Gleason—*Grain Platform for Harvesters.*



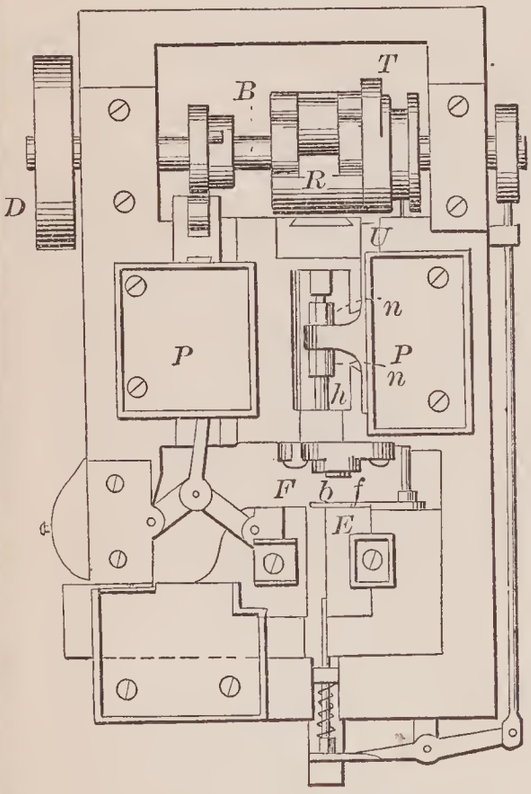
75676—W. F. Goodwin—*Mechanical Movement.*

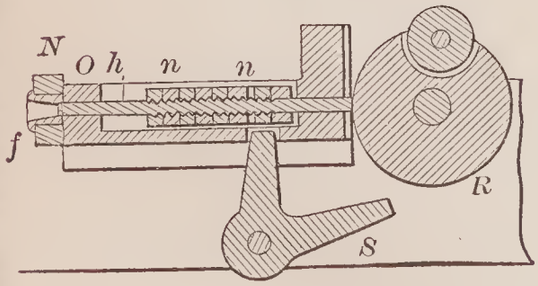


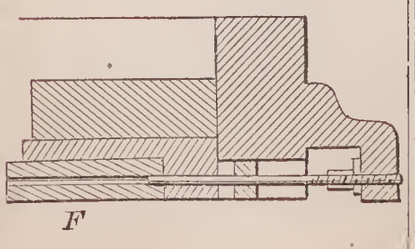
75679—J. H. Gridley—*Mop Wringer.*



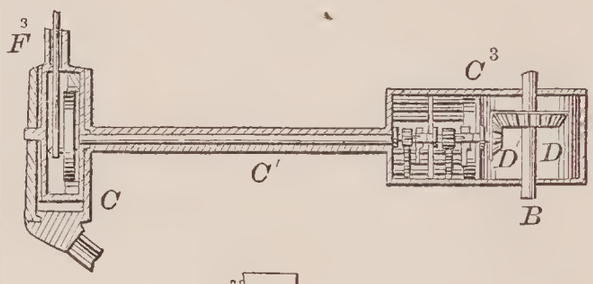
75675—A. B. Glover—*For Heading Bolts.*

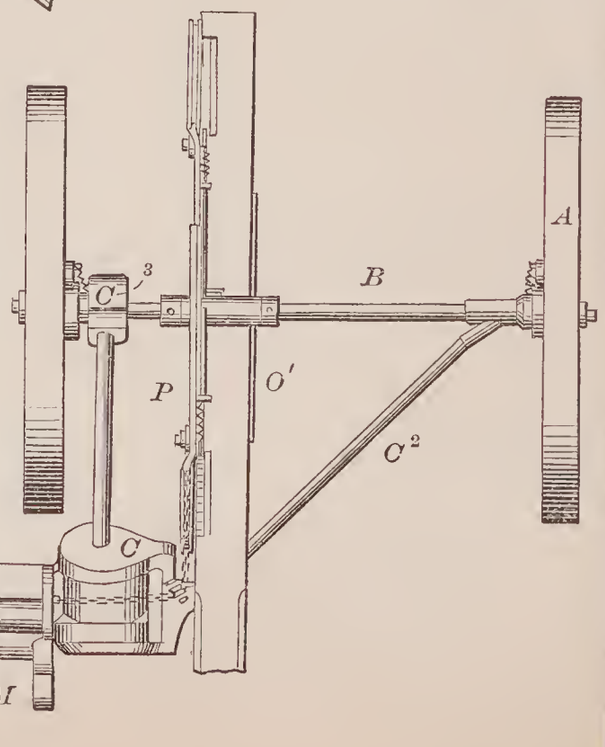






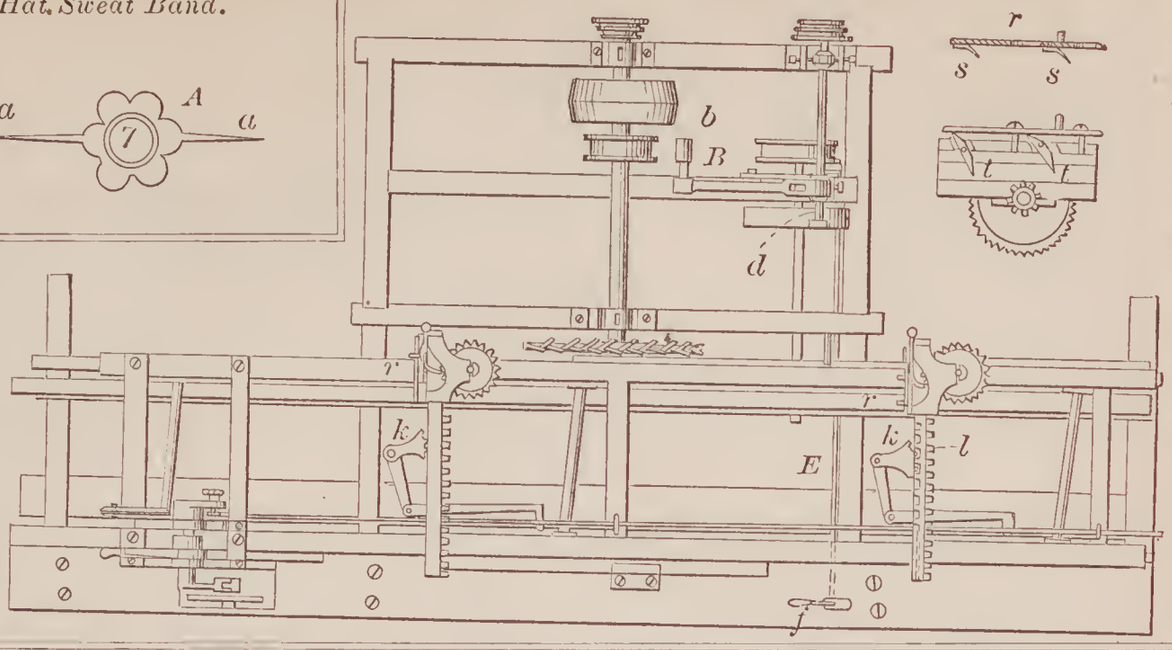
75677—Goodwin & Smith—*Harvester.*



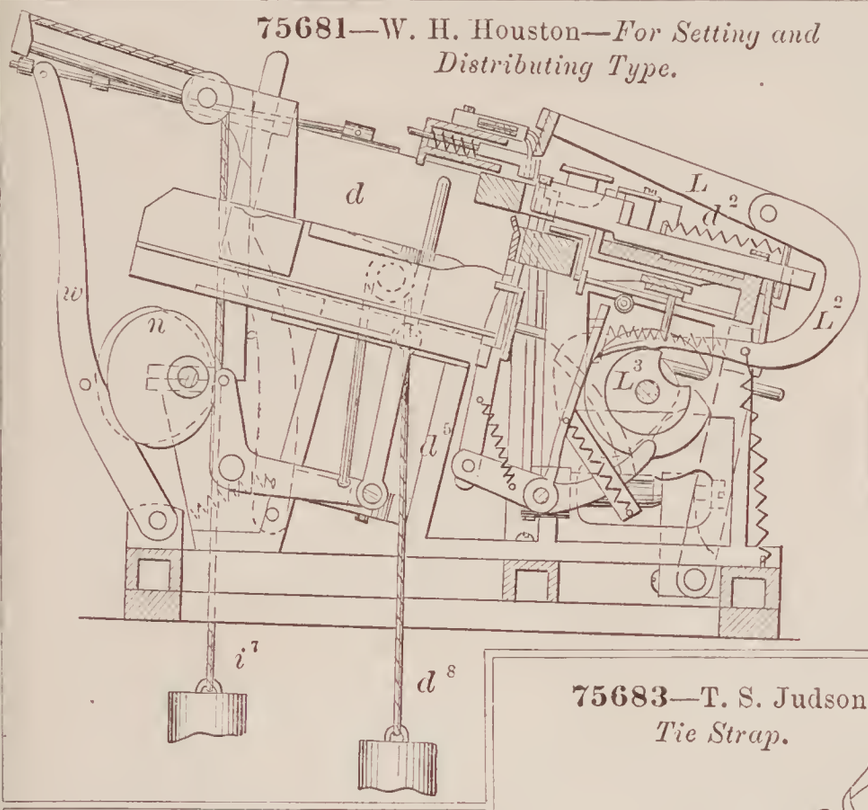


75685—Lawrence & Murfey—*Hat Sweat Band.*

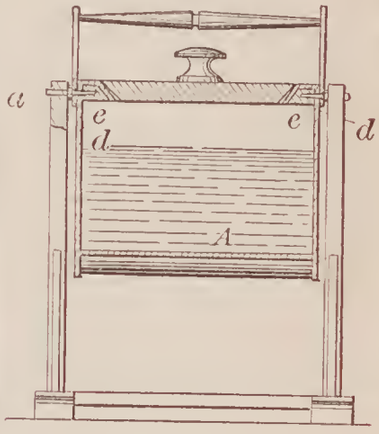
75678—H. H. Gridley—*Saw Mill.*



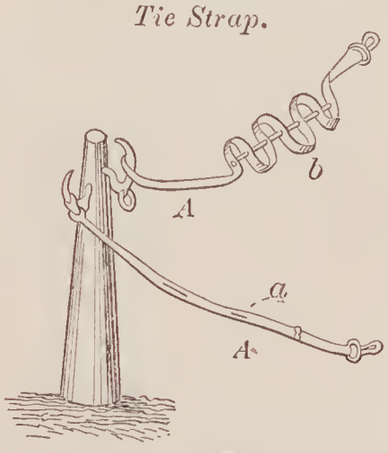
75681—W. H. Houston—*For Setting and Distributing Type.*



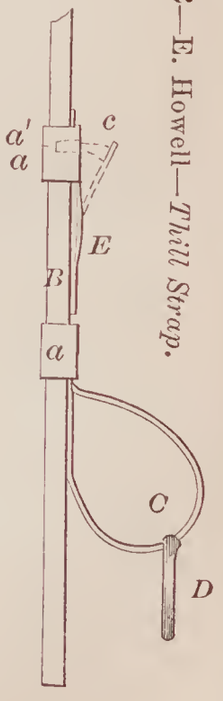
75680—F. W. Heins—*Washing Machine.*



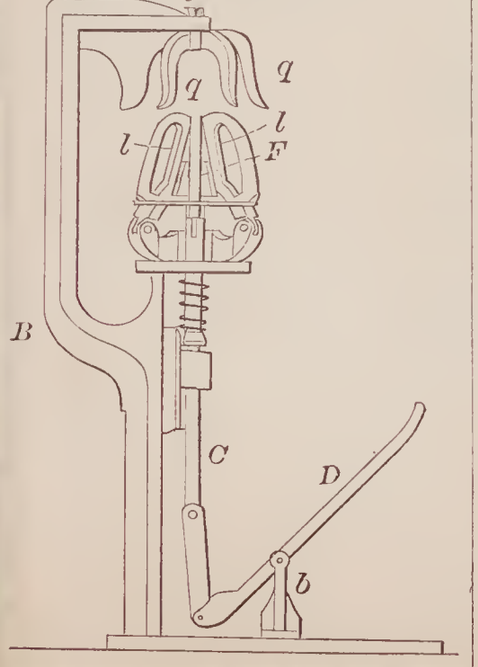
75683—T. S. Judson—*Tie Strap.*



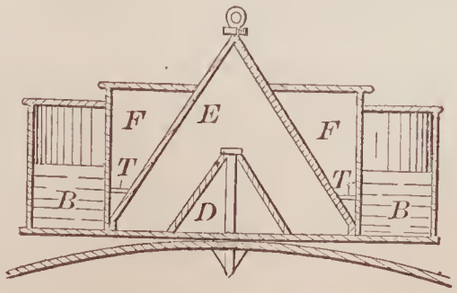
75682—E. Howell—*Thill Strap.*



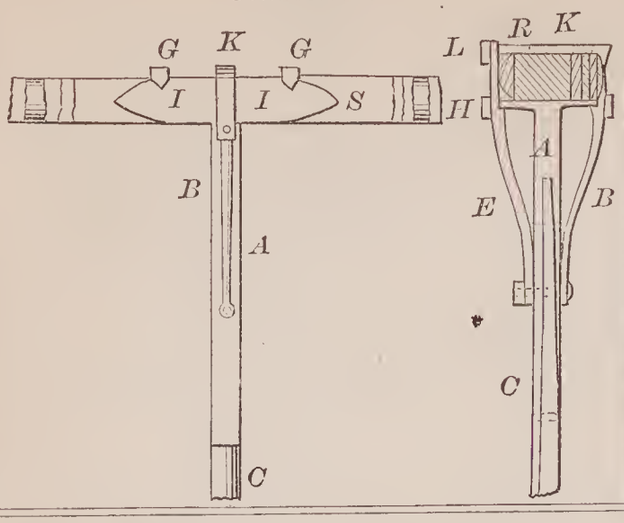
75684—P. Keffer—*For Stretching Hat Bodies.*



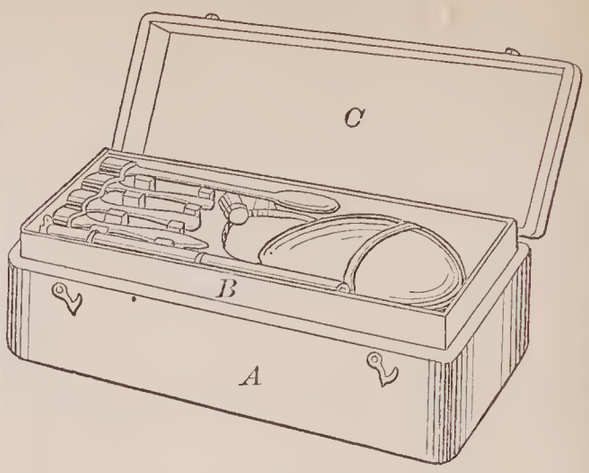
75687—A. Mackey—*Centrifugal Machine.*



75688—D. A. Mathews—*Carriage Perch Connection.*



75689—M. Mattson—*Syringe Case.*



75686—W. Louden—*Hay Elevator.*

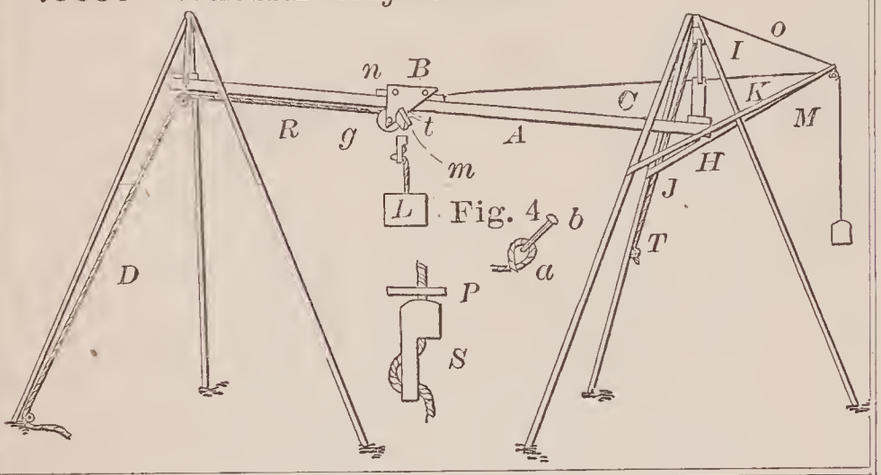
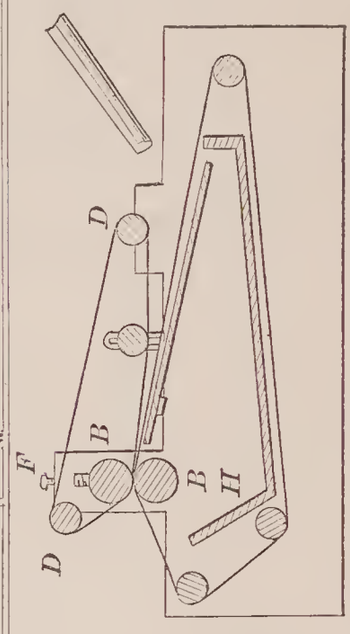
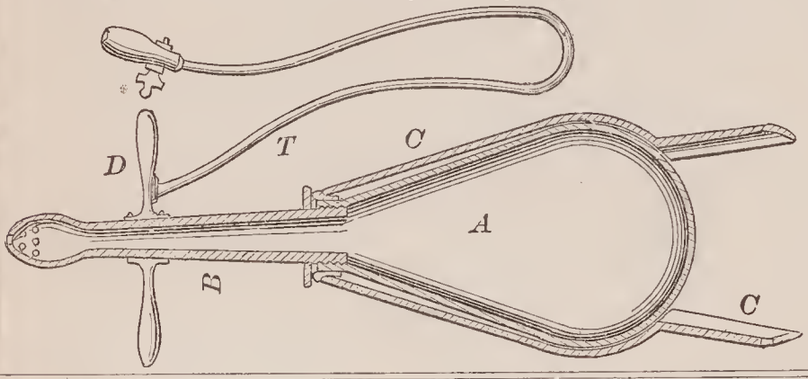


Fig. 4.

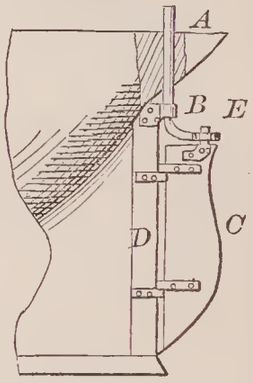
75691—S. T. Merrill—*Bleaching Paper Stock.*

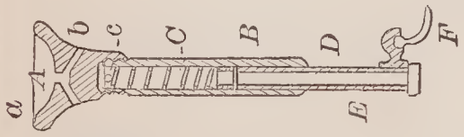


75693—J. A. Morrell—*Vaginal Syringe.*

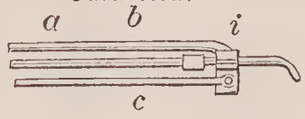


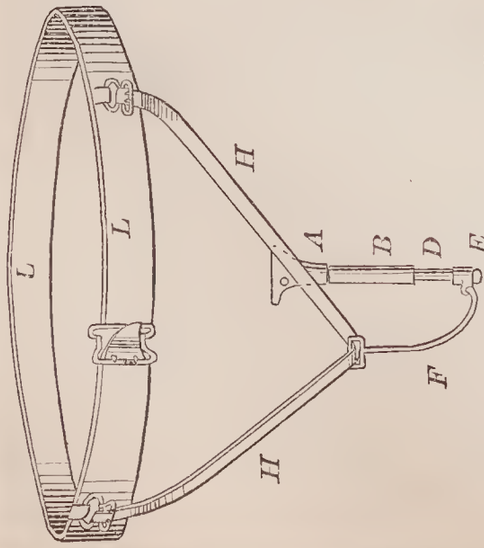
75696—T. W. Murrey—*Rudder.*





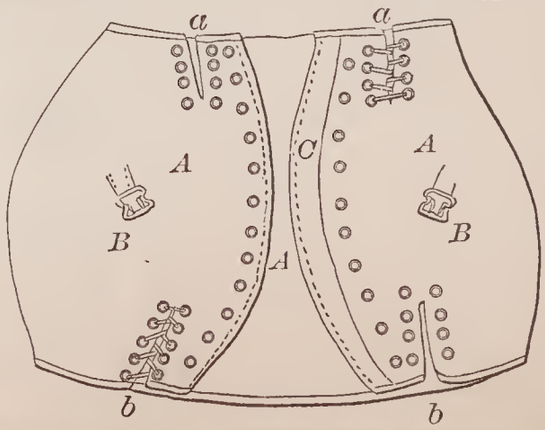
75692—Minor & Frost—*Umbrella.*



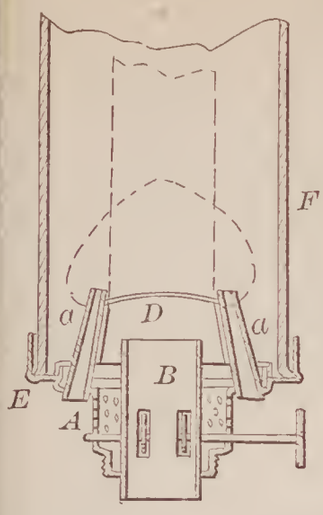


75694—J. A. Morrell—*Uterine Supporter.*

75695—J. A. Morrell—*Abdominal Supporter.*



75697—R. W. Park—*Lamp Burner.*



75698—G. Pennoyer—*Thill Coupling.*

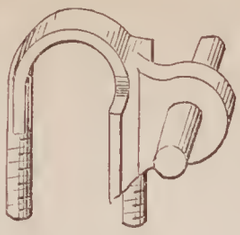


Fig. 1

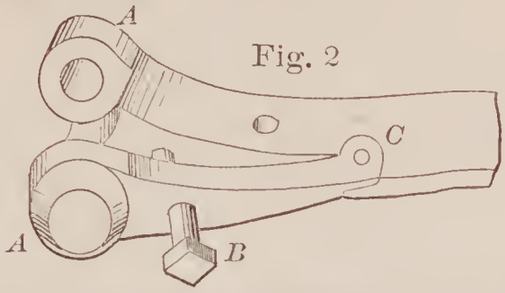
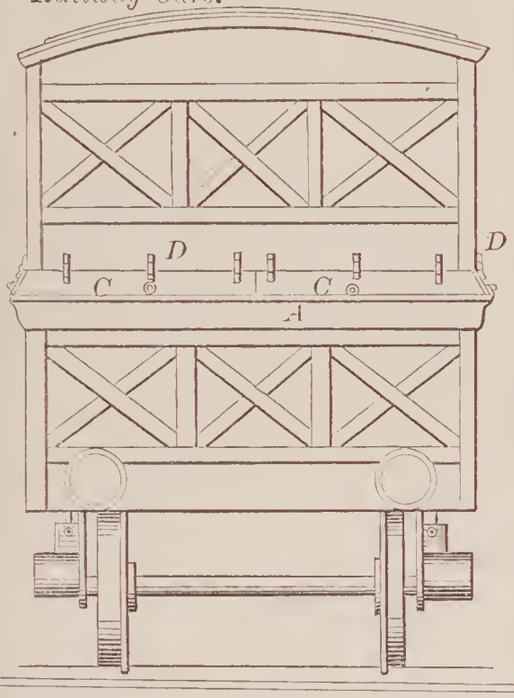


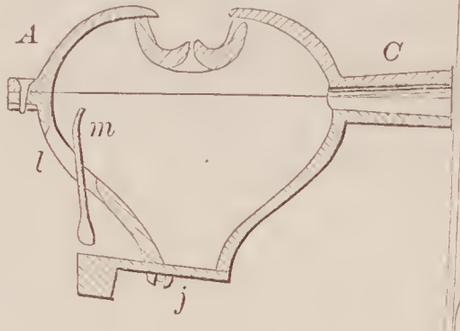
Fig. 2

75699—F. P. Pfleghar—*Bit Brace.*

75701—W. Reid—*Supplying Cattle on Railway Cars.*

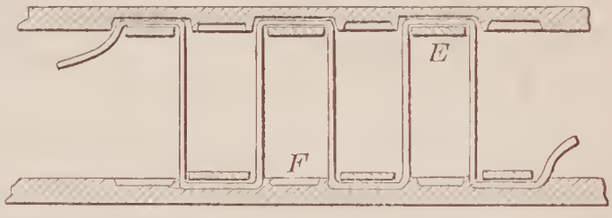


75703—J. W. Rogers—*Tuyere.*

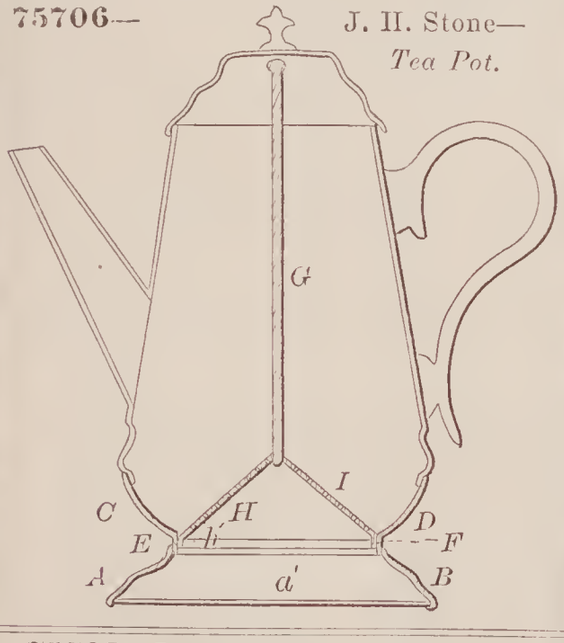


75705—J. L. Sheppard—*Cotton Bale Tie.*

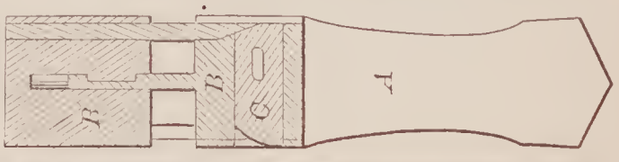
75704—E. Schmeltz—*Belt Fastening.*



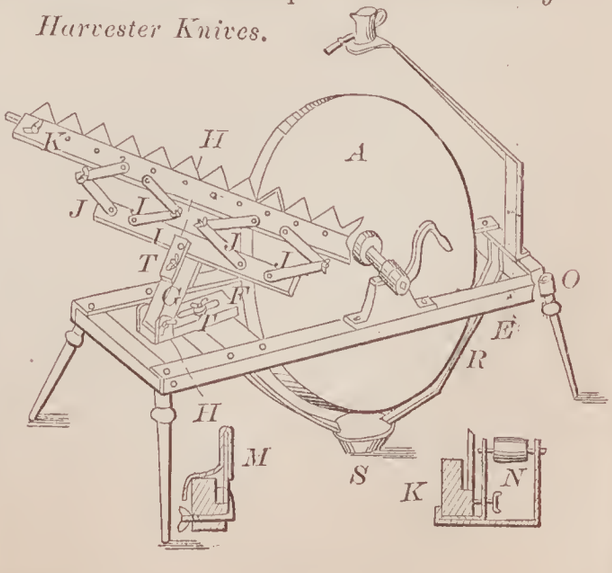
75706—J. H. Stone—*Tea Pot.*



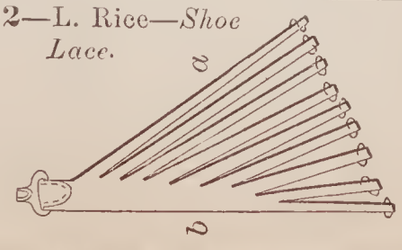
75708—H. M. Stow—*Well Drill.*



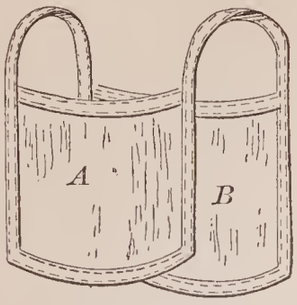
75709—J. A. Thompson—*For Grinding Harvester Knives.*



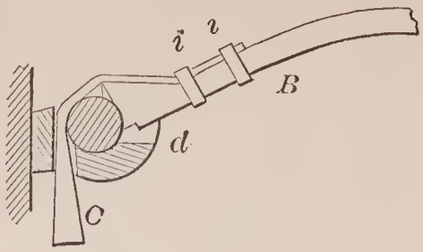
75702—L. Rice—*Shoe Lace.*



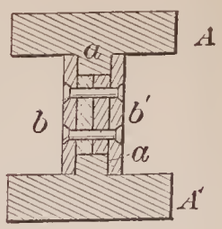
75710—J. W. Torry—*Body Protector.*



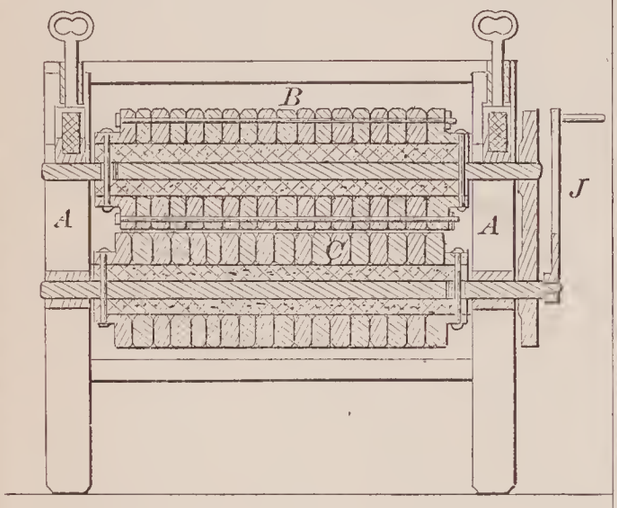
75711—J. P. Tyson—*Carriage Thill.*



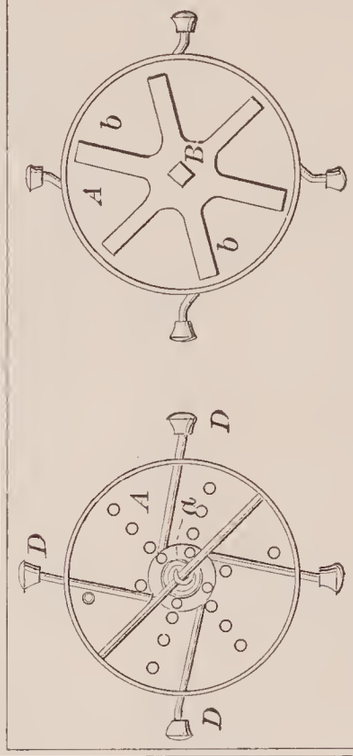
75712—Walters & Shaffer—*Beam Fagot.*



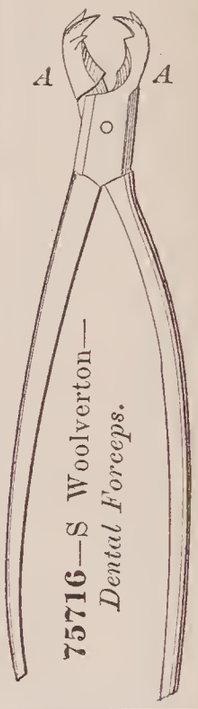
75707—W. M. Storm—*Clothes Wringer.*



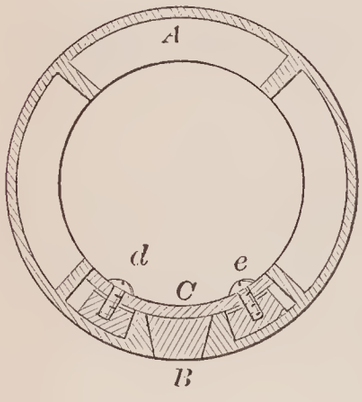
75717—W. R. Worden—*Sprinkler.*



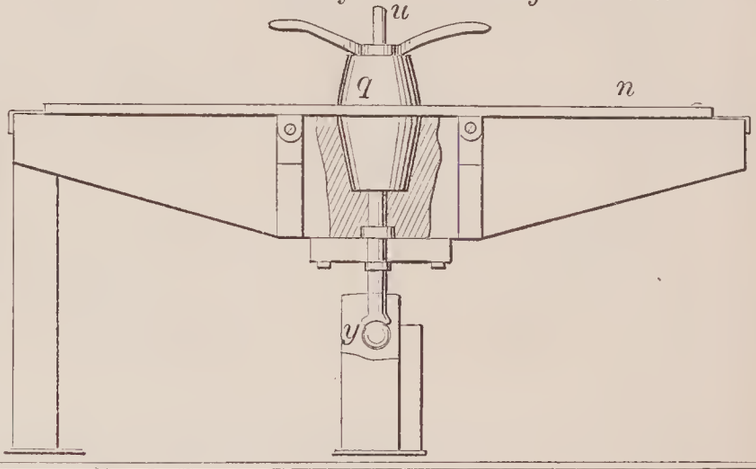
75716—S Woolverton—*Dental Forceps.*



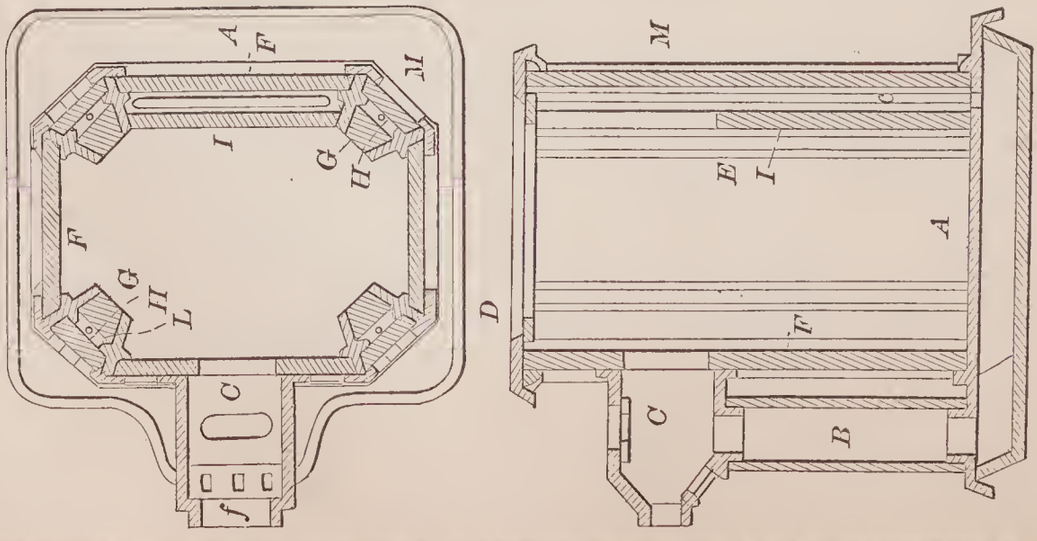
75712—J. Wheelock—*Piston.*



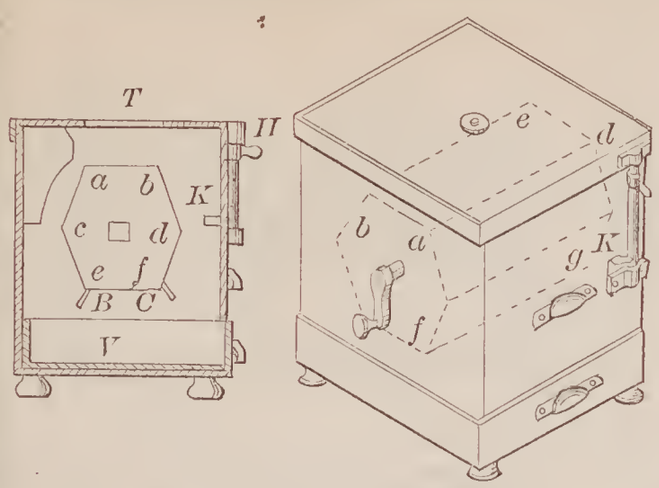
75713—R. B. Wheatley—*Tire Setting Machine.*

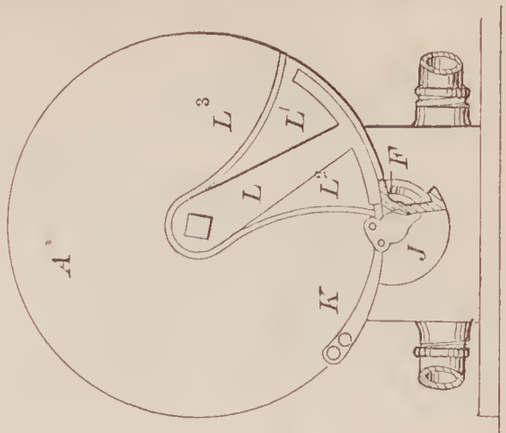


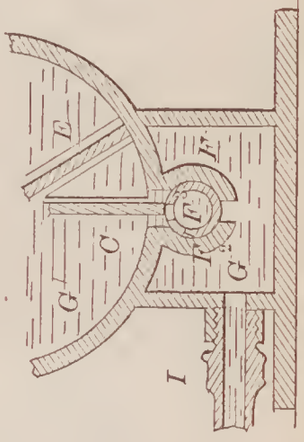
75715—C. Williams—*Coal Stove.*



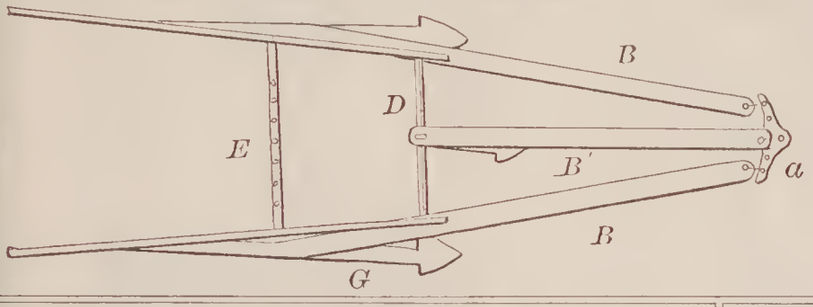
75719—S. Albee—*Parlor Coal Sifter.*



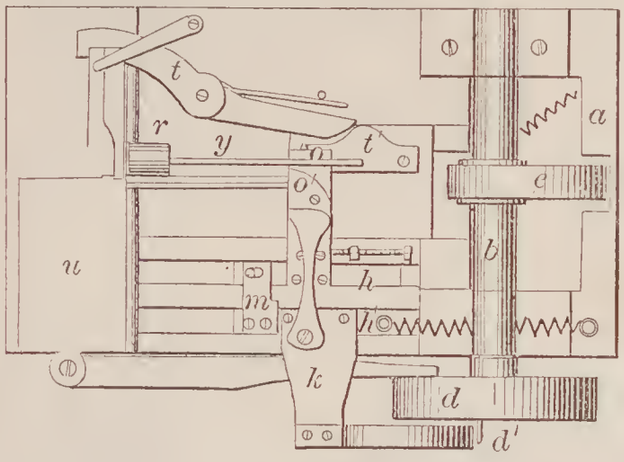




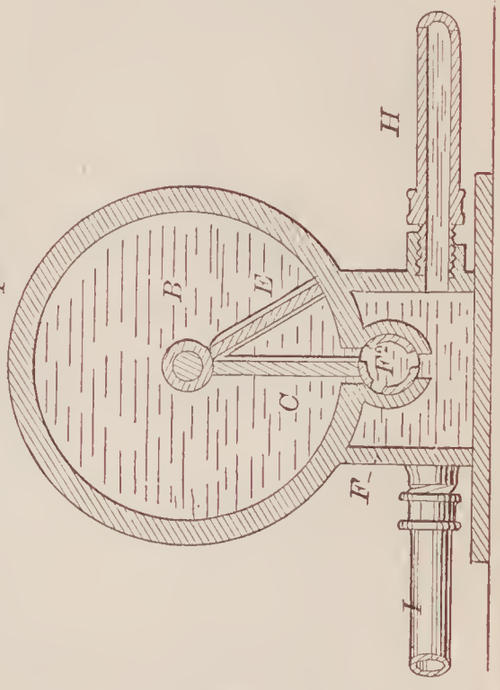
75718—W. R. Adams—*Corn Cultivator.*



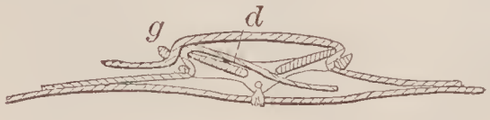
75724—H. D. Blake—*For Making Butt Hinges.*



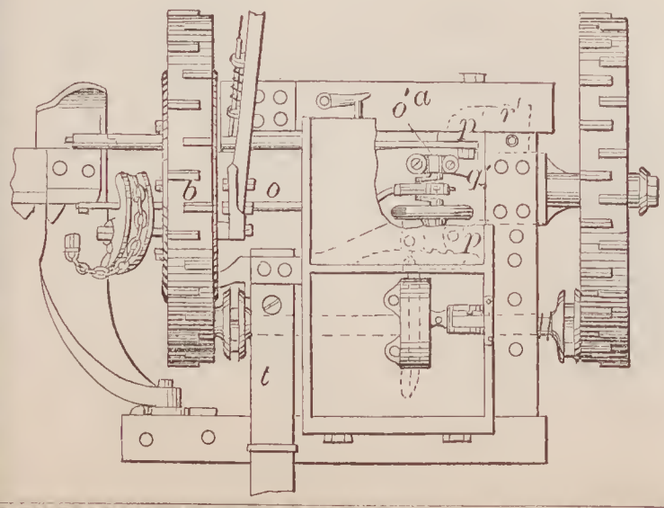
75721—R. H. Atwell—*Liquid Meter.*

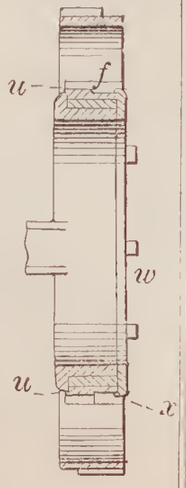


75722—W. Babin—*Buckle.*

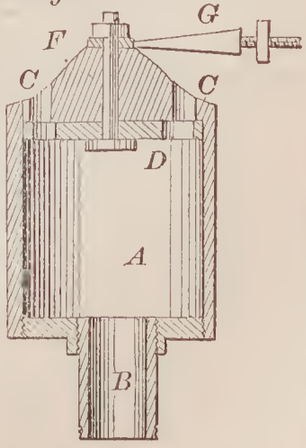


75720—W. Allen—*Mowing Machine.*

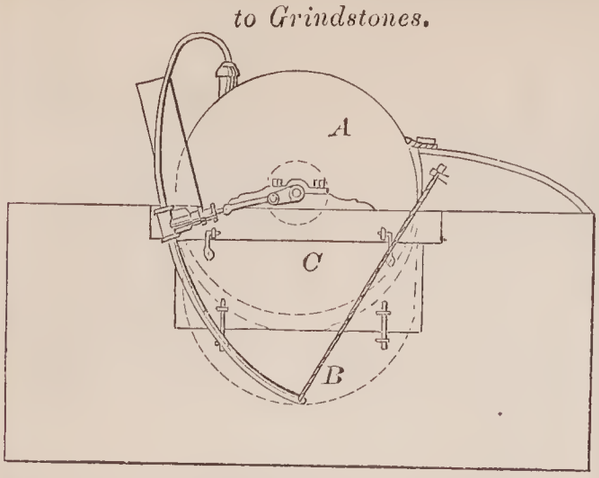




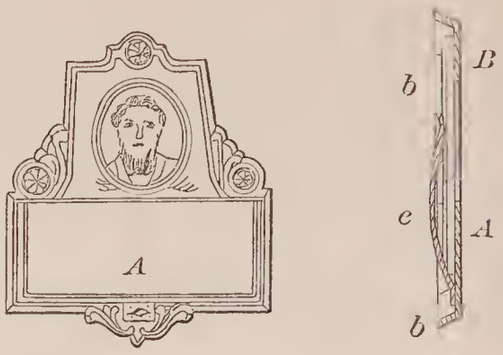
75723—J. H. Baker—*Variable Exhaust for Engines.*



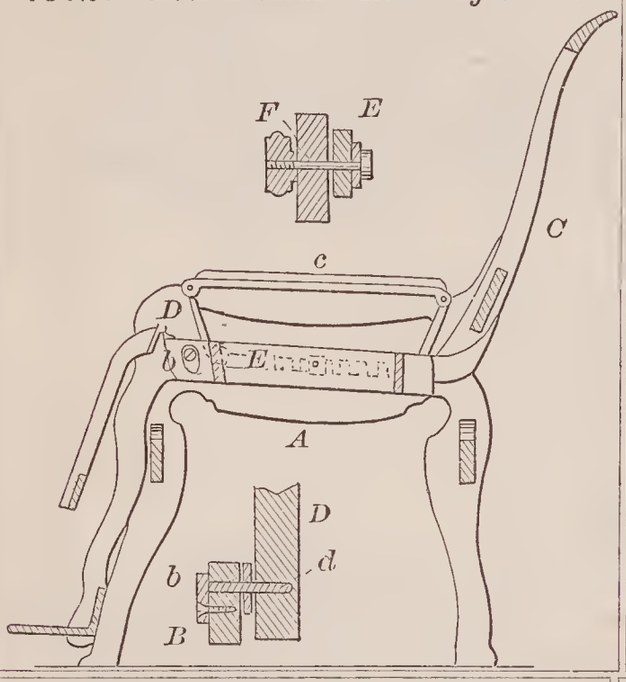
75725—F. Blauss—*For Supplying Water to Grindstones.*



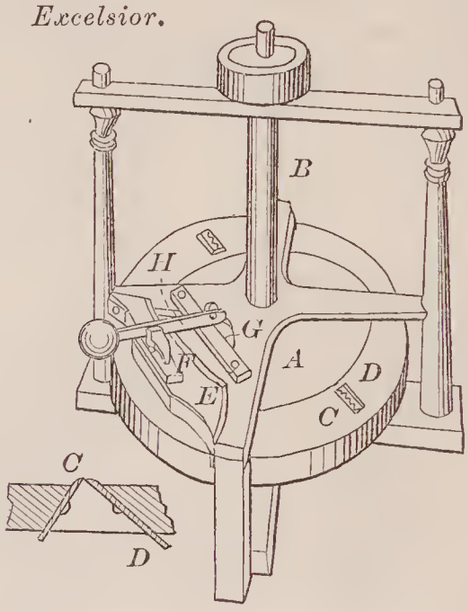
75726—G. Brabrook—*Name Plate.*



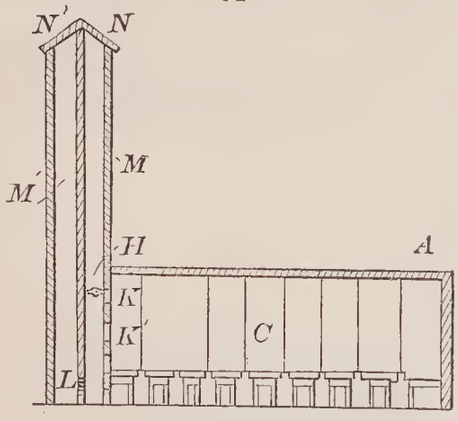
75727—H. B Braman—*Reclining Chair.*



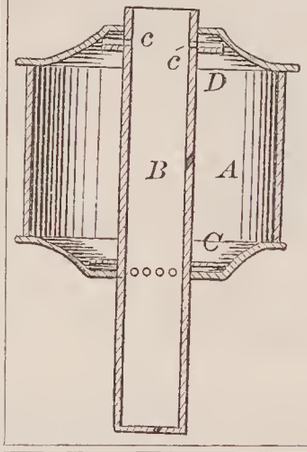
75728—Brooks & Clement—*For Making Excelsior.*



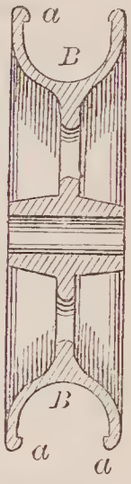
75730—S. H. Clapp—*Brick Kiln.*



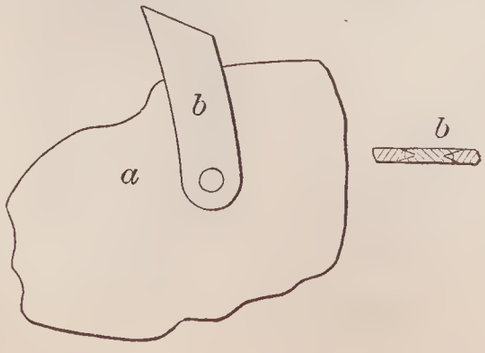
75731—H. M. Clark—*Lamp.*



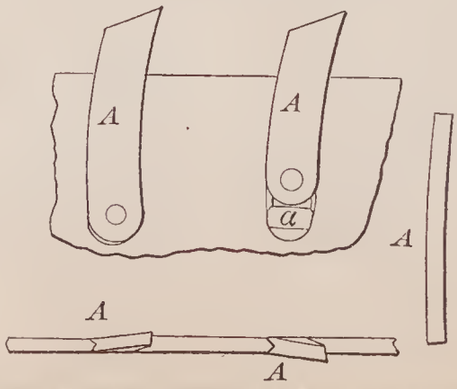
75735—Collins & Burgie—*Sheaf.*



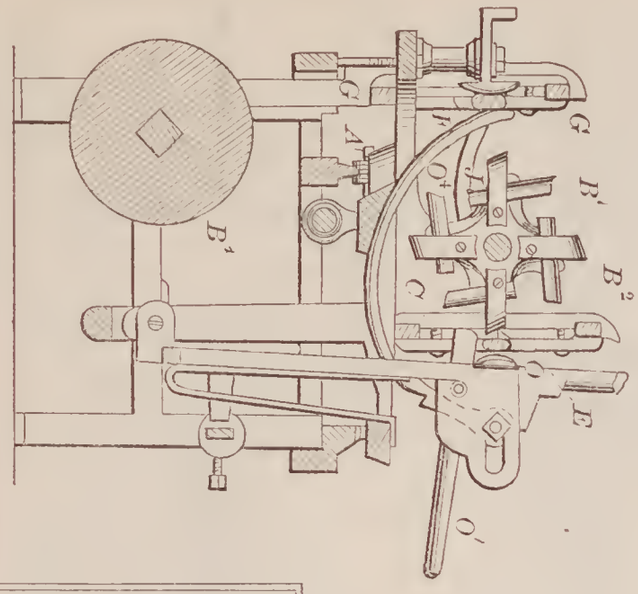
75734—W. Clemson—*Saw.*

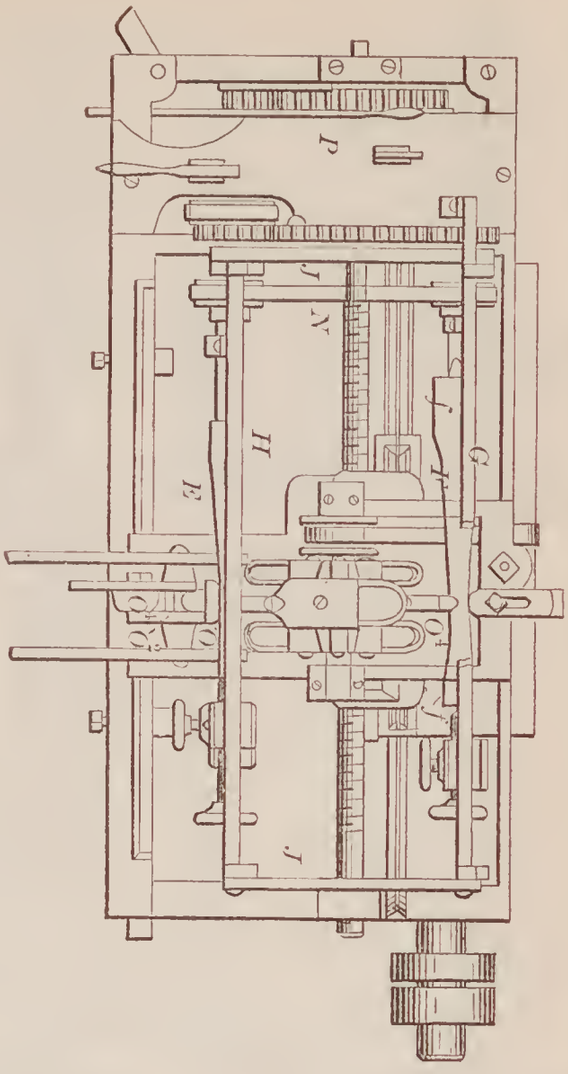


75733—W. Clemson—*Saw*

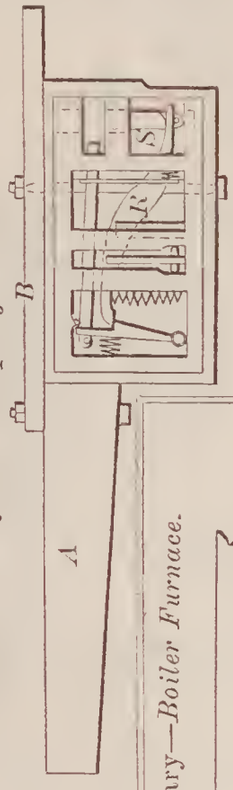


75736—M. F. Connett—*Wood Turning Lathe.*

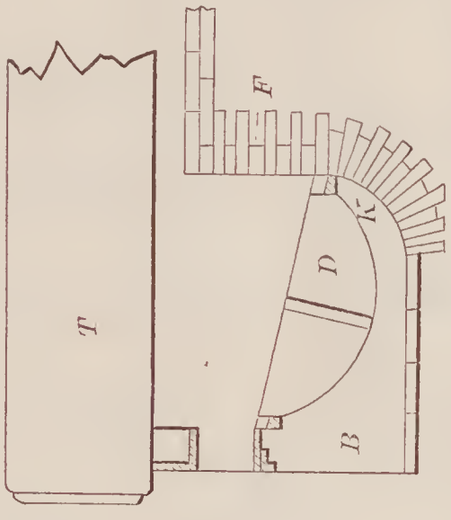


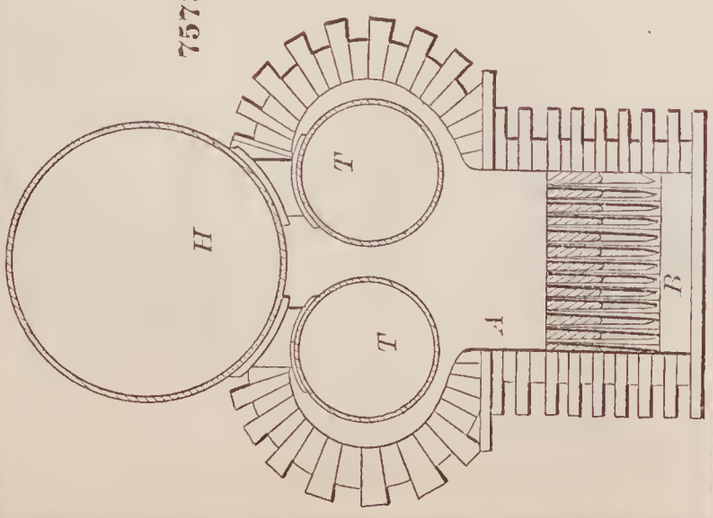


75738—R. Daily—*Car Coupling.*

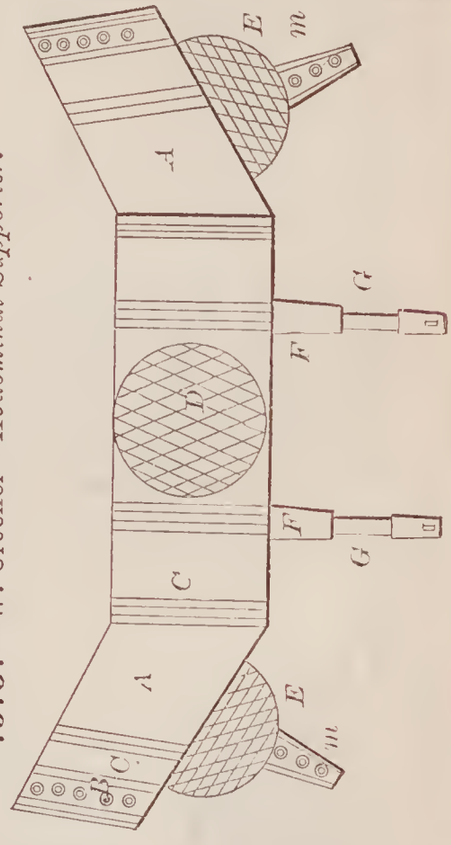


75739—A. de Pindary—*Boiler Furnace.*

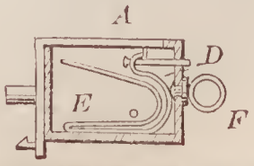




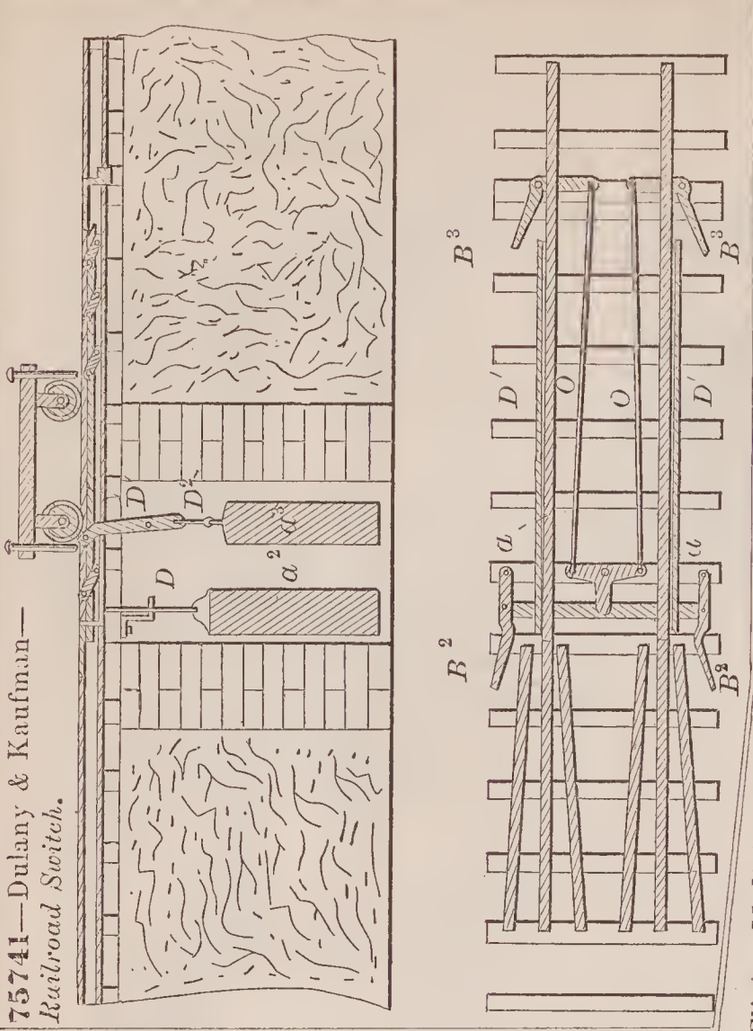
75737—W. Crocker—*Abdominal Supporter.*



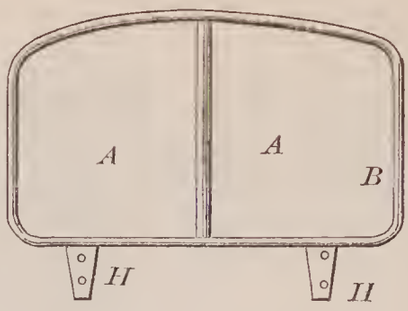
75740—R. H. Dilley—*Watch Key.*



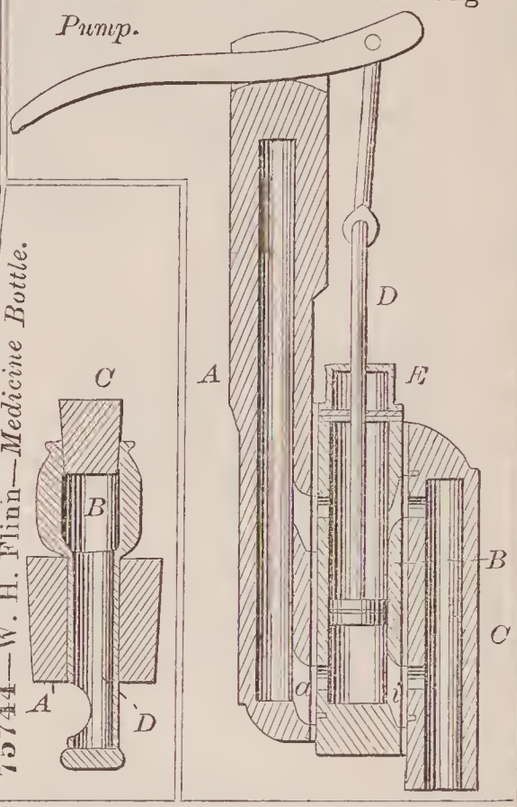
75741—Dulany & Kaufman—*Railroad Switch.*



75746—Franklin & Smith—*Carriage Dash Board.*

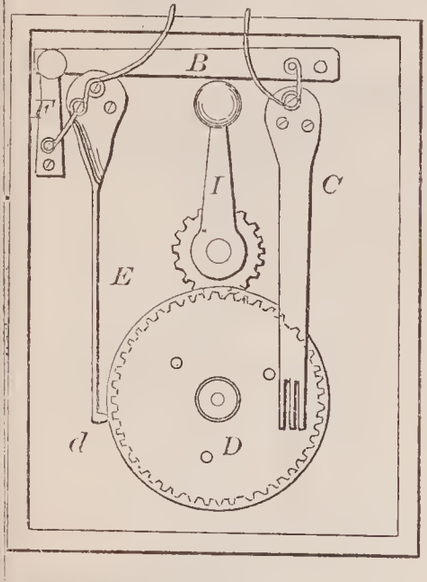


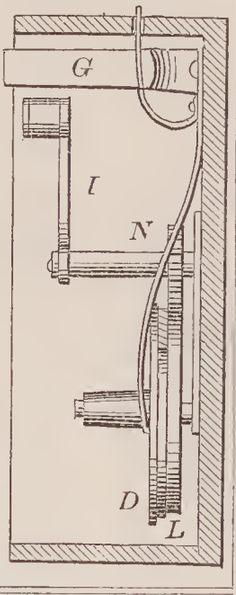
75747—Gilliland & Armstrong *Pump.*



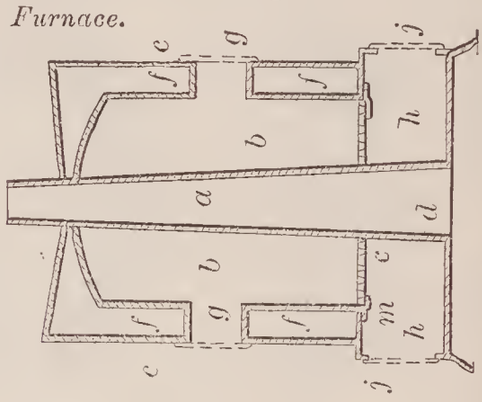
75744—W. H. Flinn—*Medicine Bottle.*

75743—L. B. Firman—*Electric Commutator.*

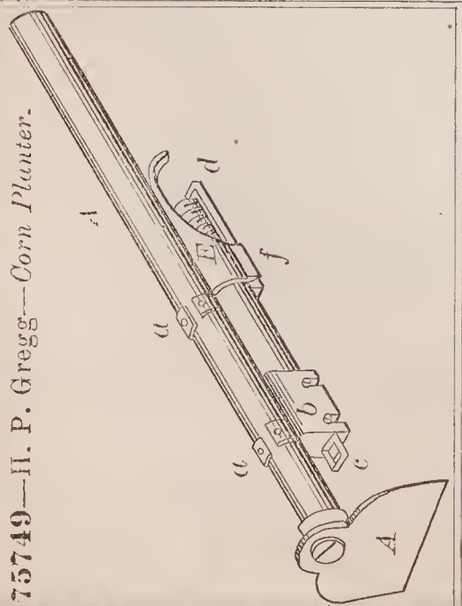




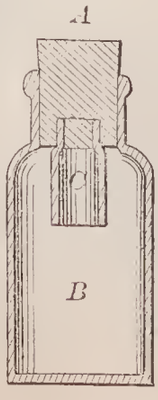
75748—W. C. Googins—*Stove and Furnace.*



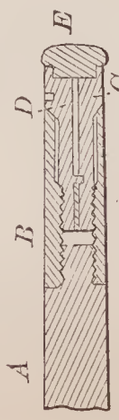
75749—H. P. Gregg—*Corn Planter.*



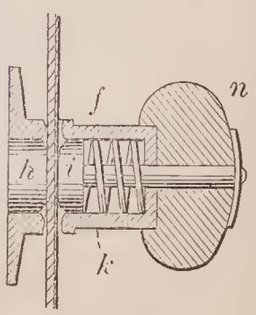
75745—W. H. Flinn—*Medicine Bottle.*



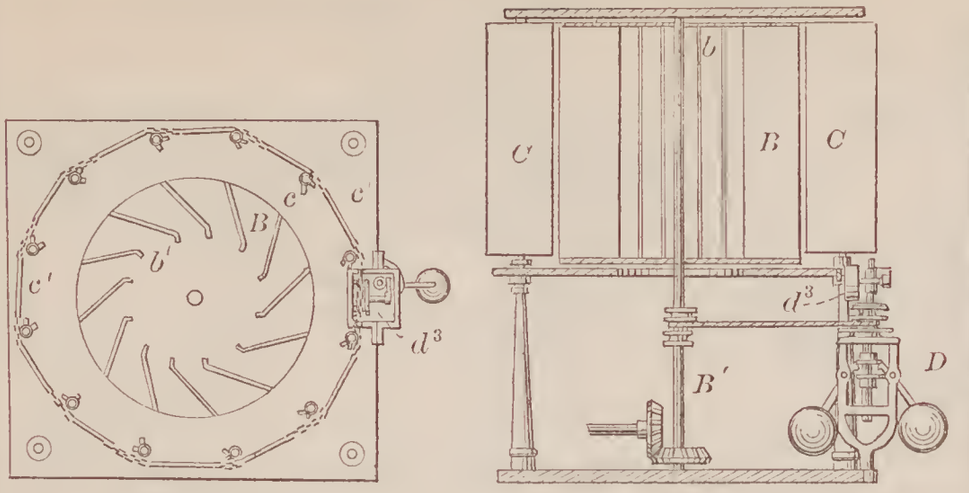
75751—H. C. Griffin—*Billiard Cue.*



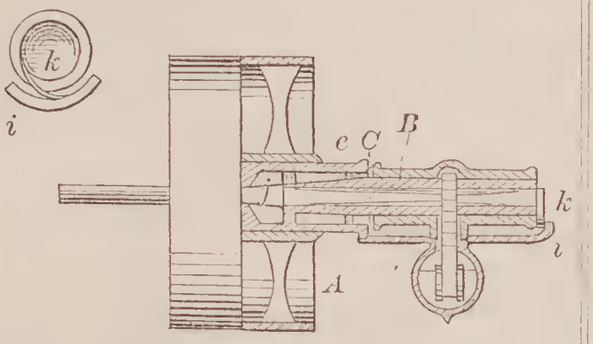
75750—W. D. Gridley—*Curtain Fixture*



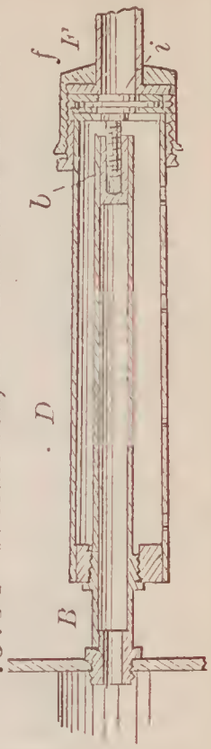
75752—E. J. Hall—*Wind Wheel.*



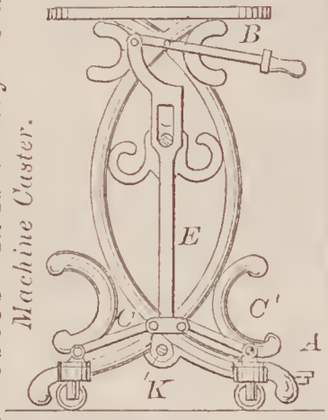
75753—W. Hamilton—*For Oiling Pulleys.*



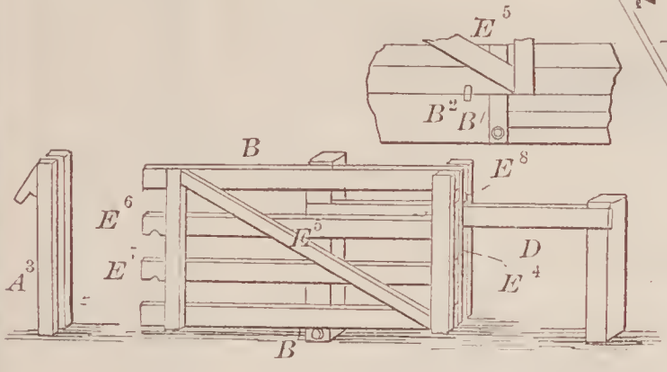
75754—J. Harrison, Jr.—*Low Water Detector.*



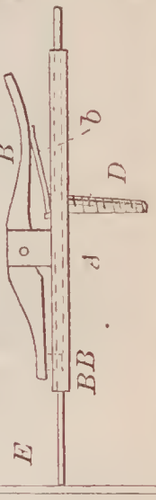
75755—R. Hathaway—*Sewing Machine Caster.*



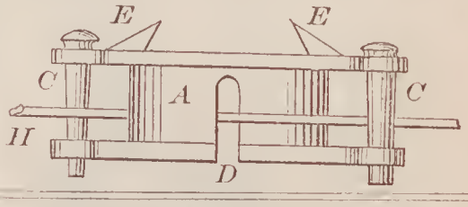
75756—H. A. Henderson—*Farm Gate.*



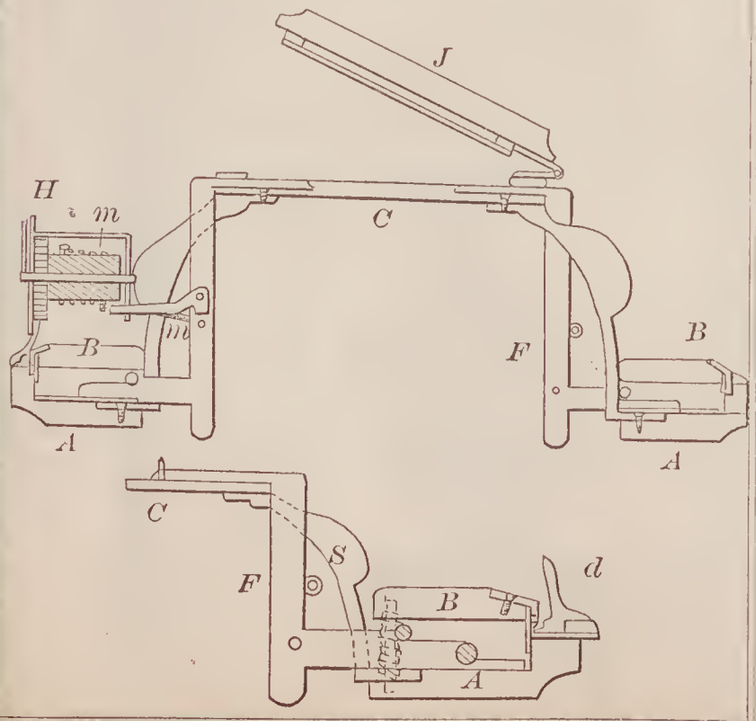
75757—L. Herr—*Trace Fastener.*



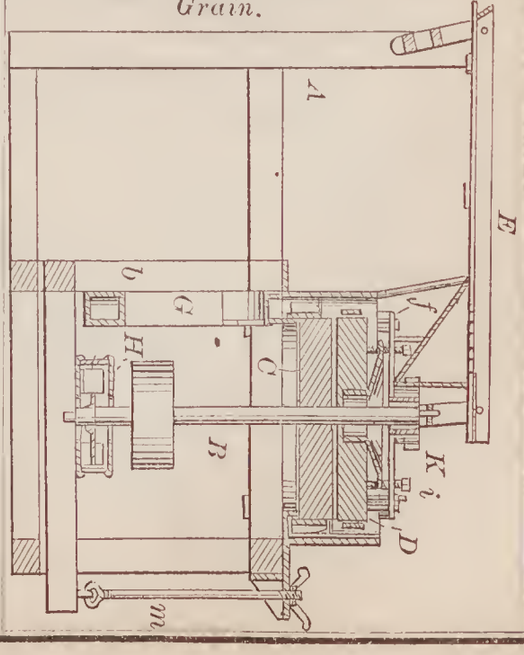
75759—S. B. Hewett, Jr.—*Wire Fence Key.*



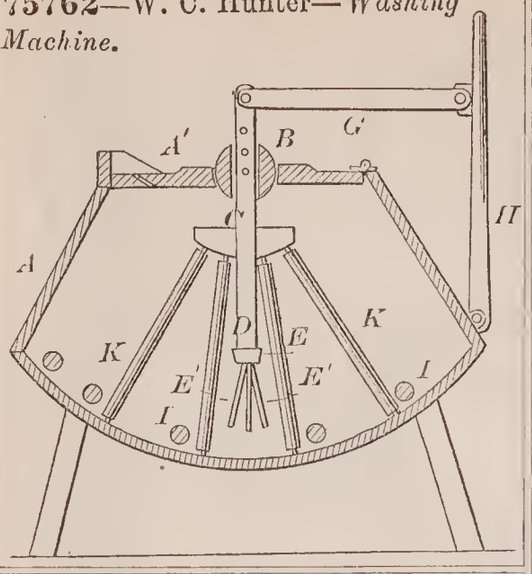
75760—B. Hogan—*Hat Conformateur.*



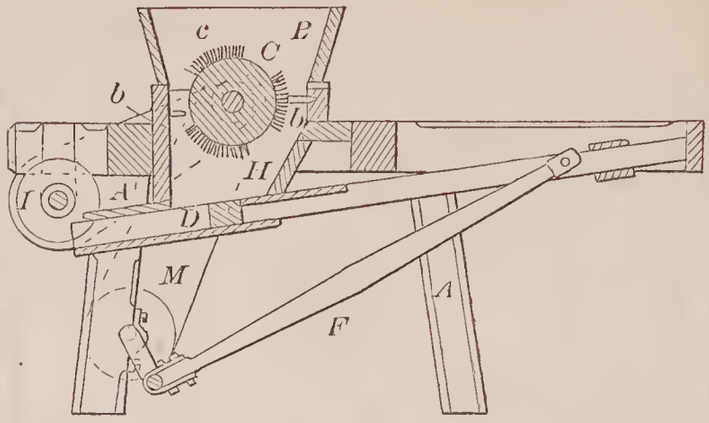
75761—A. Hubbell—*For Hulling Grain.*



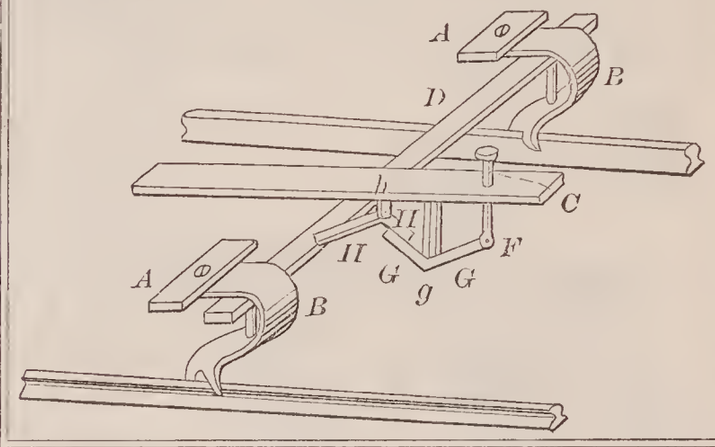
75762—W. C. Hunter—*Washing Machine.*



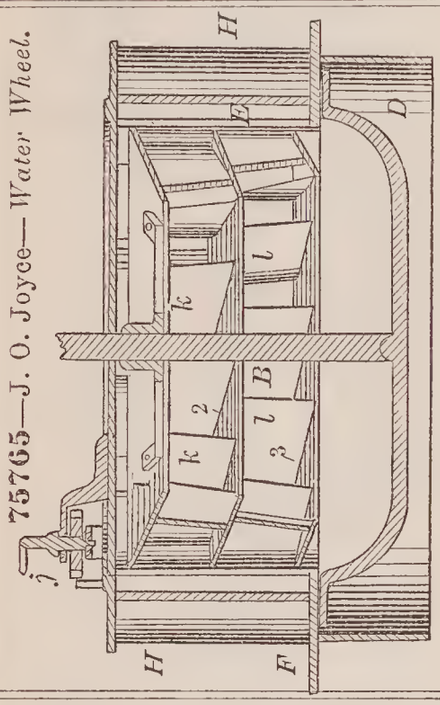
75763—C. W. Englis—*For Preparing Peat.*



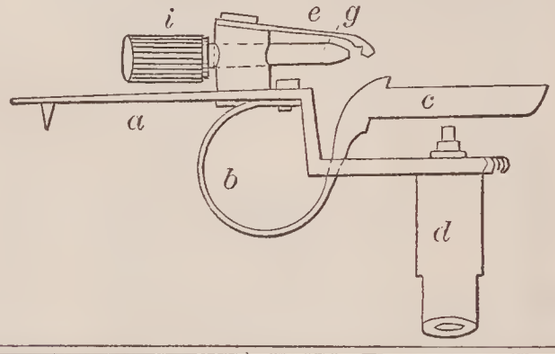
75764—J. W. A. Jones—*Street Railway Scraper.*



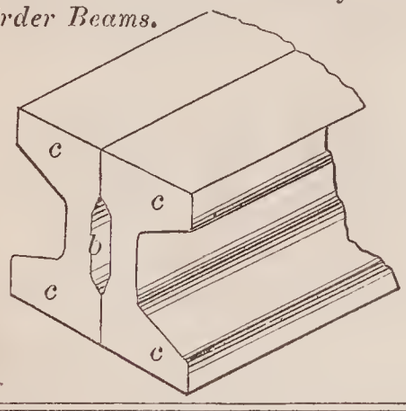
75765—J. O. Joyce—*Water Wheel.*



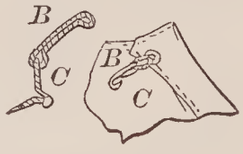
75771—C. Knisely—*Burglar Alarm.*



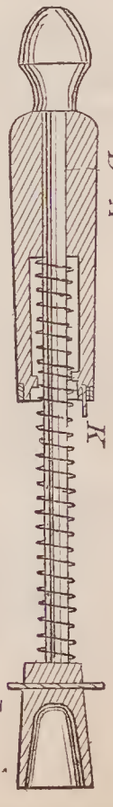
75770—A. Kloman—*Pile for Girder Beams.*



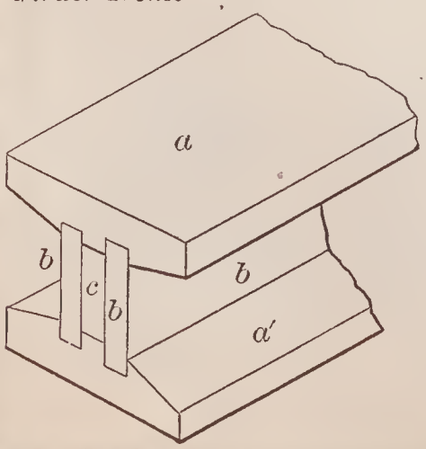
75768—N. Kirchner—*For Fastening Shoes.*



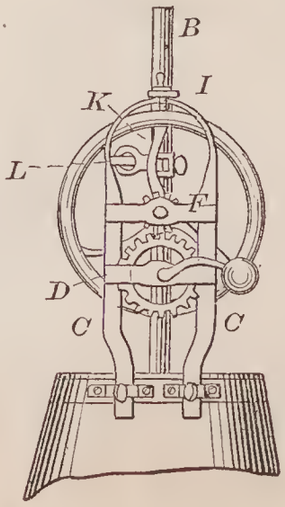
75767—E. W. Keyes—*Torpedo Toy Gun.*



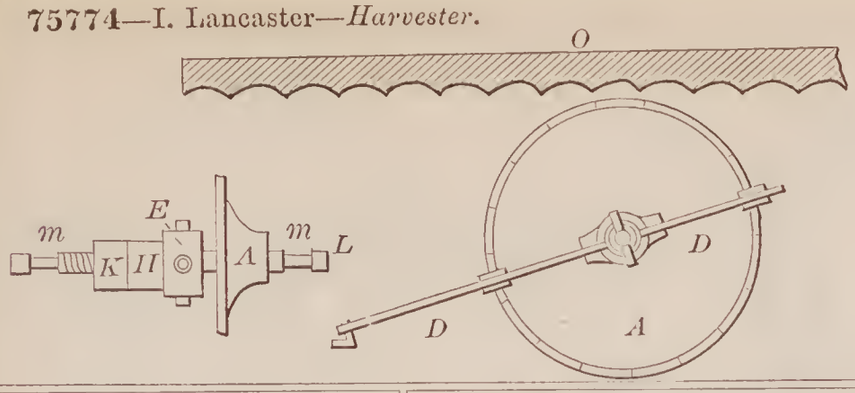
75769—A. Kloman—*Pile for Girder Irons.*

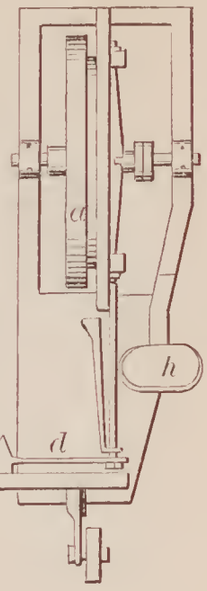


75772—W. Lamb—*Churn.*

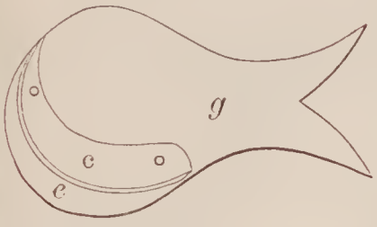


75774—I. Lancaster—*Harvester.*

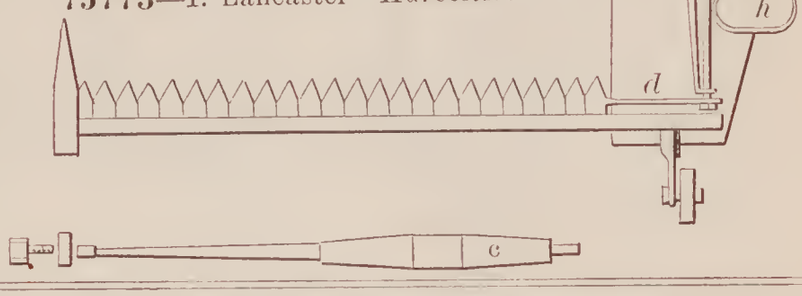




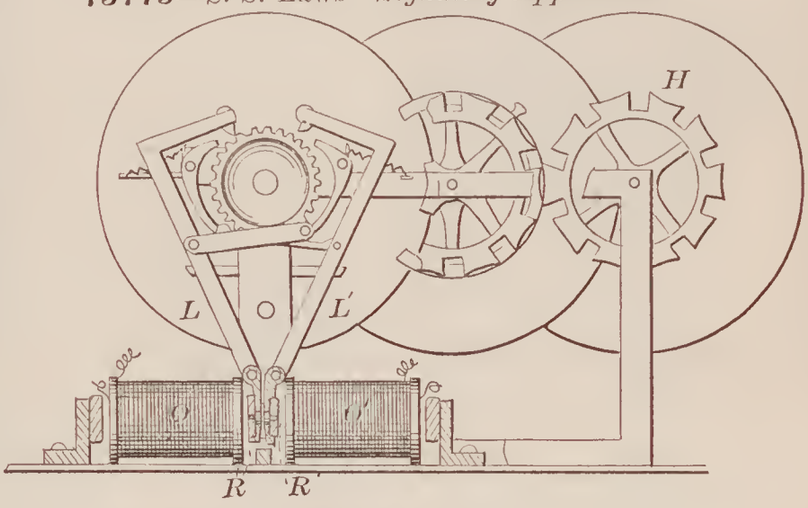
75779—G. I. Mason—*Heel Seat.*

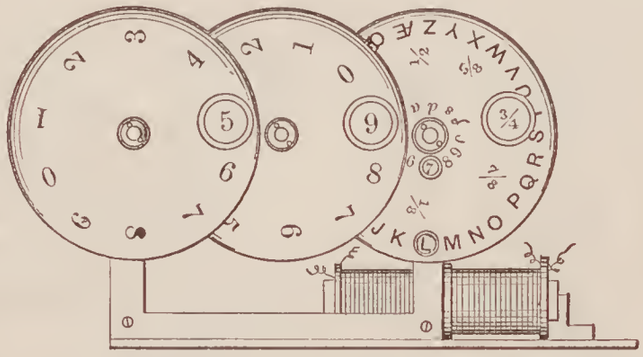


75773—I. Lancaster—*Harvester.*



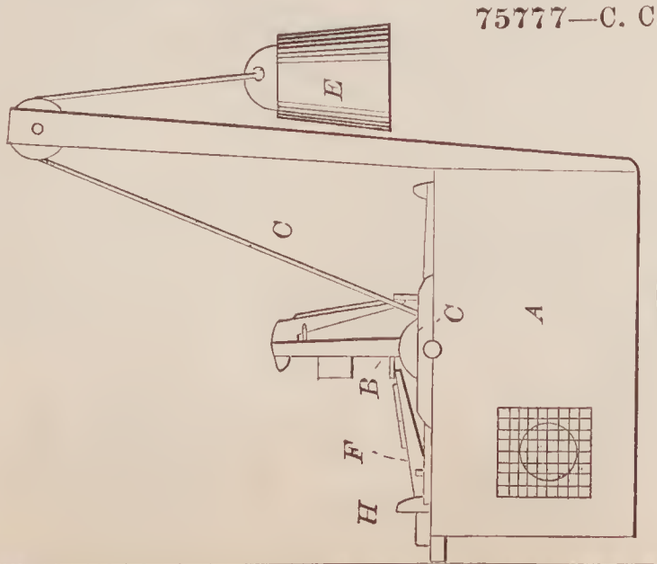
75775—S. S. Laws—*Signaling Apparatus.*

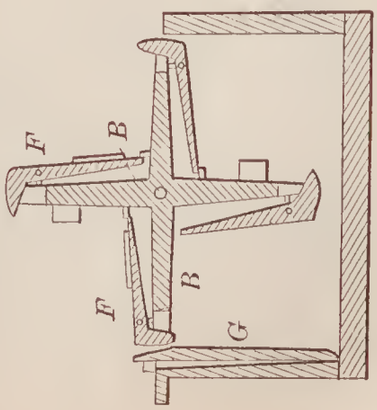




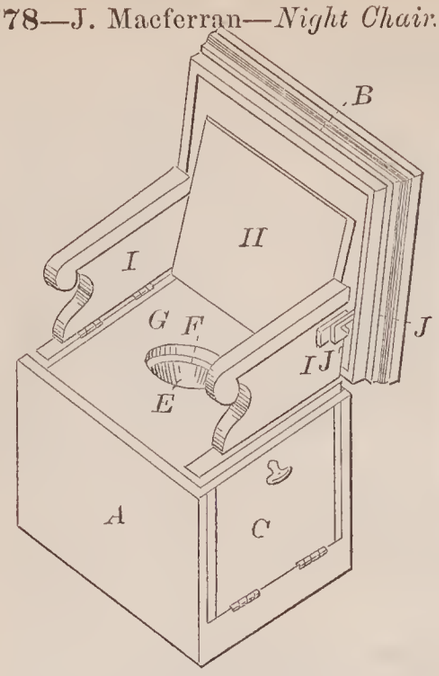
75780—H. McDougall—*Wooden Pavement.*

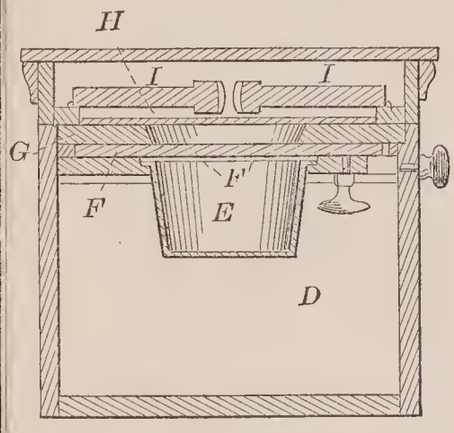
75777—C. C. Lyman—*Animal Trap.*



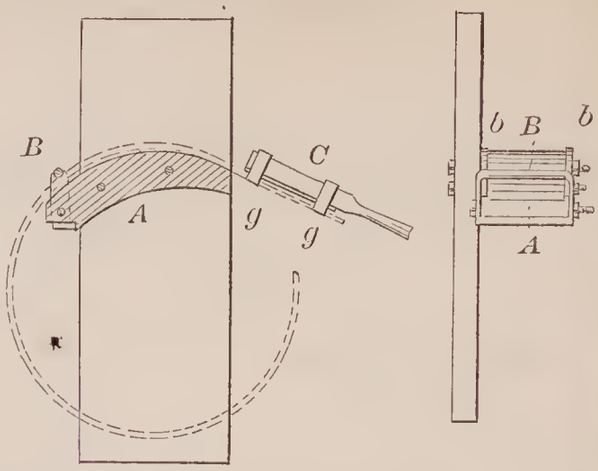


75778—J. Macferran—*Night Chair.*

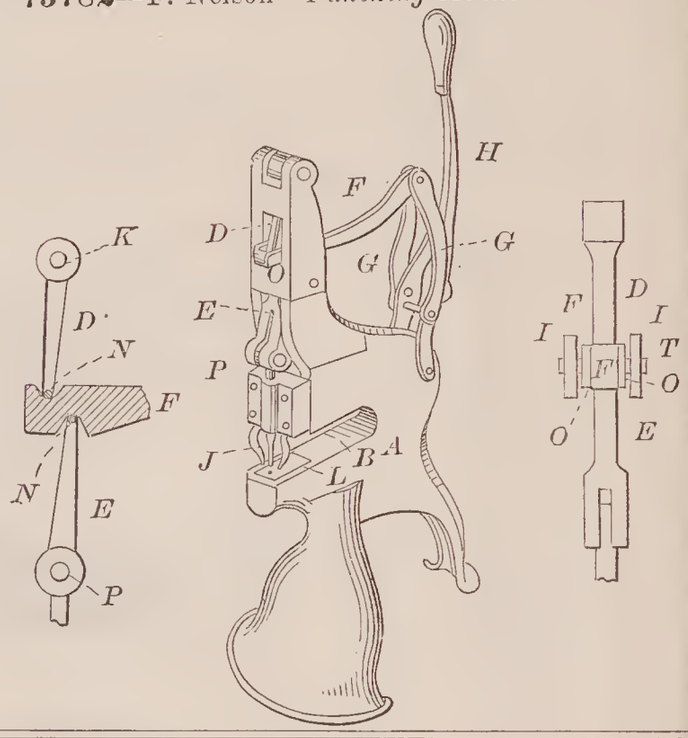




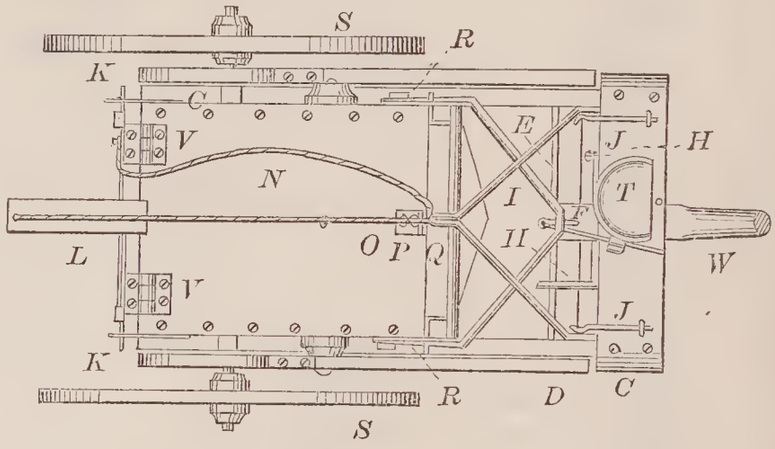
75781—J. Naylor—*For Bending Tires.*

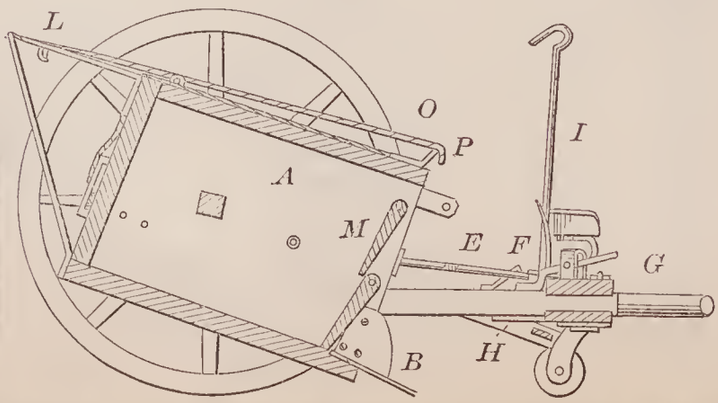


75782—F. Nelson—*Punching Machine.*

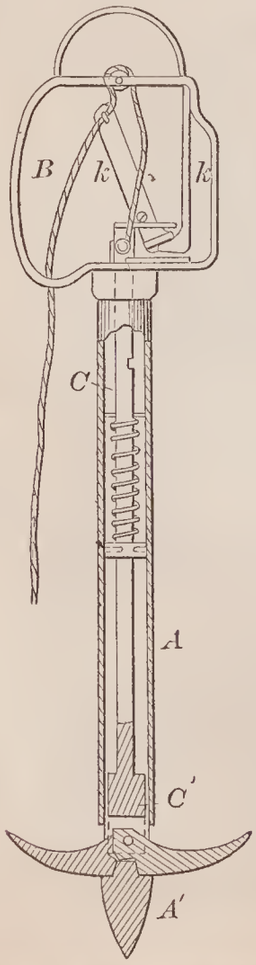


75783—W. T. Nichols—*Excavator.*

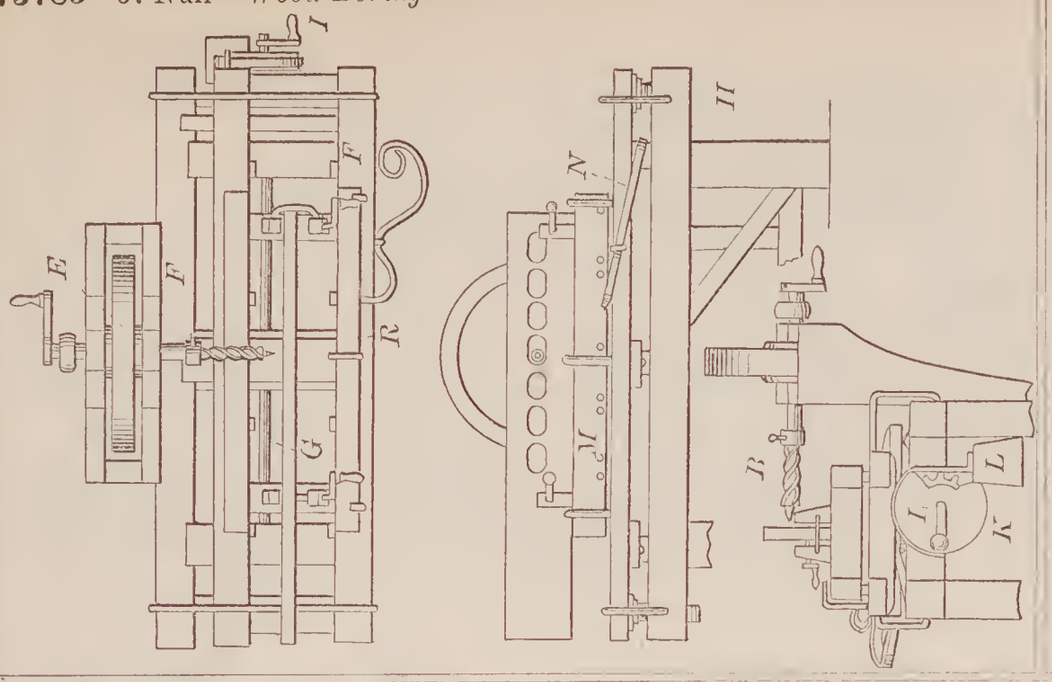




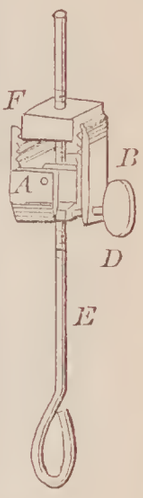
75786—O. Paddock—*Horse Hay Fork.*



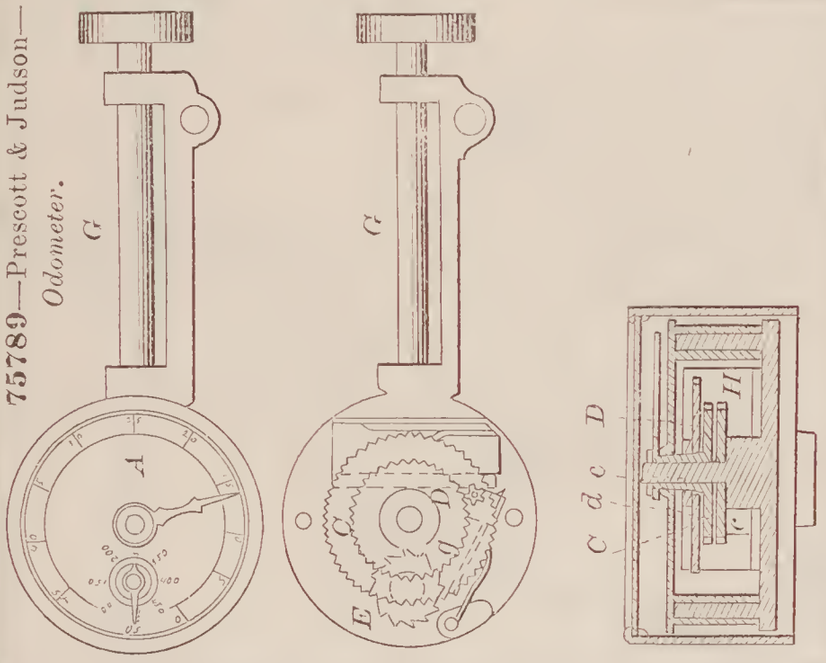
75785—J. Null—*Wood Boring Machine.*



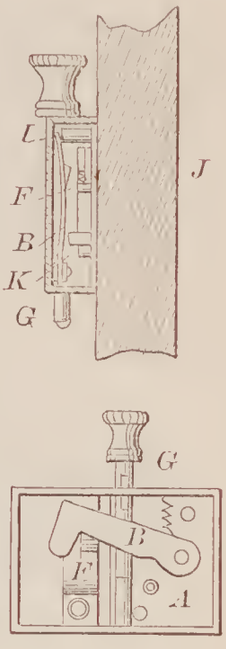
75784—B. S. Norris—*Boot Crimping Screw.*



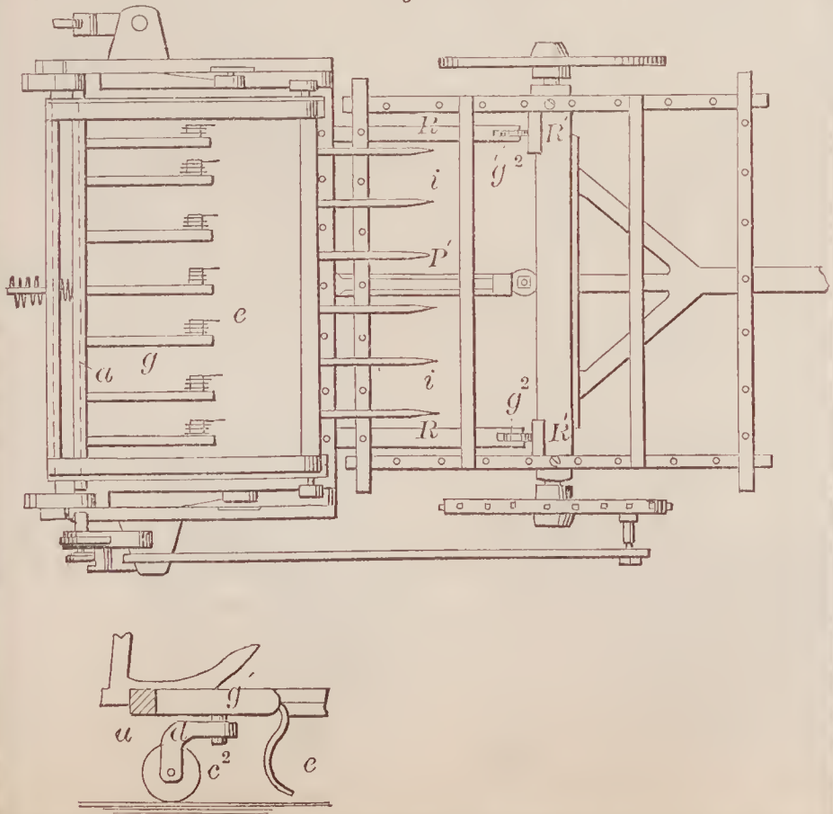
75789—Prescott & Judson—*Odometer.*



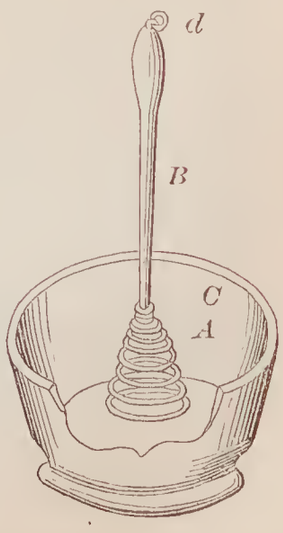
75788—Pipo & Walbaum—*Shutter Fastening.*



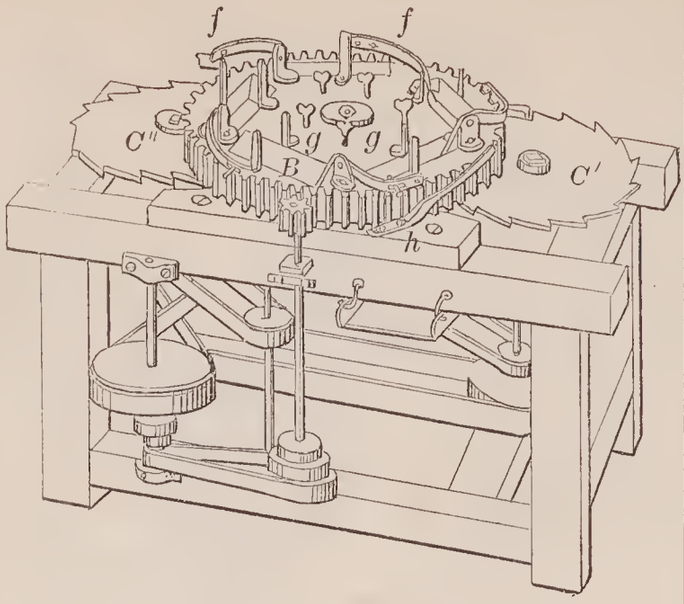
75790—A. J. Preston—*Hay Raker and Loader.*

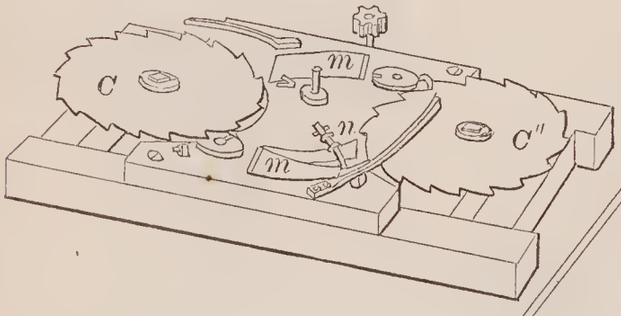


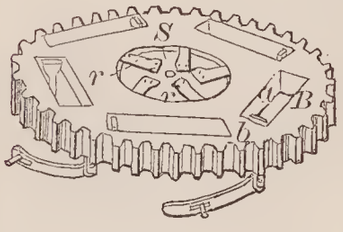
75787—W. H Peirce—*Egg Beater.*



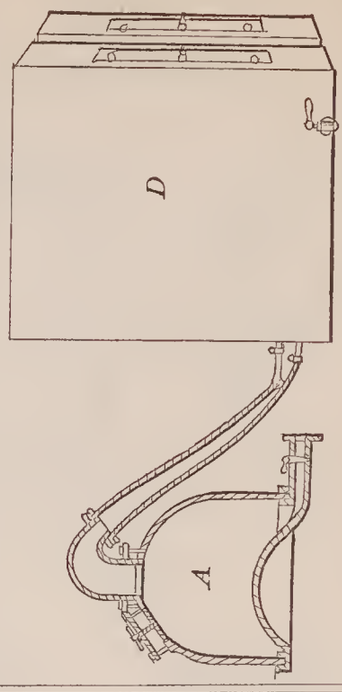
75793—A. G. Ritz—*Shingle Machine.*



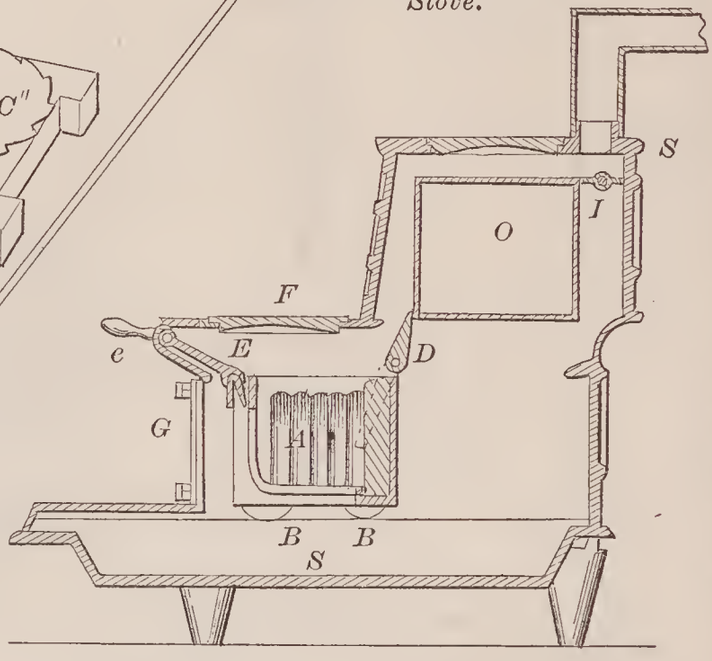




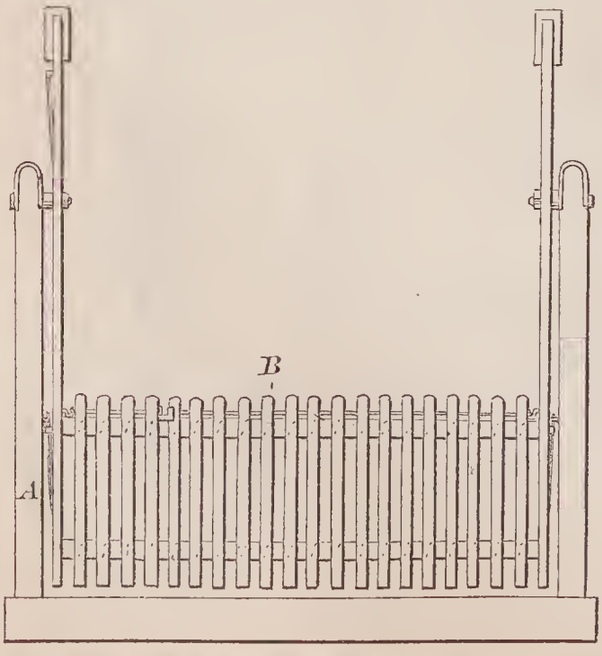
75794—L. S. Robbins—*Preserving Animal Skins.*



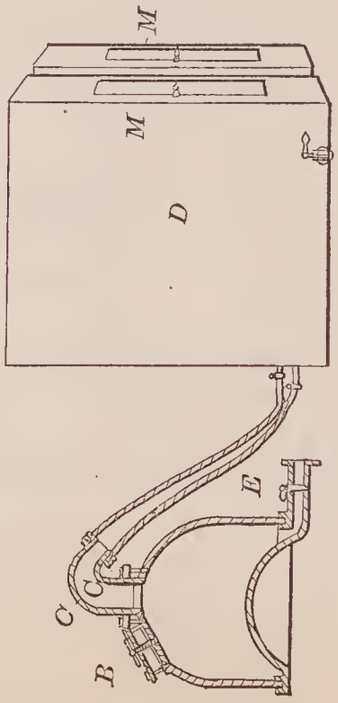
75791—L. T. Pyott—*Cooking Stove.*



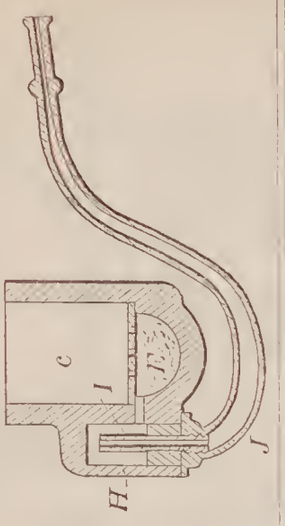
75792—W. W. Riley—*Gate.*



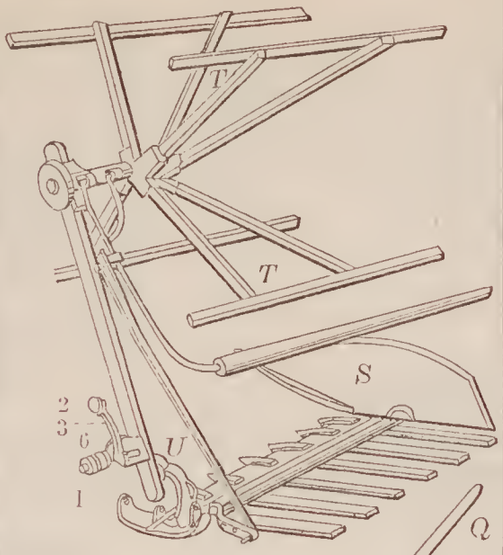
75795—L. S. Robbins—*Oiling Leather.*



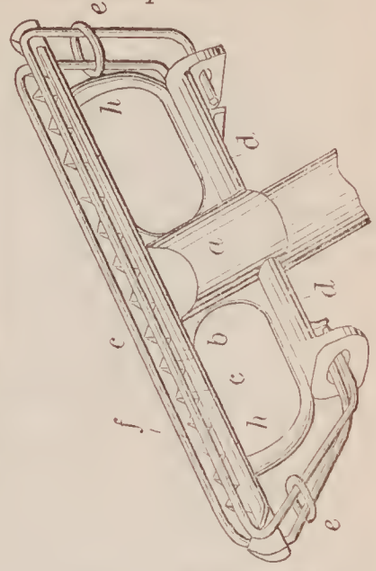
75799—F. Saunders—*Smoking Pipe.*

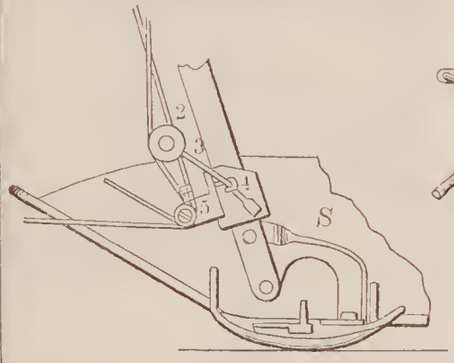


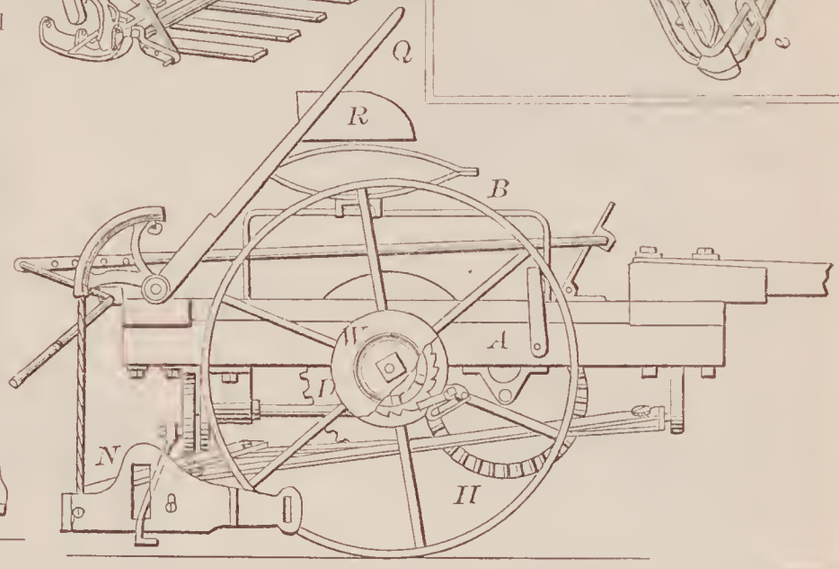
75797—Russell & Miller—*Harvester.*



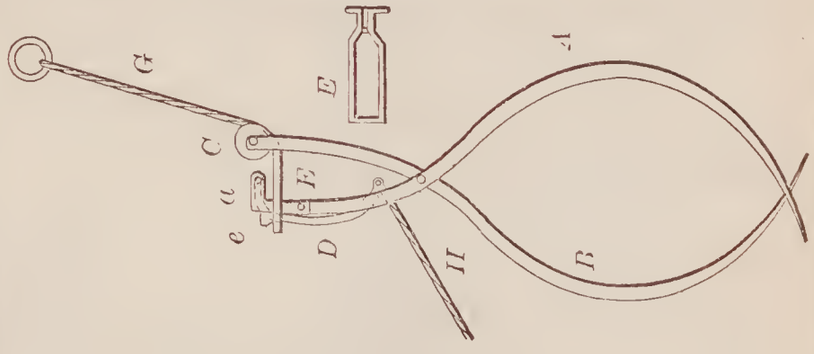
75796—W. A. Robinson—*Mop Head.*



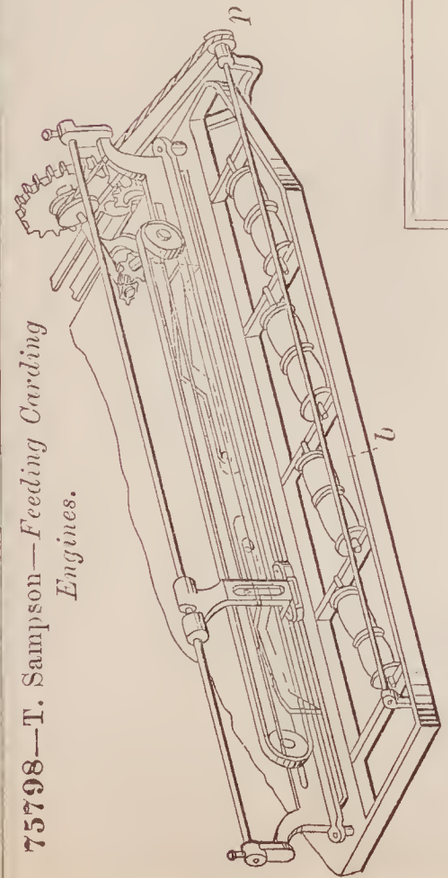




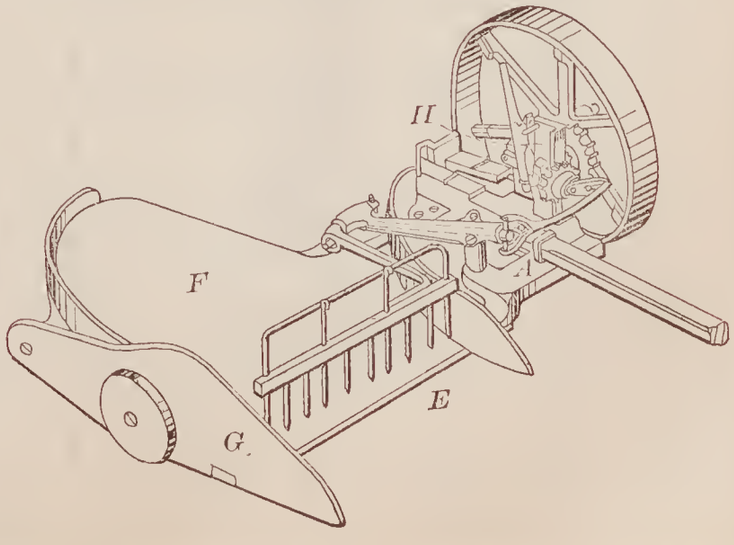
75800—W. Scholl—*Horse Hay Fork.*



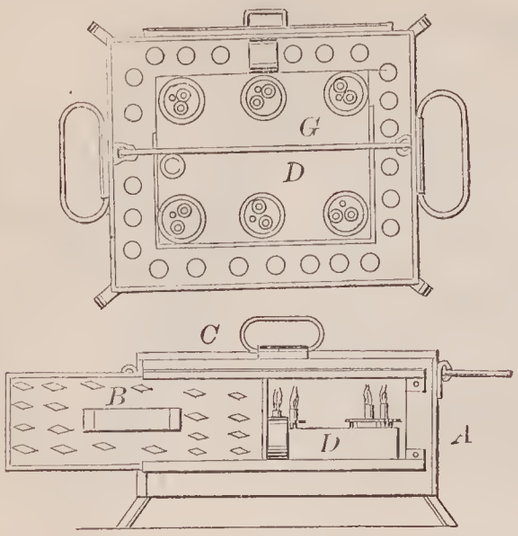
75798—T. Sampson—*Feeding Carding Engines.*



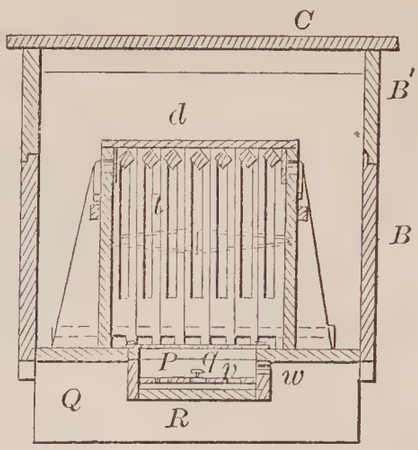
75801—Seymour & Palmer—*Harvester Rake.*



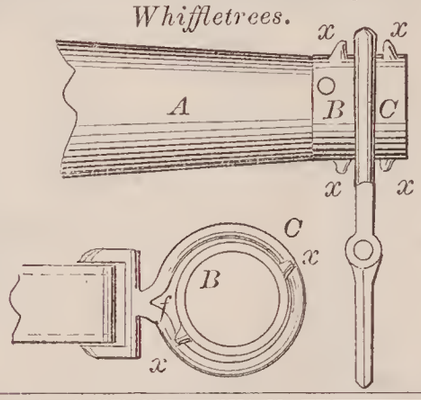
75802—E. Small—*Heater, Lamp and Foot Warmer.*



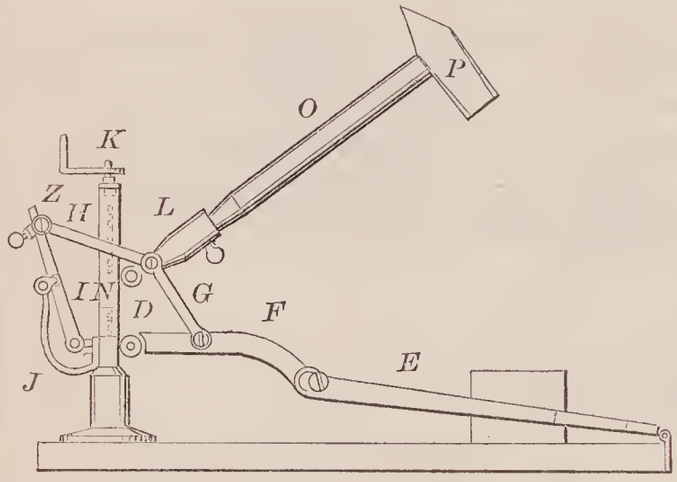
75804—M. S. Snow—*Beehive.*



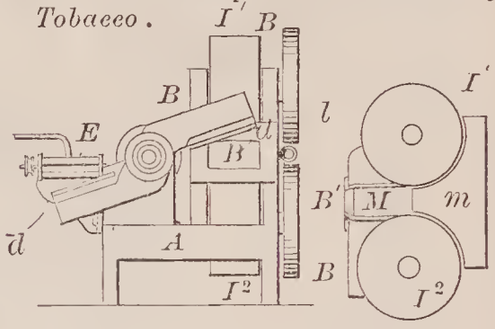
75803—S. Smith—*Attaching Traces to Whiffletrees.*



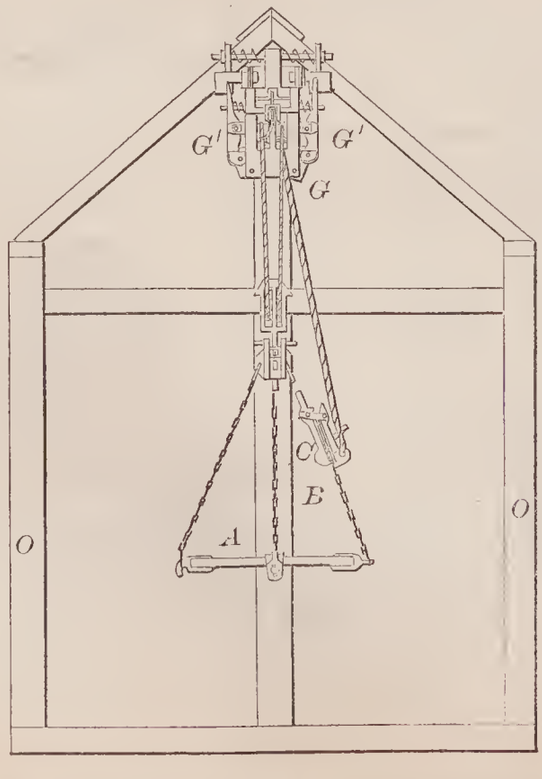
75808—A. Strube—*Power Hammer.*

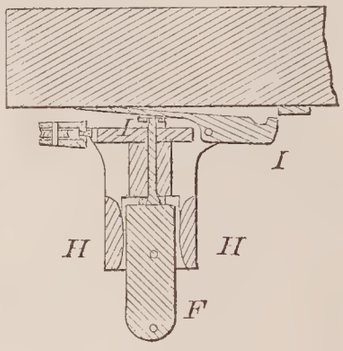


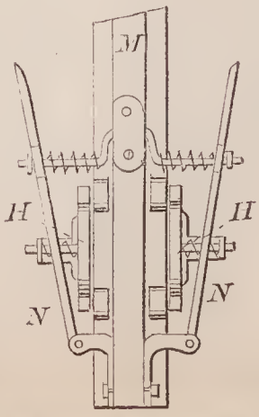
75805—L. W. Spencer—*For Cutting Tobacco.*



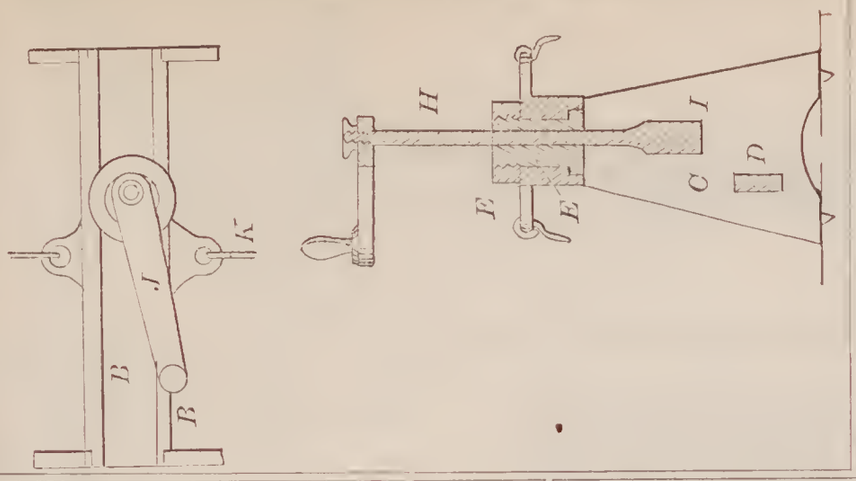
75810—J. B. Summerill—*Hay Elevator.*



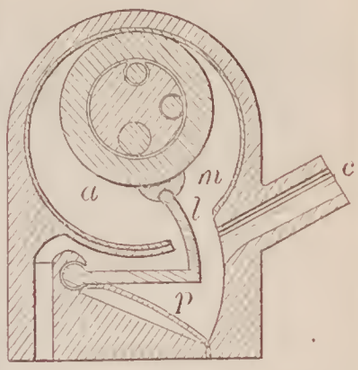




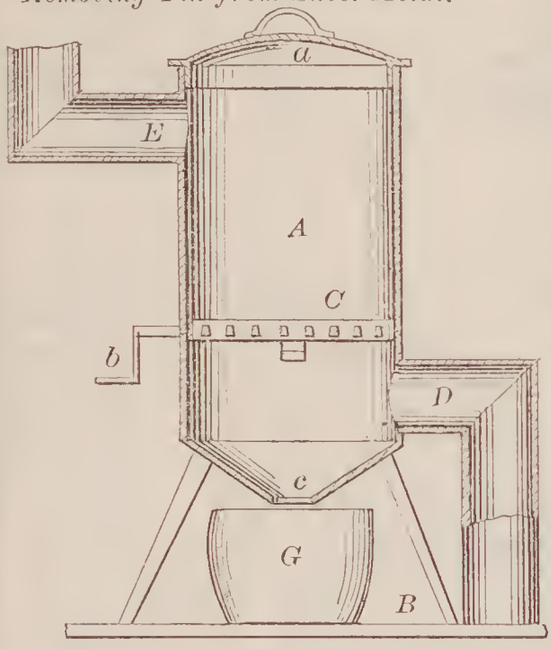
75813—J. B. Thorp—*Wood Boring Machine.*



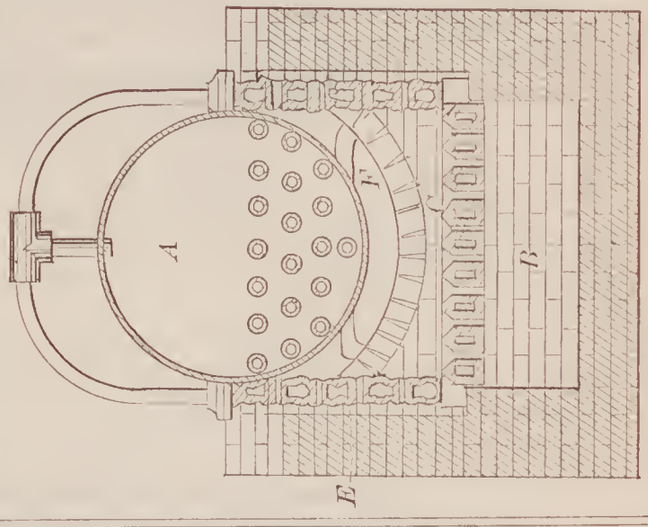
75811—J. A. Talpey—*Rotary Pump.*



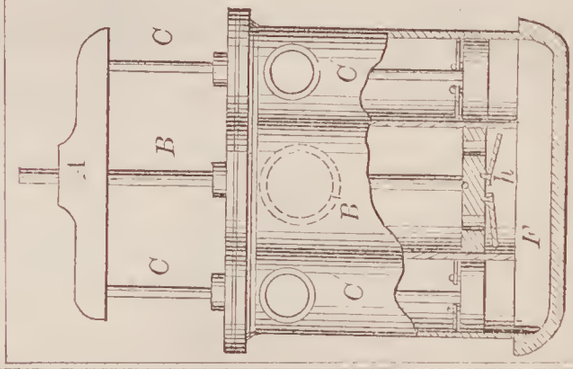
75809—Sturdevant & Harmon—*Removing Tin from Sheet Metal.*



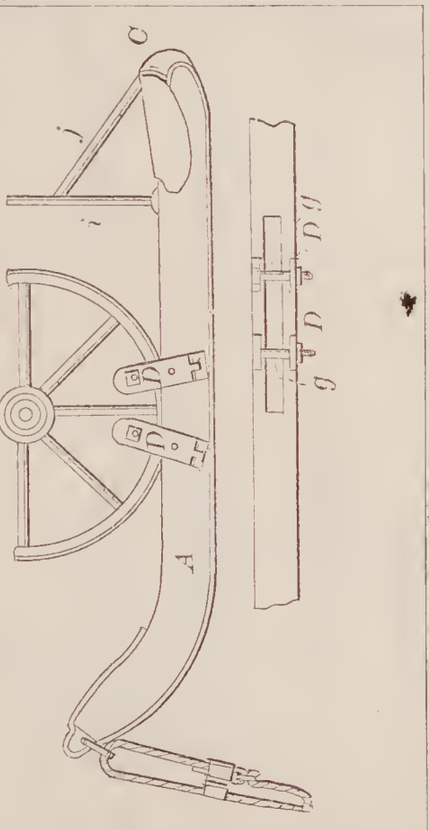
75817—R. L. Walker—*Steam Boiler Furnace.*



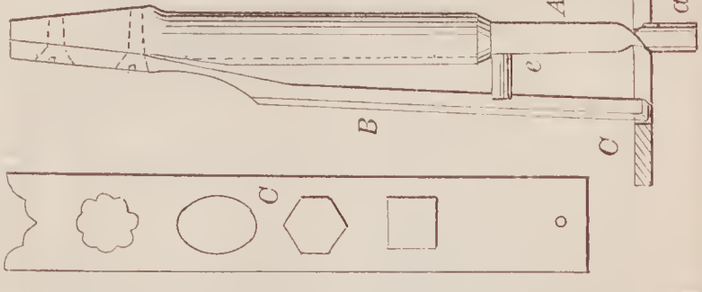
75819—S. White—*Pump.*



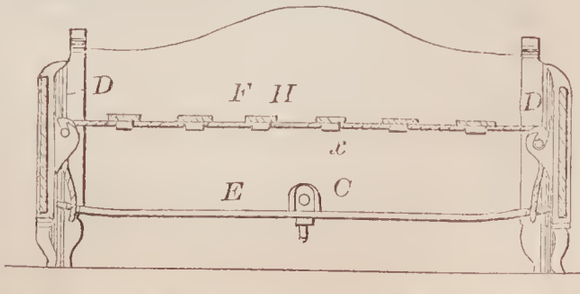
75812—B. Thompson—*Runner for Wheeled Vehicles.*



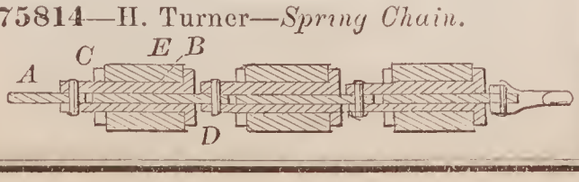
75816—F. Vester—*Drill.*



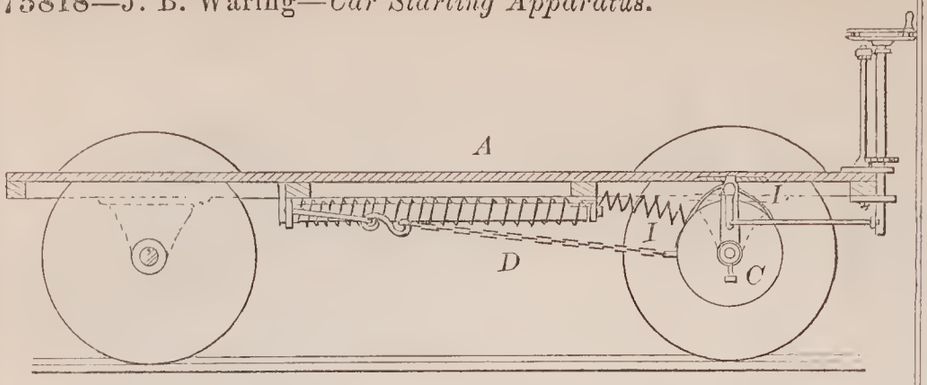
75820—J. D. Wilkinson—*Bed Bottom.*

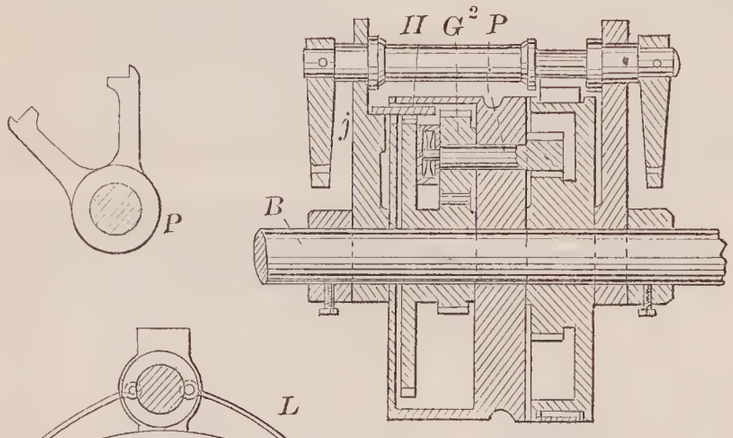


75814—H. Turner—*Spring Chain.*

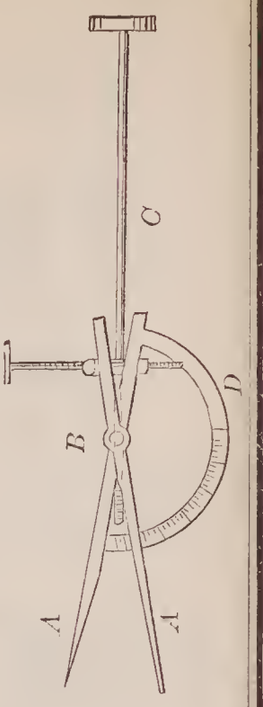


75818—J. B. Waring—*Car Starting Apparatus.*

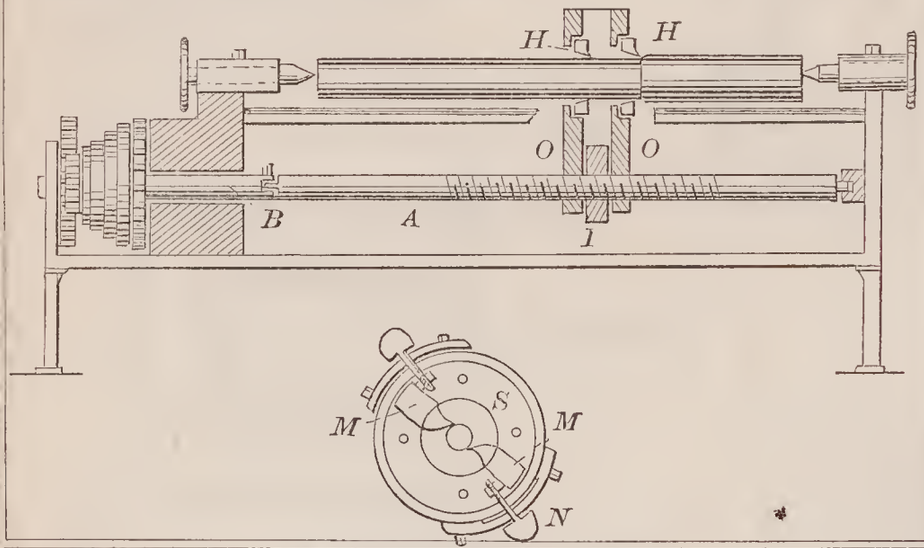




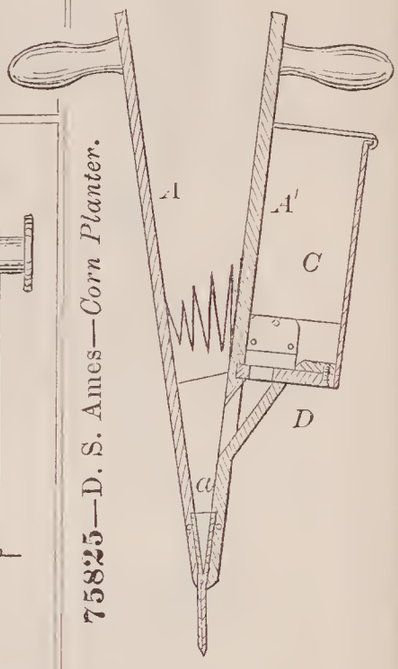
75824—Achelis & Poppenhusen—*For Measuring Distances.*



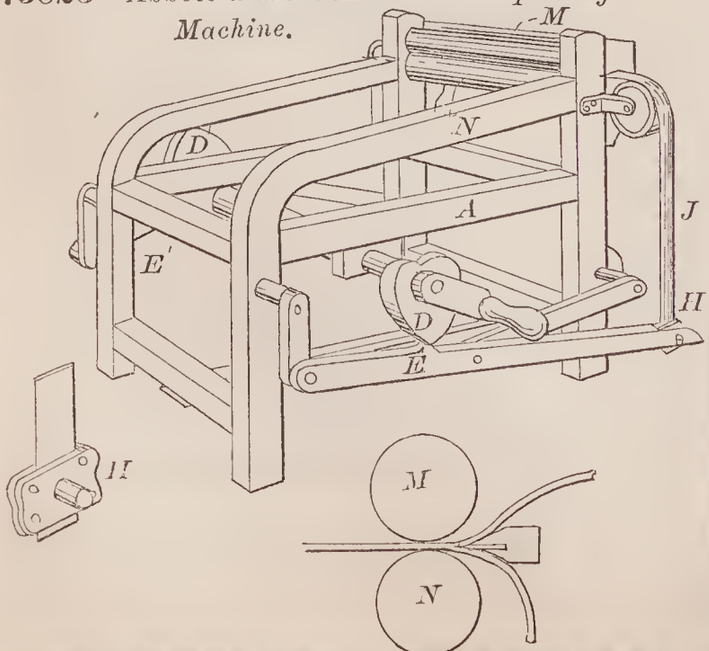
75822—F. Zibell—*Turning Lathe.*



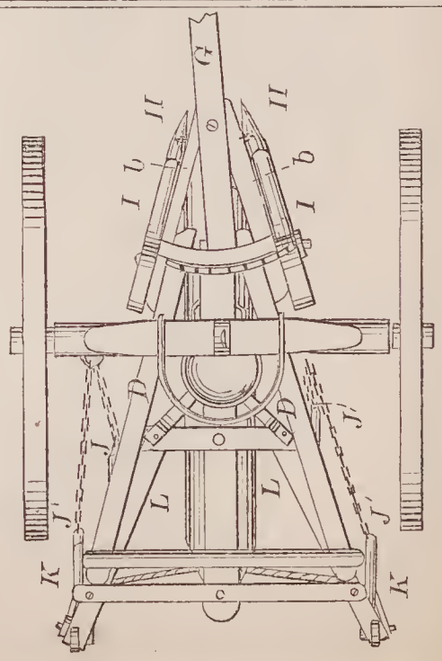
75825—D. S. Ames—*Corn Planter.*



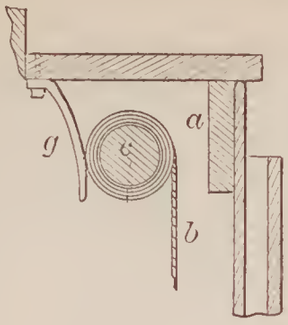
75823—Abbott & Marden—*Leather Splitting Machine.*



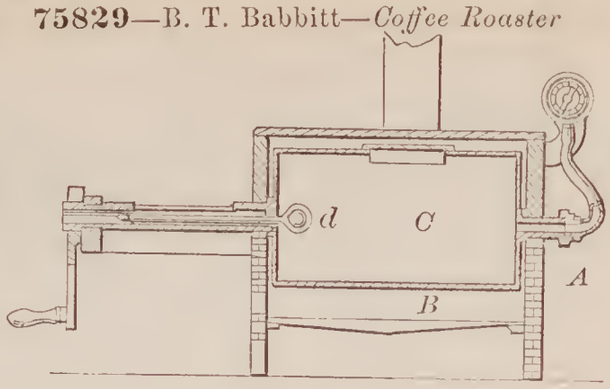
75826—B. Anyan—*Cultivator.*



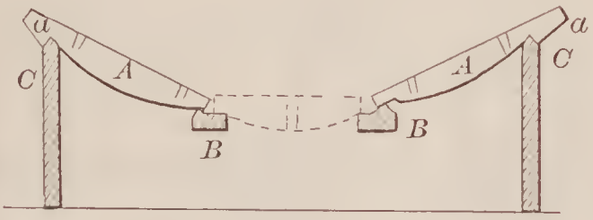
75821—A. Young—*Curtain Fixture.*



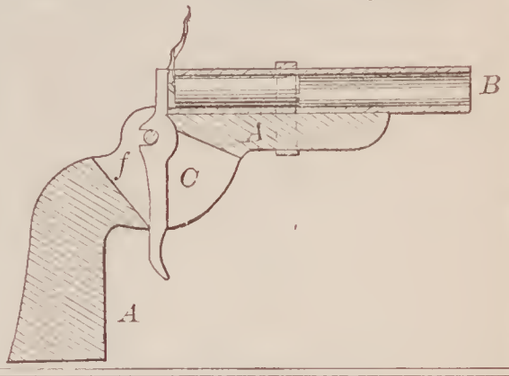
75829—B. T. Babbitt—*Coffee Roaster*



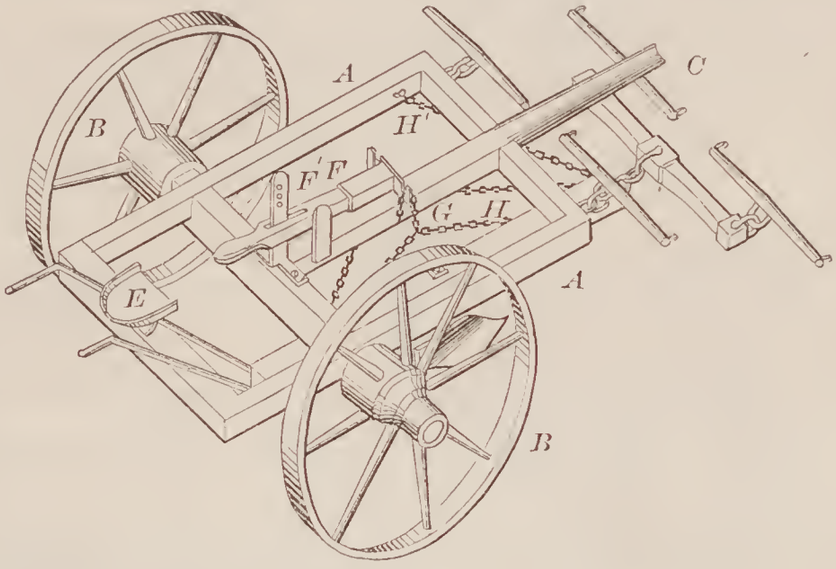
75830—J. L. Babbitt—*Gate.*



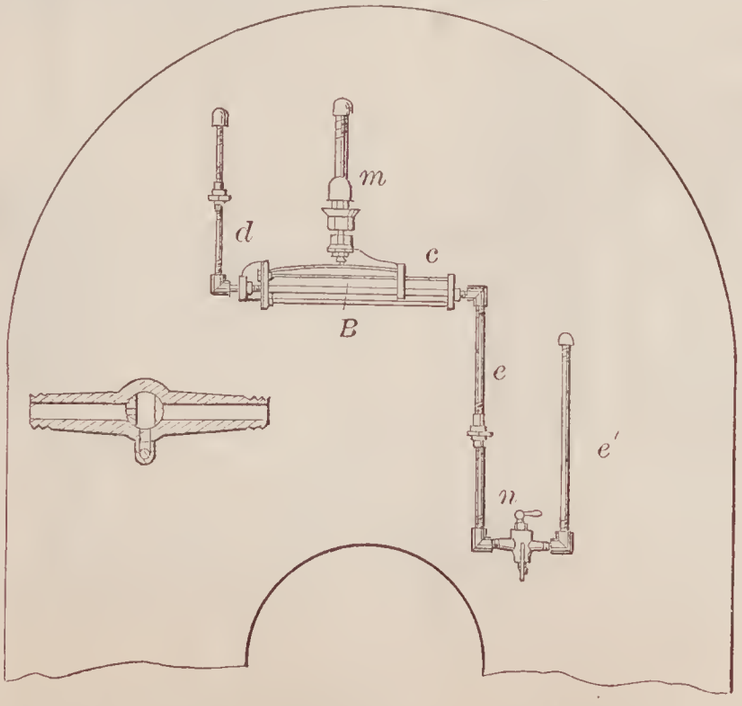
75831—J. W. Bailey—*Toy Pistol.*



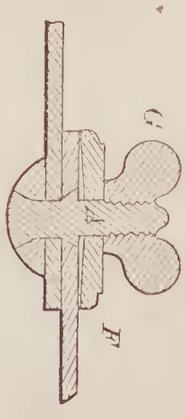
75832—C. N. Bakewell—*Sulky Plow and Harrow.*



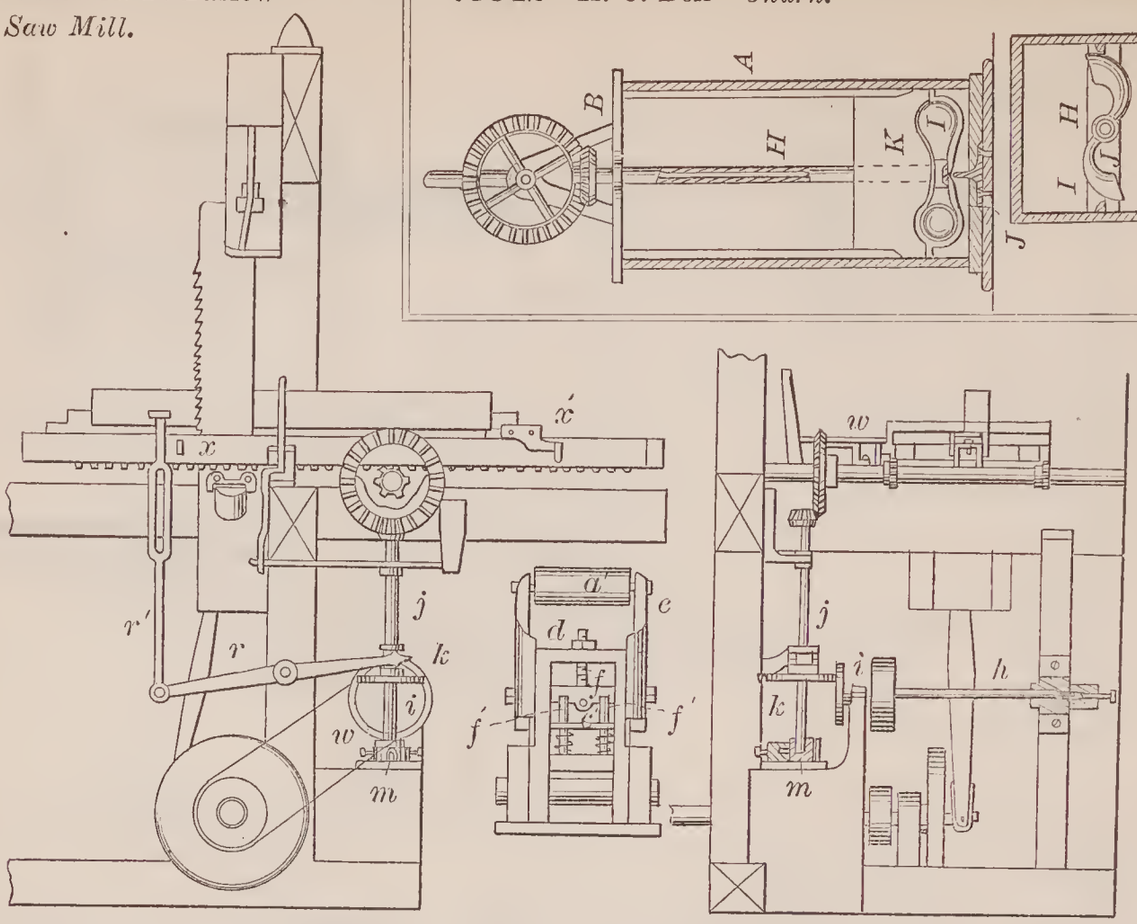
75833—T. C. Banks—*Boiler Alarm Gauge.*



75827—J. Atkins—*Calipers.*

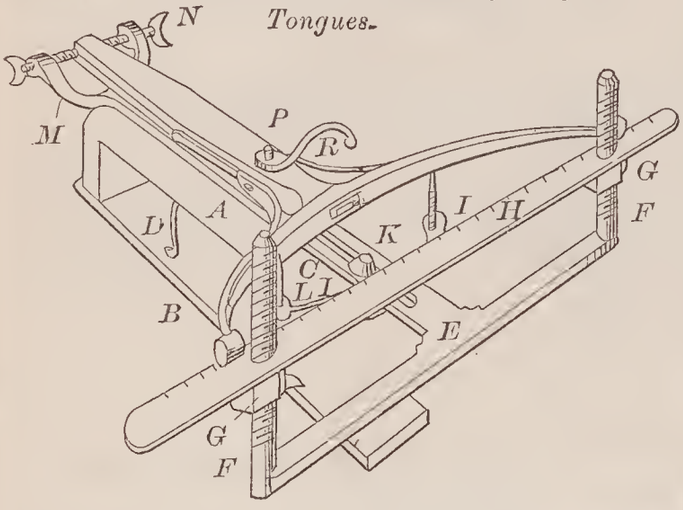


75834—A. P. Barlow—*Saw Mill.*

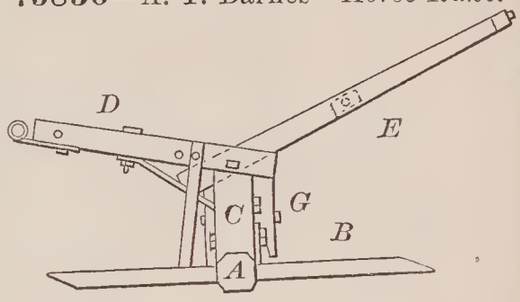


75842—H. C. Bell—*Churn.*

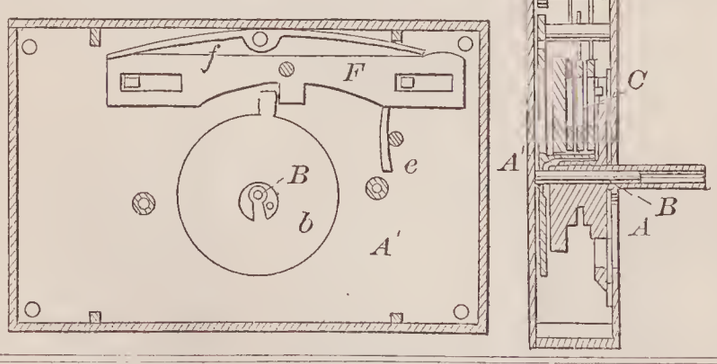
75840—A. J. Beach—*For Working Wagon Tongues.*



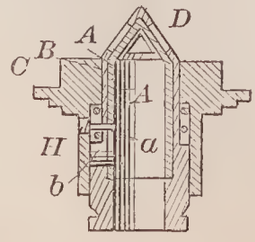
75836—A. T. Barnes—*Horse Rake.*

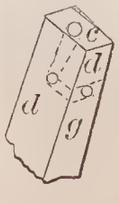


75838—F. H. Bartholomew—*Door Lock.*

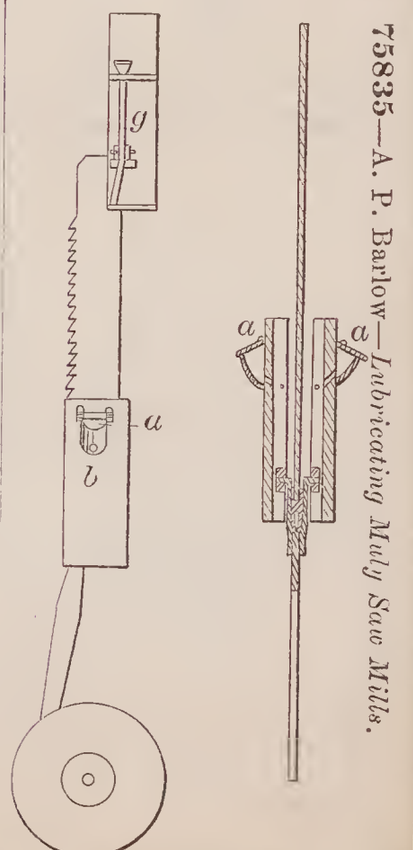


75839—H. C. Bascom—*Powder Flask Charger.*

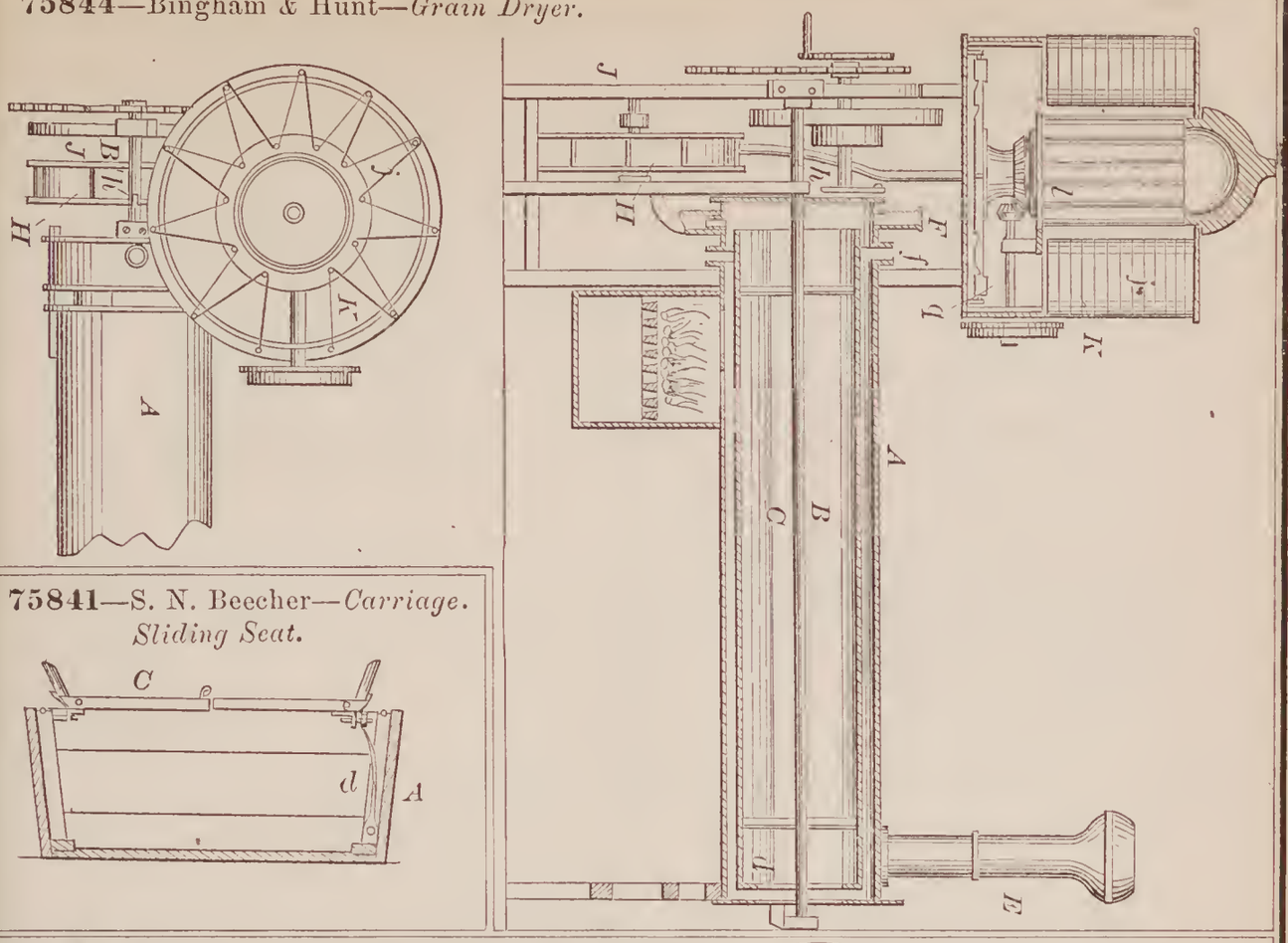




75835—A. P. Barlow—*Lubricating Muly Saw Mills.*

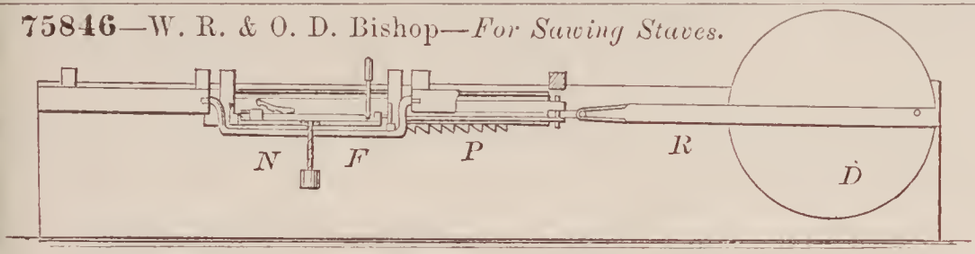


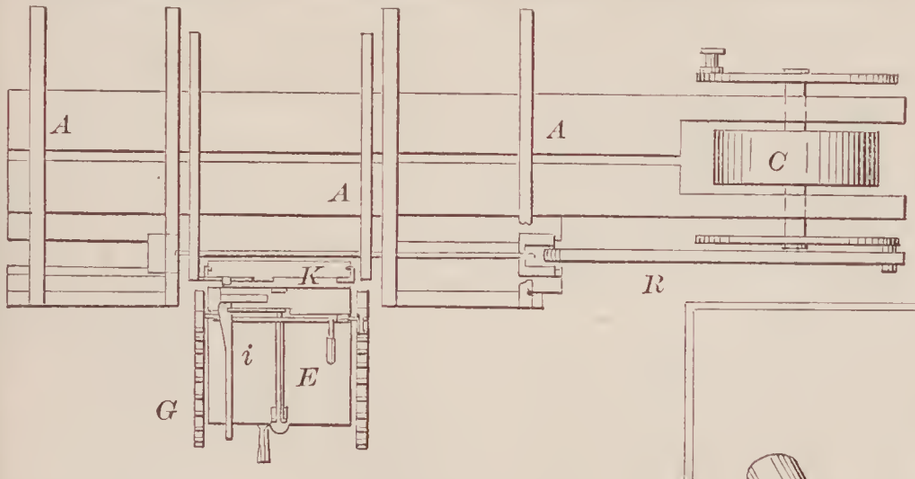
75844—Bingham & Hunt—*Grain Dryer.*



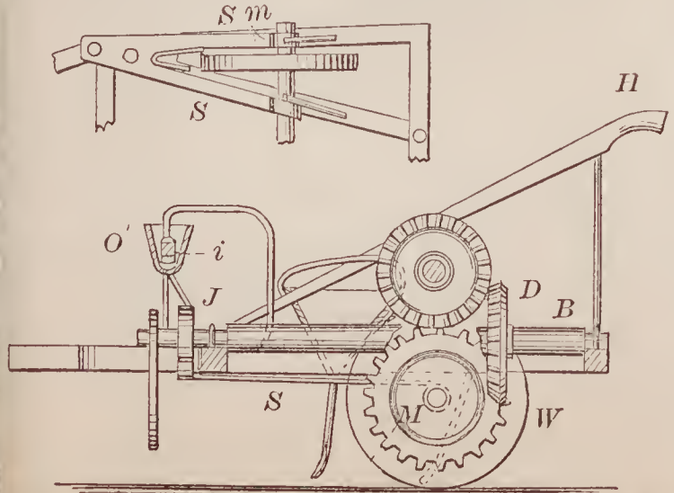
75841—S. N. Beecher—*Carriage. Sliding Seat.*

75846—W. R. & O. D. Bishop—*For Sawing Staves.*

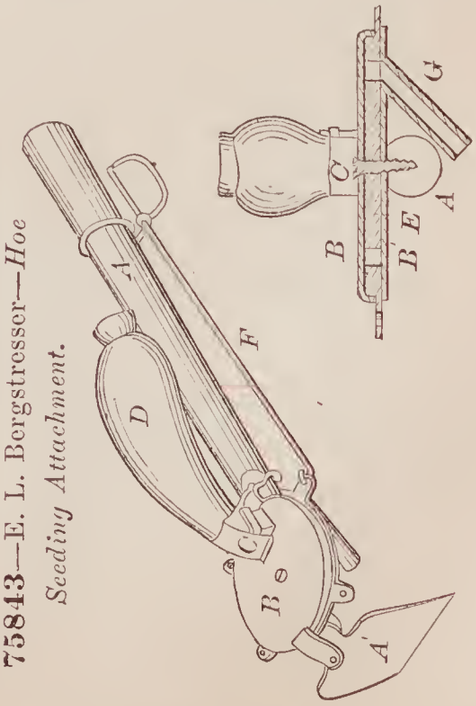




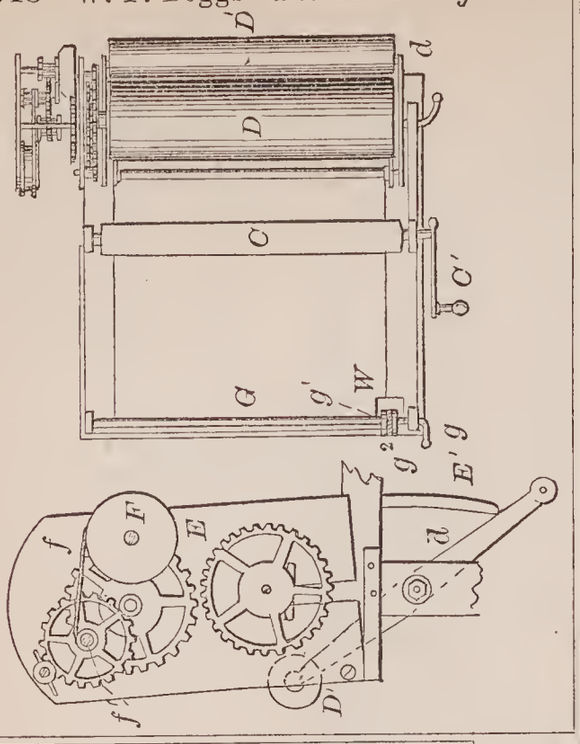
75845—L. Bishop—*Cultivator and Seeder.*



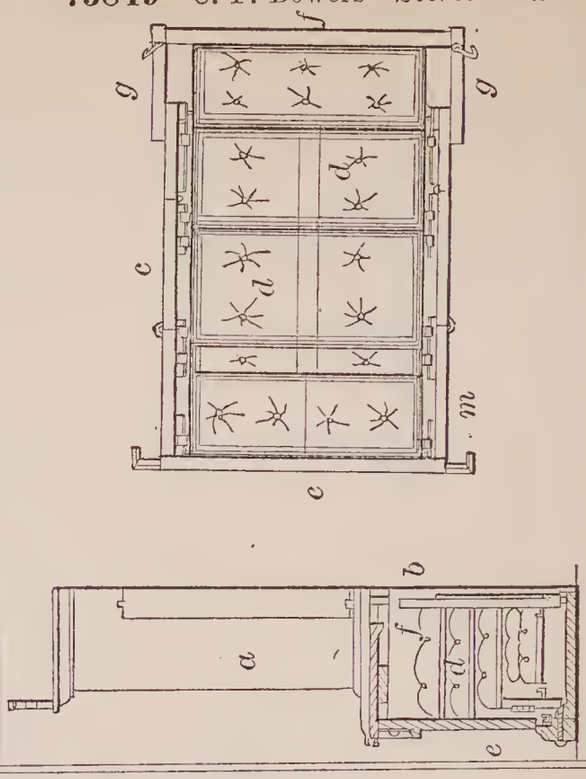
75843—E. L. Borgstresser—*Hoe Seeding Attachment.*



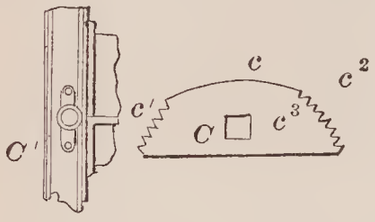
75848—W. F. Boggs—*For Measuring Cloth.*



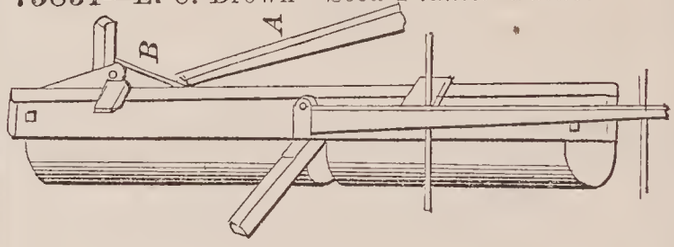
75849—C. F. Bowers—*Secret Bed.*



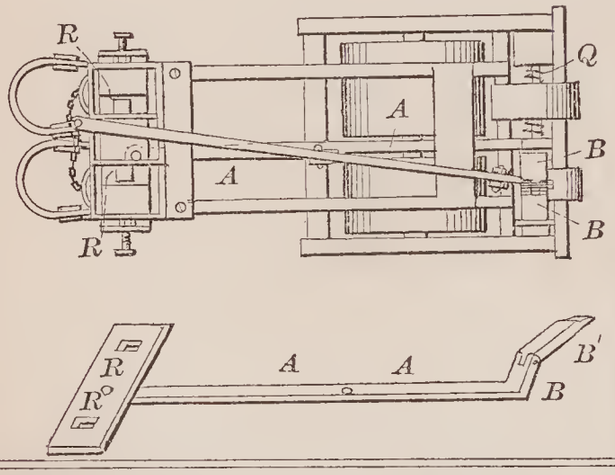
75852—R. E. Buchanan—*Sash Stop.*



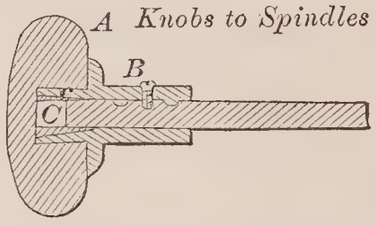
75851—E. C. Brown—*Seed Planter Guide.*



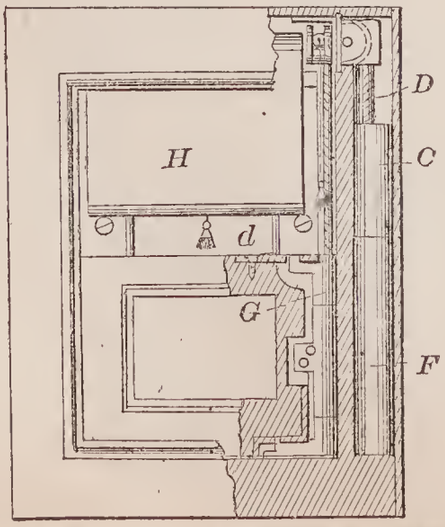
75850—E. C. Brown—*Corn and Seed Planter.*



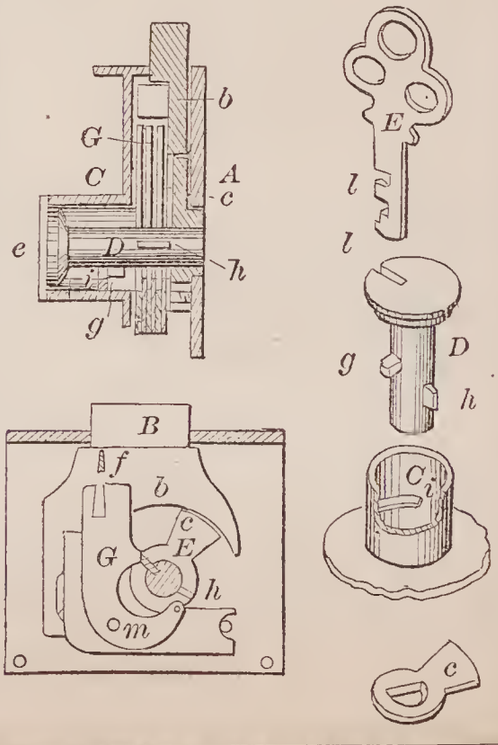
75847—W. Boch—*Attaching Door Knobs to Spindles*



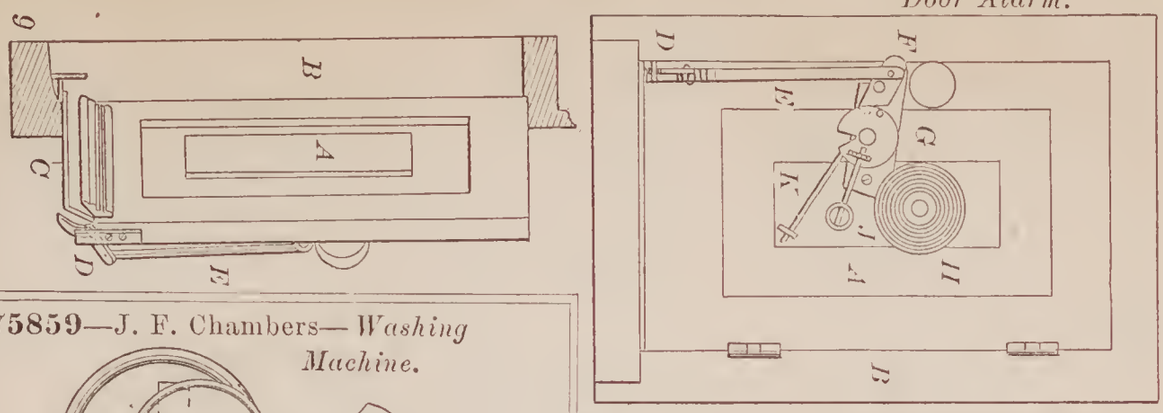
75853—T. Bullivant—*Hanging Window Sashes.*



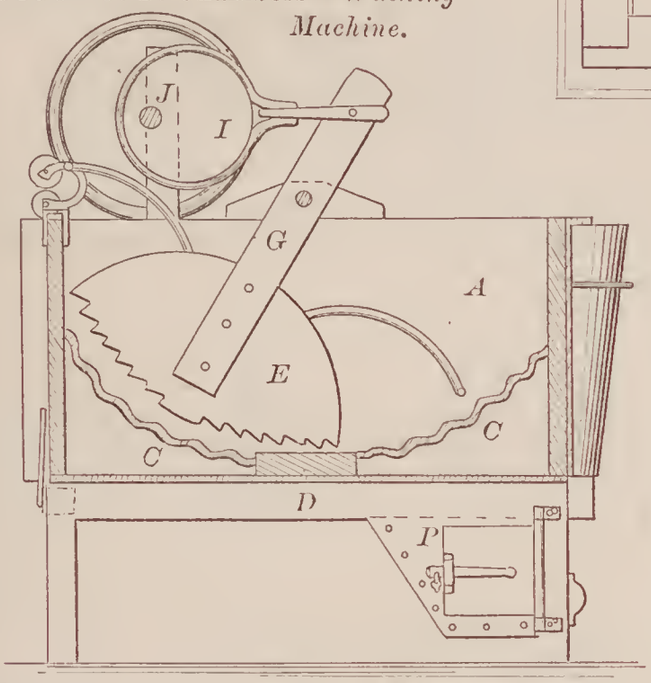
75854—A. G. Burton—*Drawer Lock.*



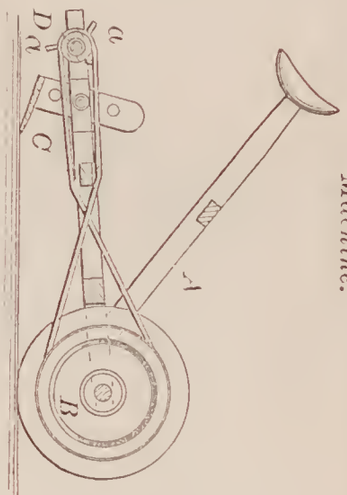
75857—G. W. Carpenter—*Weather Strip and Door Alarm.*



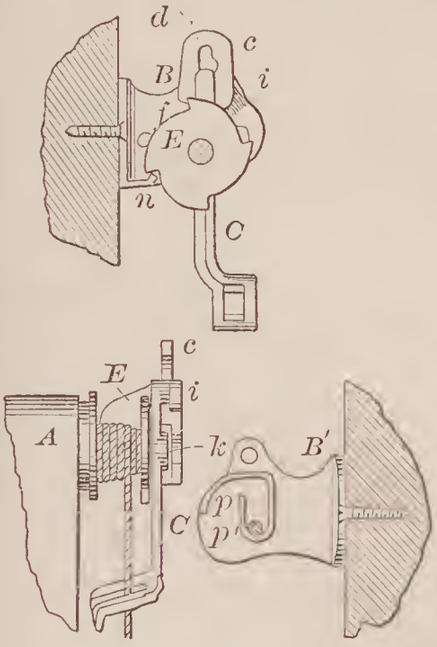
75859—J. F. Chambers—*Washing Machine.*



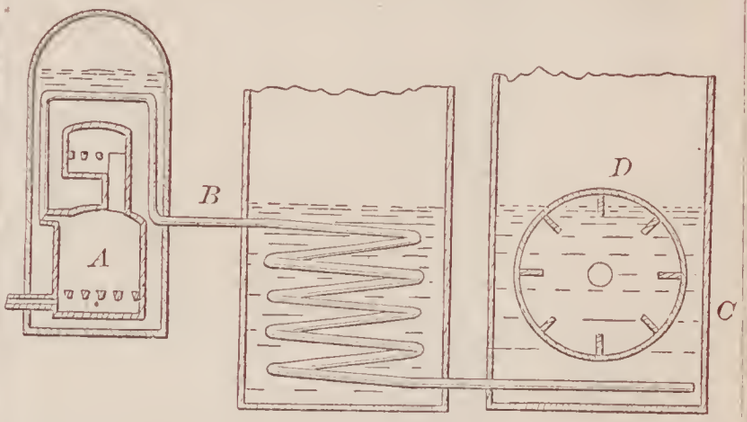
75858—N. & C. Carstens—*Weeding Machine.*



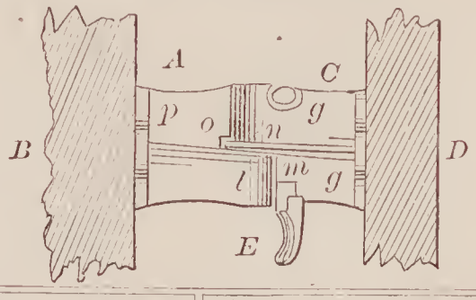
75860—J. Chase—*Curtain Fixture.*



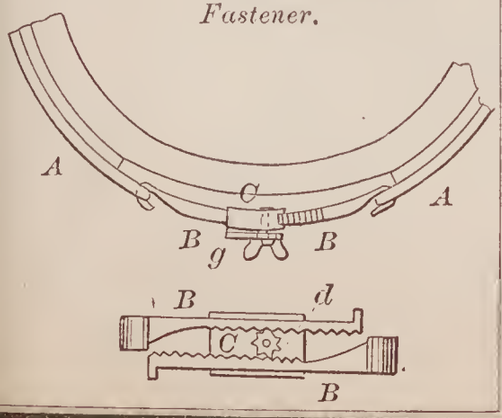
75861—W. W. Chipman—*Manufacture of Whiting.*



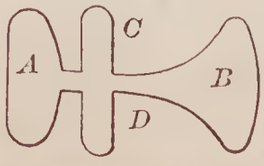
75862—C. B. Clark—*Blind Hinge.*



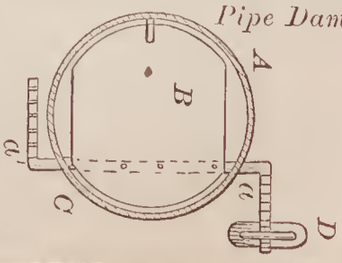
75864—E. A. Cooper—*Hames Fastener.*



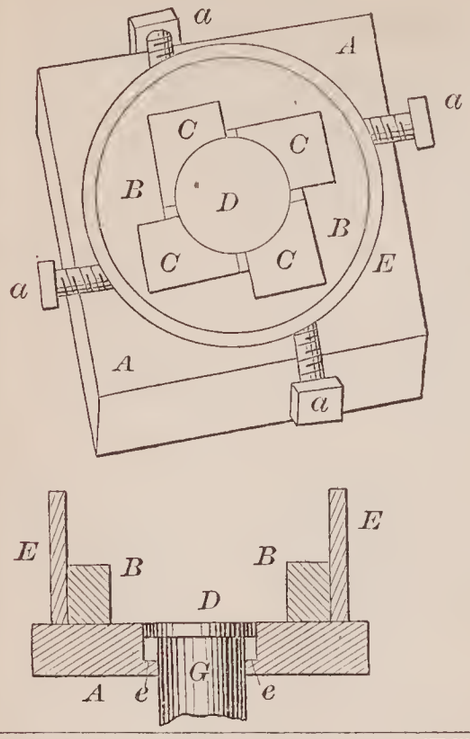
75856—W. B. Cargill—*Corset Clasp.*



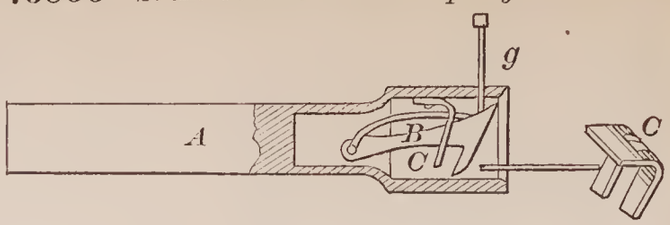
75863—A. Cotton—*Stove Pipe Damper.*



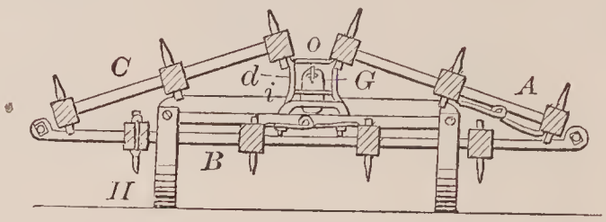
75865—C. Corbit—*Mill Step.*



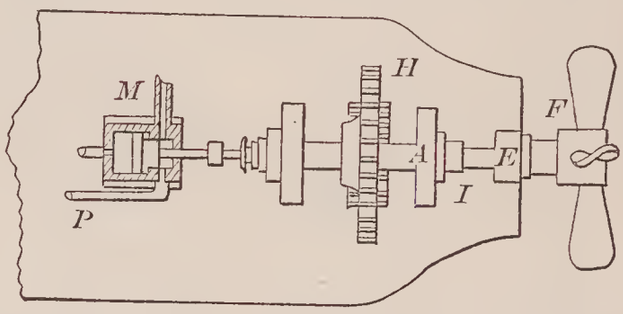
75866—S. H. Cowles—*Car Coupling.*



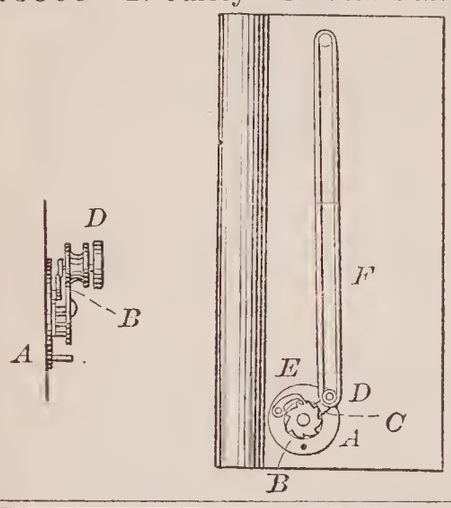
75867—I. Crum—*Harrow.*



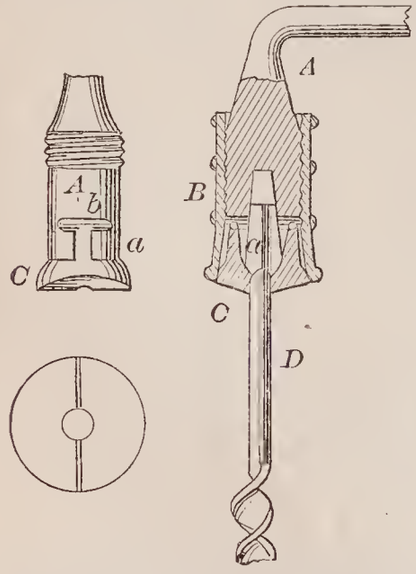
75868—J. B. Cullen—*Marine Steam Governor.*



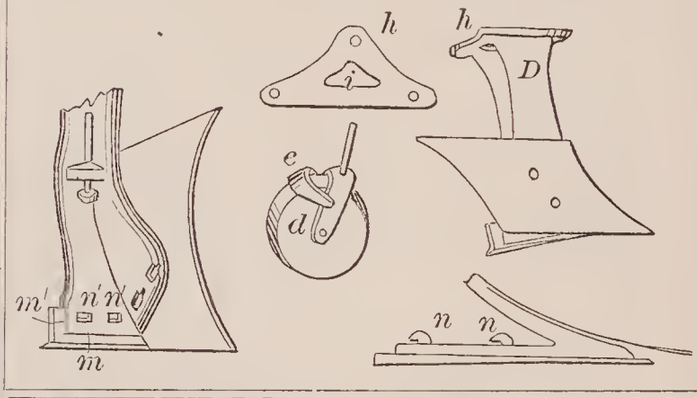
75869—T. Curley—*Curtain Fixture.*



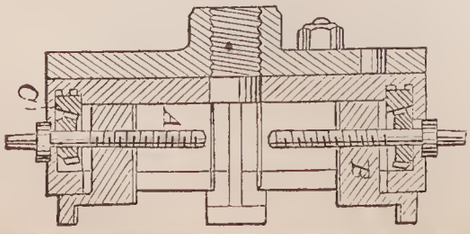
75870—C. M. Daboll—*Bit Brace.*



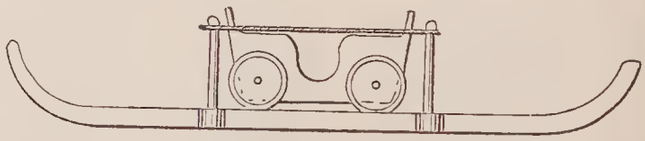
75871—G. J. Dahl—*Gang Plow.*



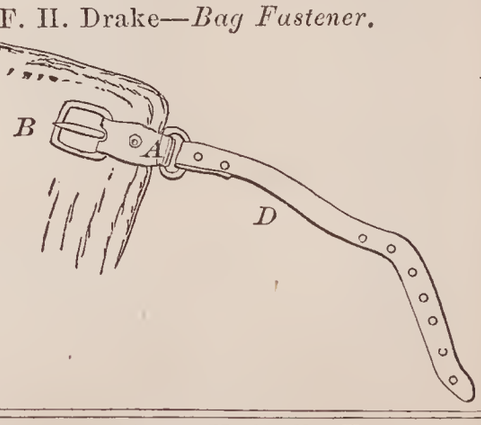
75872—F. Davison—*Lathe Chuck.*



75876—B. Douglas—*Toy Railroad.*

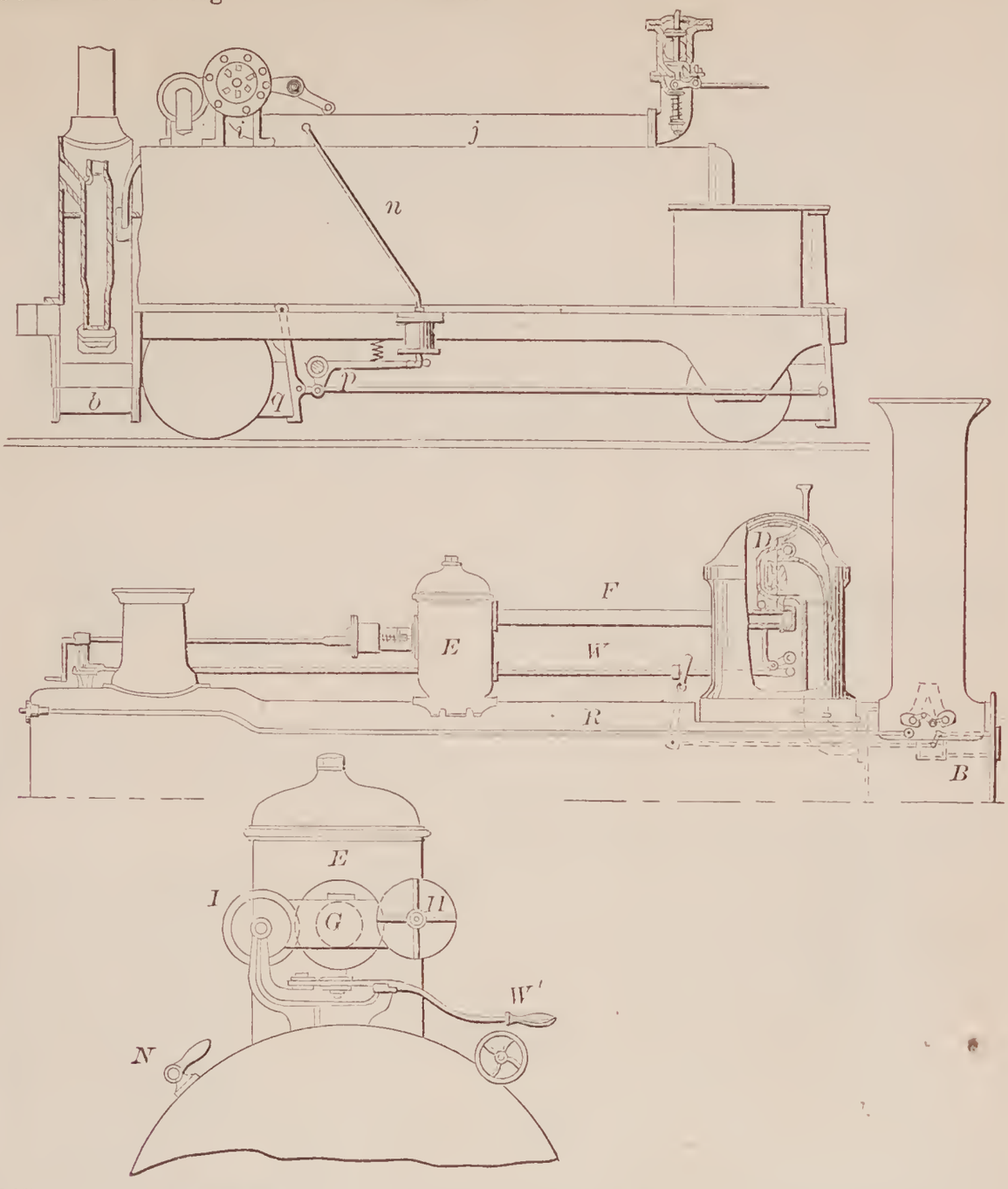


75877—F. H. Drake—*Bag Fastener.*

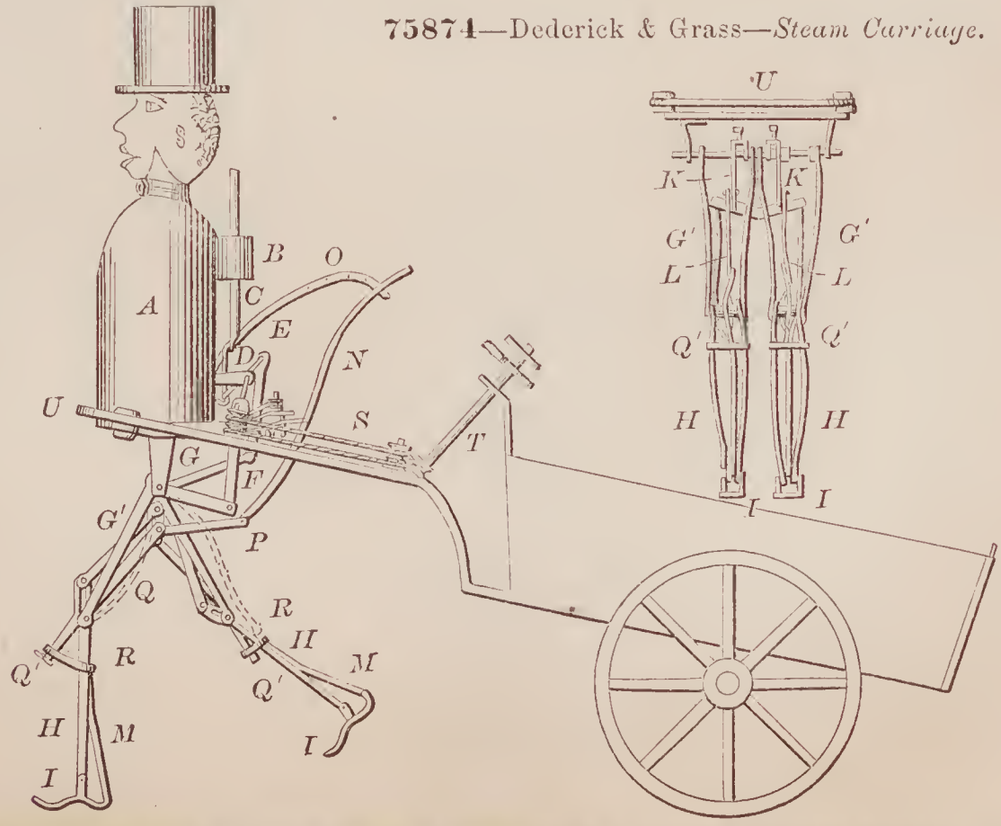


75875—J. M. Doubleday—*Umbrella Frame.*

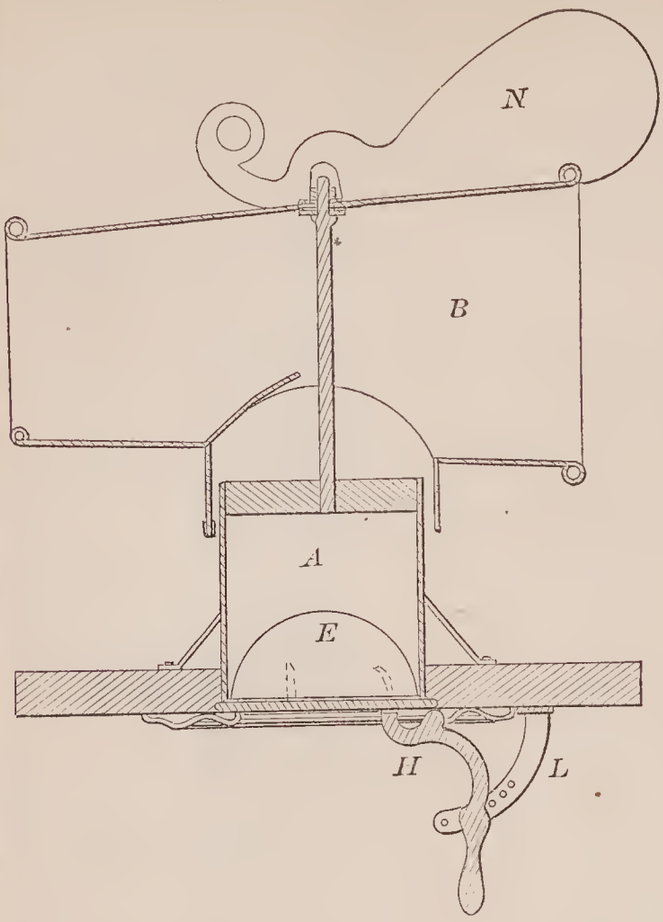
75873—A. De Bergue—*Locomotive Brake.*



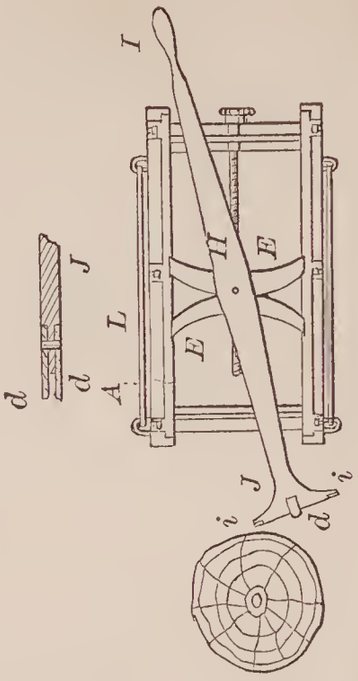
75874—Dederick & Grass—*Steam Carriage.*



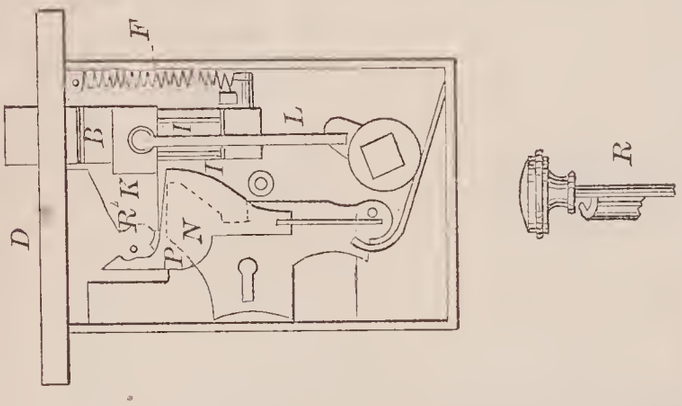
75878—I. Dripps—*Railroad Car Ventilator.*



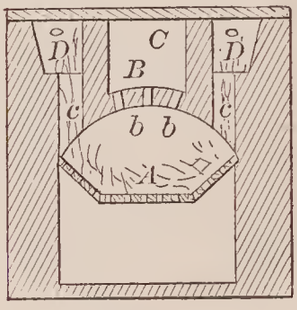
75882—A. Edwards—*For Felling Trees.*



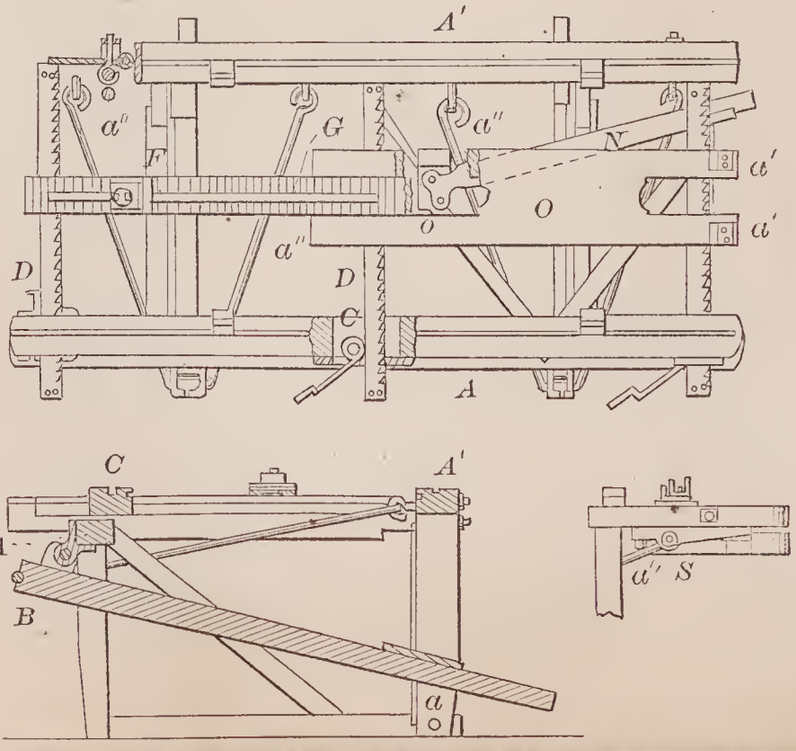
75879—S. W. Drowne—*Locking Knob Latch.*



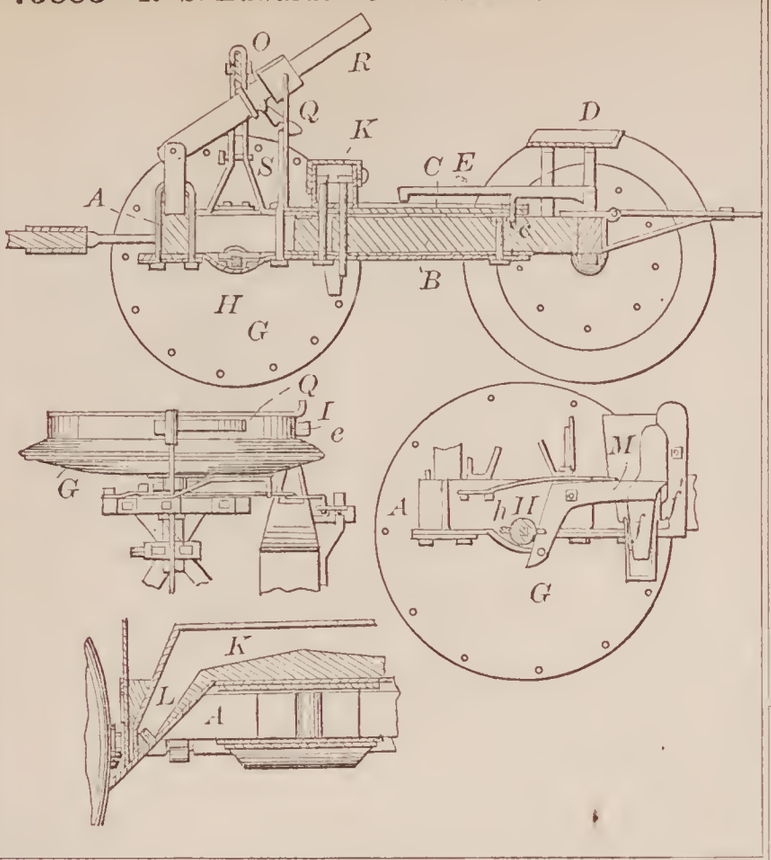
75881—Duryea & Ennis—*Furnace.*



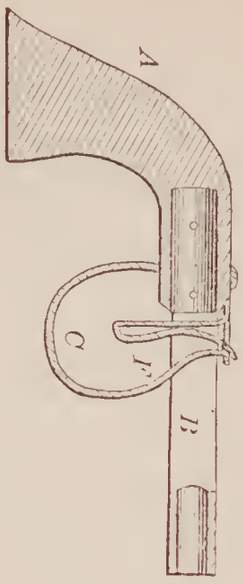
75880—E. F. Dunaway—*Door and Sash Clamp.*



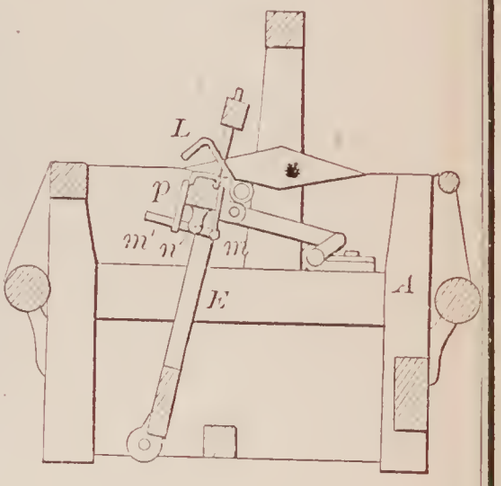
75883—R S. Edwards—*Corn Planter.*



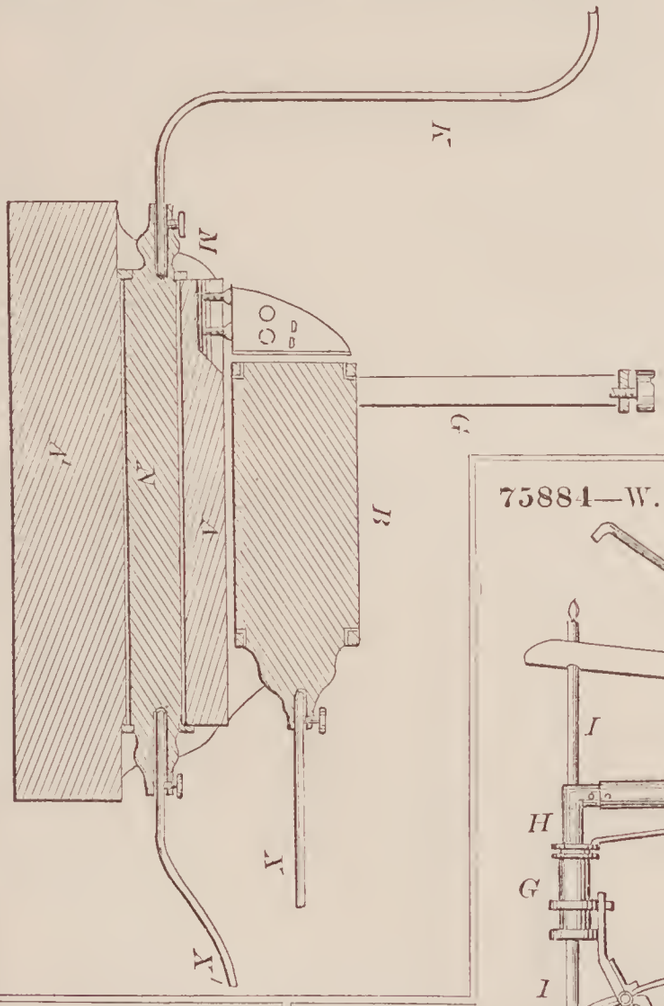
75885—W. H. Emory—*Toy Pistol.*



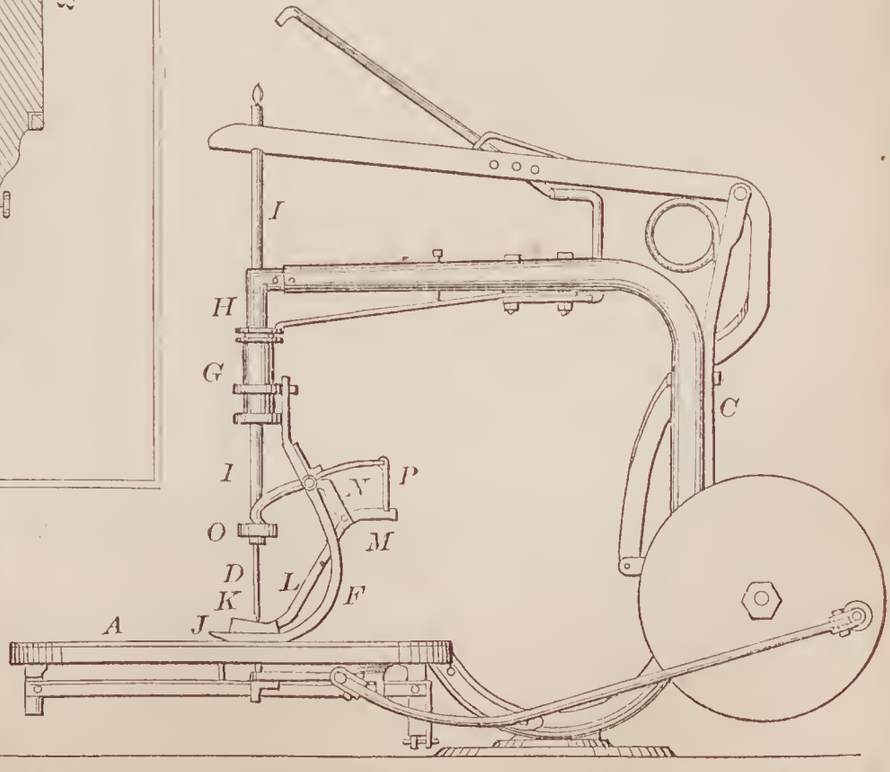
75888—J. C. Fifield—*Stop Motion for Looms.*



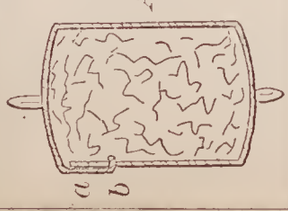
75886—L. H. Everitt—*Acoustic Telegraphing.*



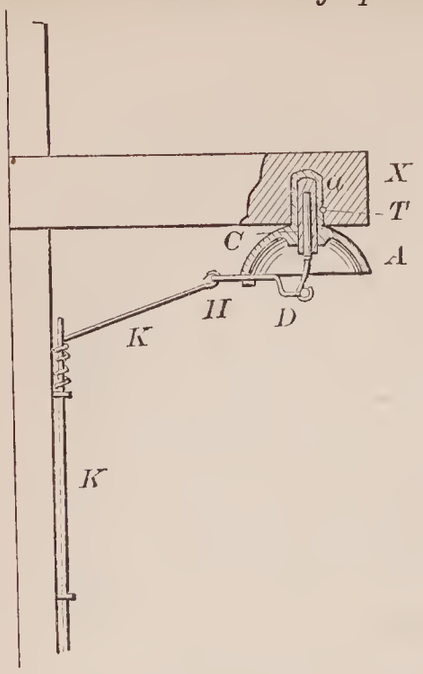
75884—W. St. G. Elliott—*Sewing Machine.*



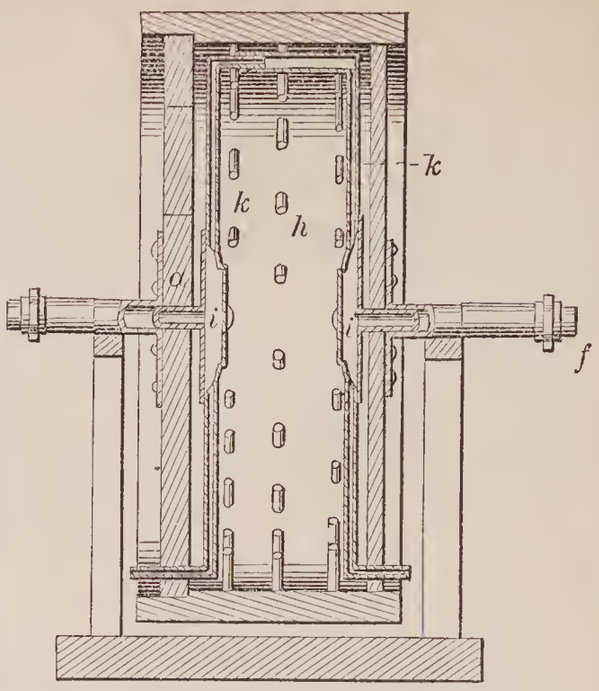
75887—M. Falk—*Packing Tobacco.*



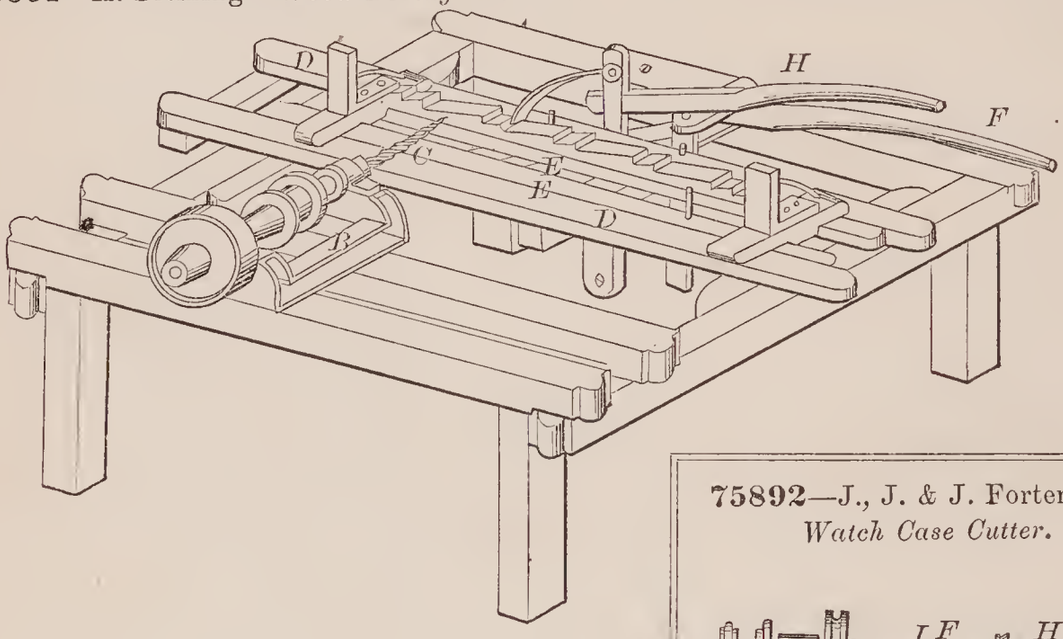
75889—J. L. Finn—*Telegraph Insulator.*



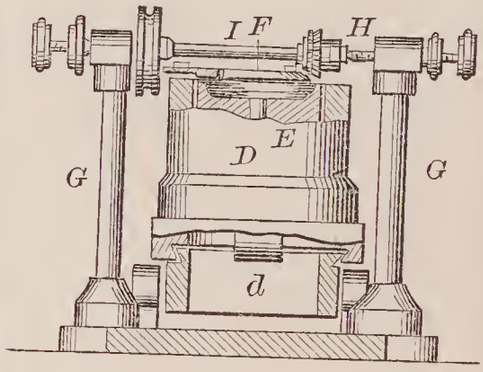
75890—F. Fischer—*For Stuffing Leather.*



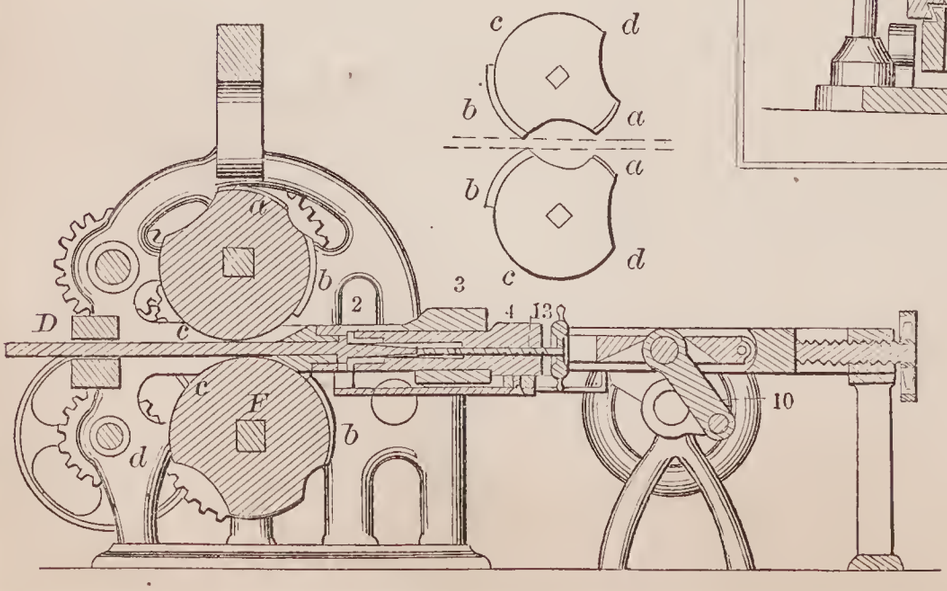
75891—H. Fleming—*Wood Boring Machine.*



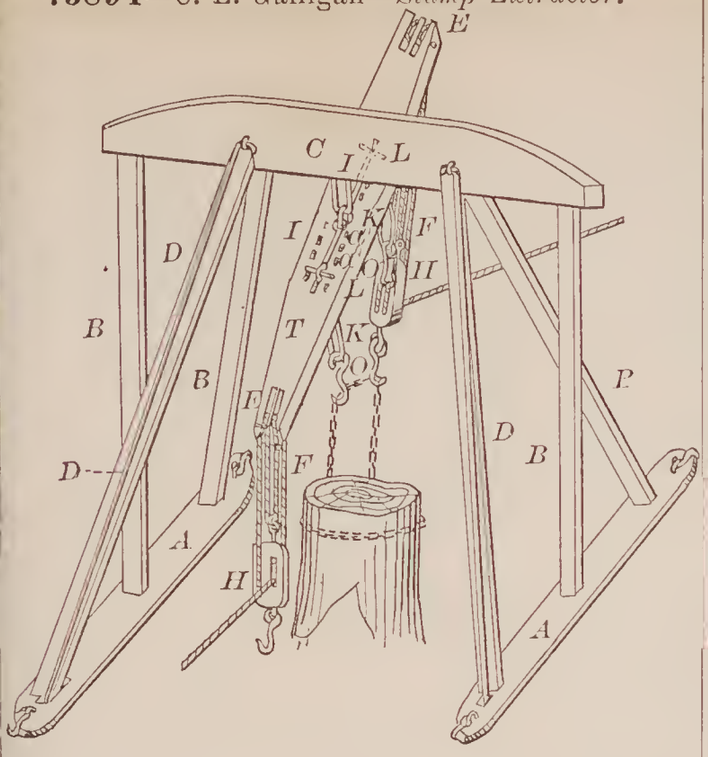
75892—J., J. & J. Fortenbach—*Watch Case Cutter.*



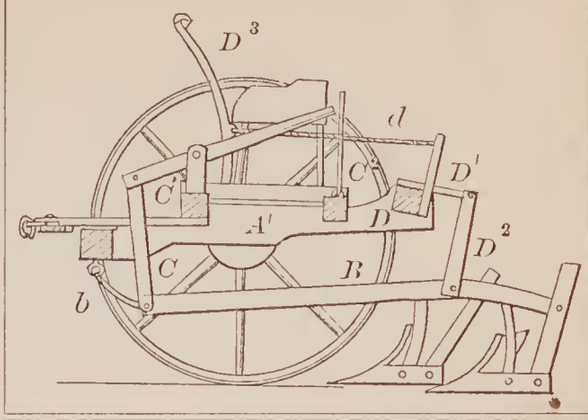
75893—B. W. Foster—*For Making Carriage Axles.*



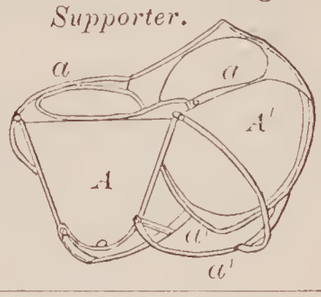
75894—C. E. Galligan—*Stump Extractor.*



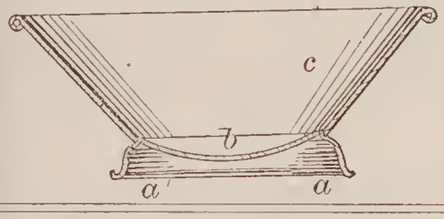
75895—Gatlin & Hubbard—*Gang Plow.*



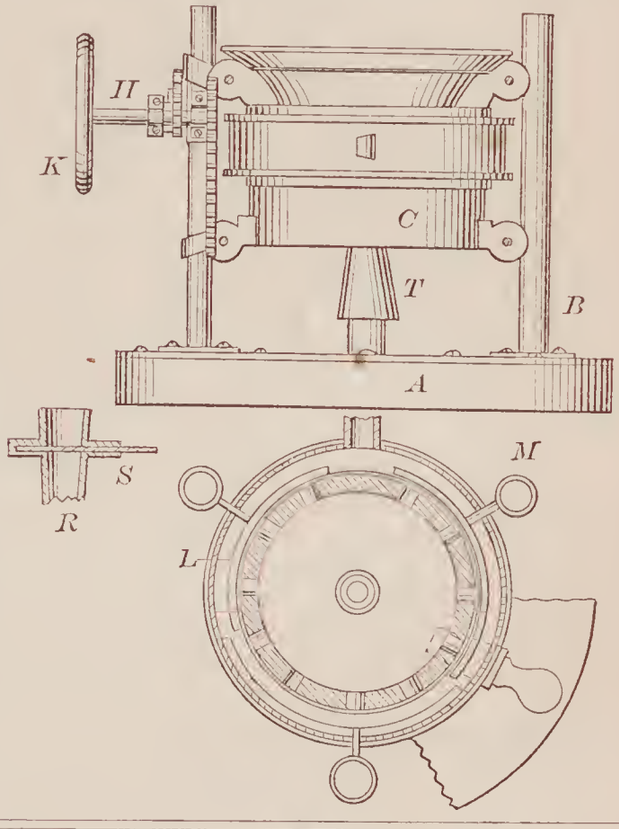
75902—E. J. Harding—*Uterine Supporter.*



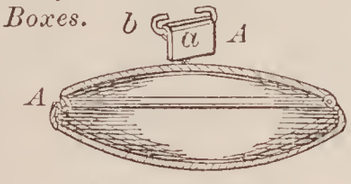
75896—Gilbert & Sofield—*Wash Bowl.*



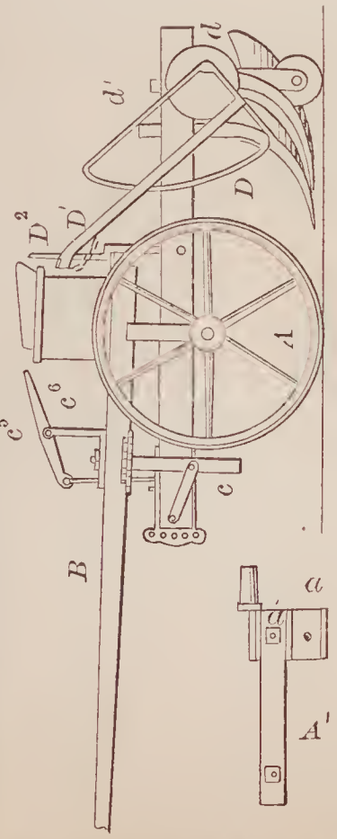
75899—Grunert & Bingham—*Flue Brazer.*



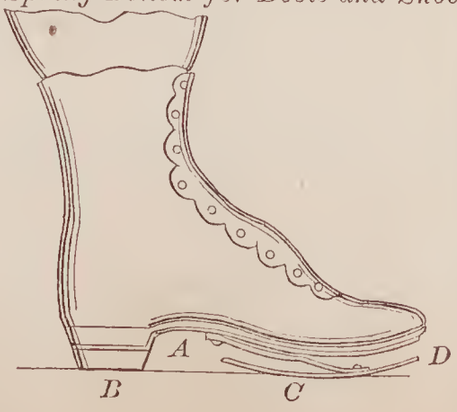
75903—C. J. Hauck—*Hinge for Sheet Metal Boxes.*



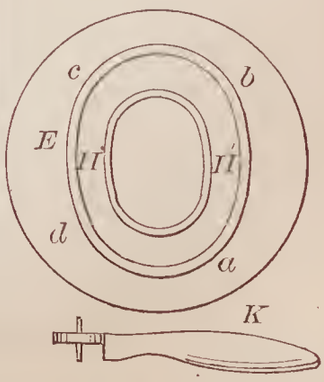
75901—W. E. Hardin—*Plow.*



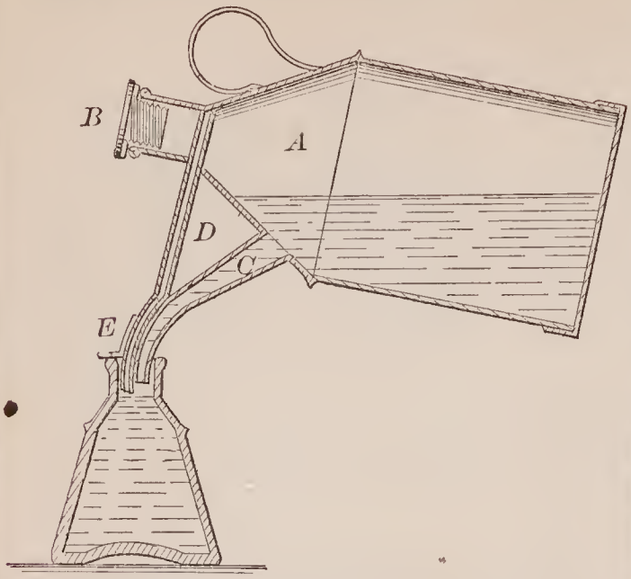
75900—Hale & Hubbell—*Spring Bottom for Boots and Shoes.*



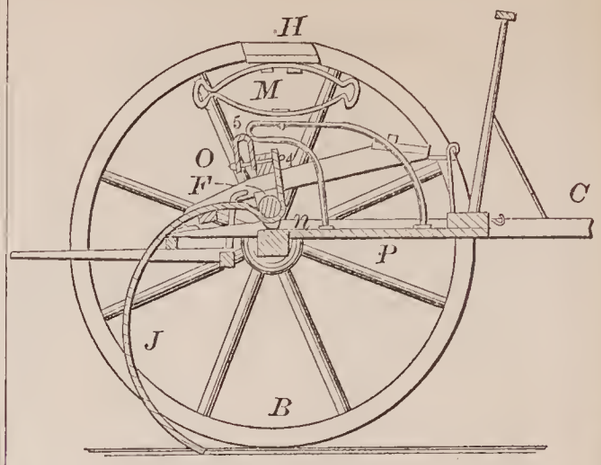
75897—F. R. Going—*For Shaping Hats.*



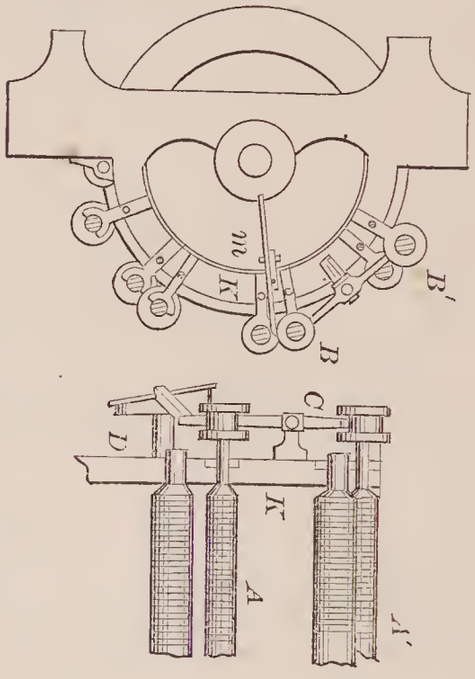
75904—C J. Hauck—*Oil Can.*



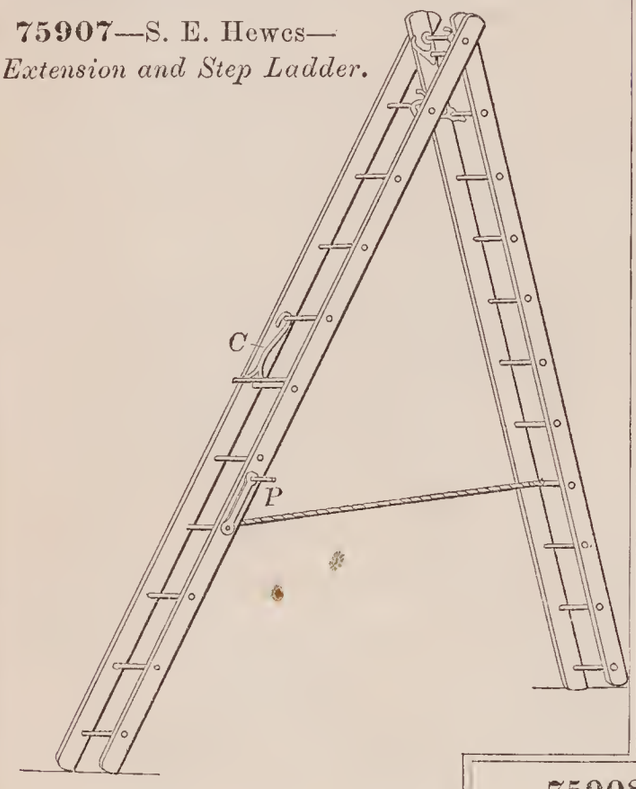
75905—H. R. Hawkins—*Horse Rake.*



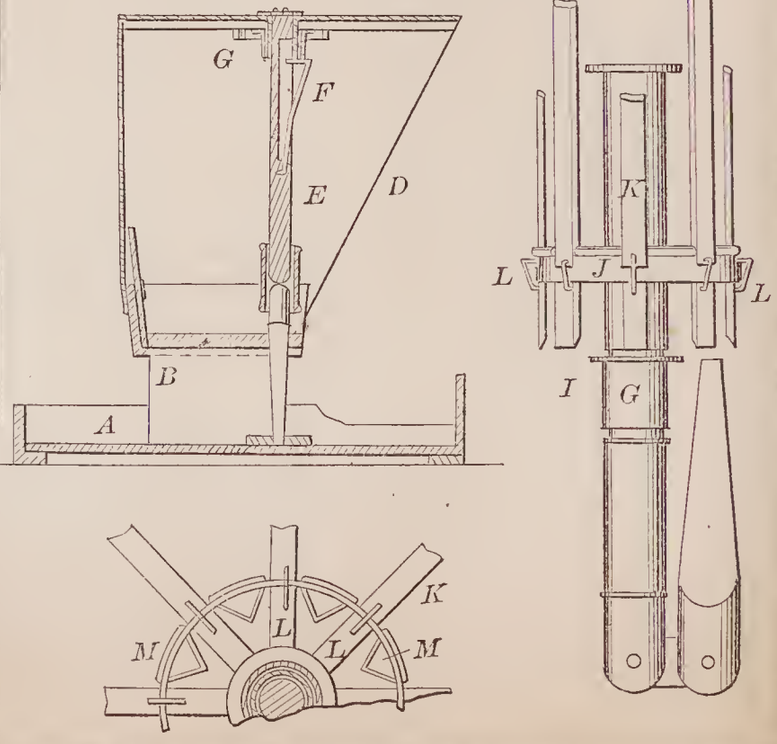
75906—Haythorn & Martin—*Carding Machine.*



75907—S. E. Hewes—*Extension and Step Ladder.*



75908—D. K. Hickok—*Carriage and Sleigh Top.*



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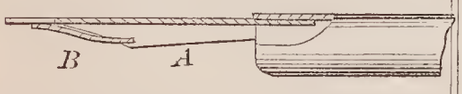
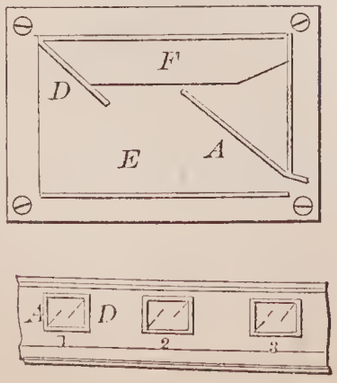
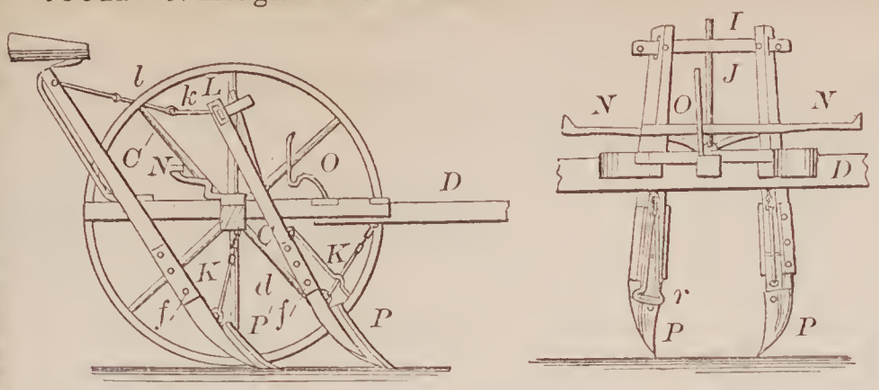


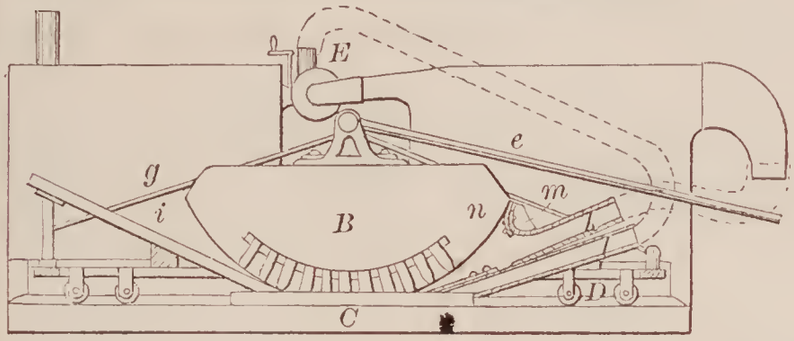
75910—R. Hitchcock—*Car Ventilator.*

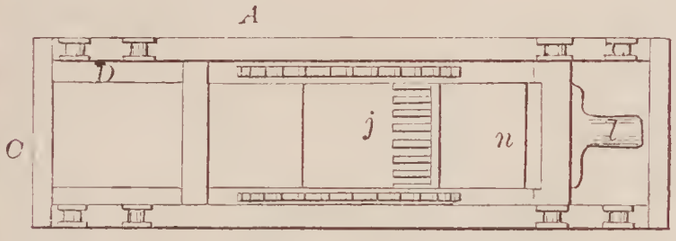


75911—C. Hoagland—*Cultivator.*

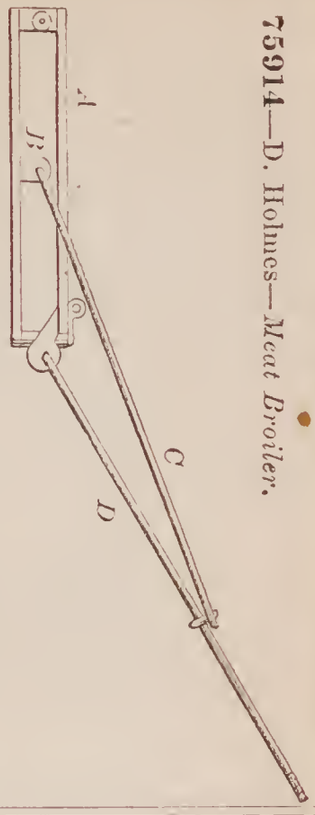


75912—F. E. Hoffmann—*For Pulverizing Stone.*

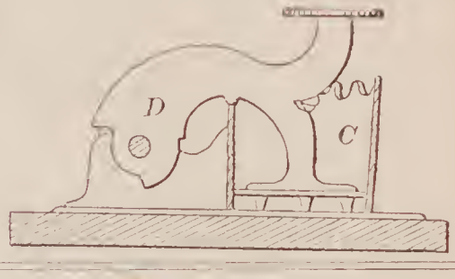




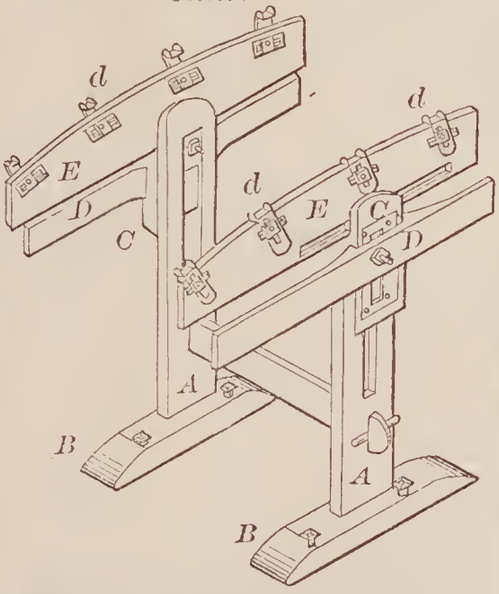
75914—D. Holmes—*Meat Broiler.*



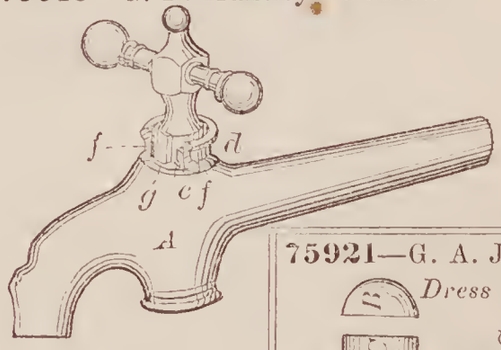
75913—Hollingsworth & Weever—*Ice Crusher.*



75916—H. C. Hoover—*Carriage Bow Setter.*

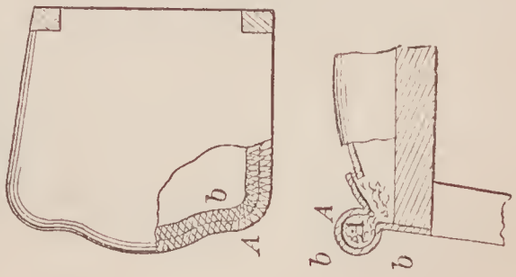


75918—G. R. Huntley—*Faucet.*

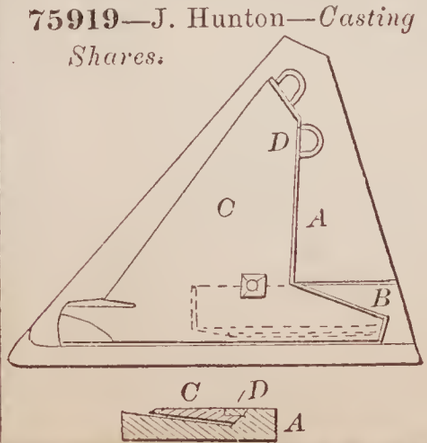


75921—G. A. Johnson—*Dress Trimming.*

75920—F. Hütwohl—*Furniture Edge.*

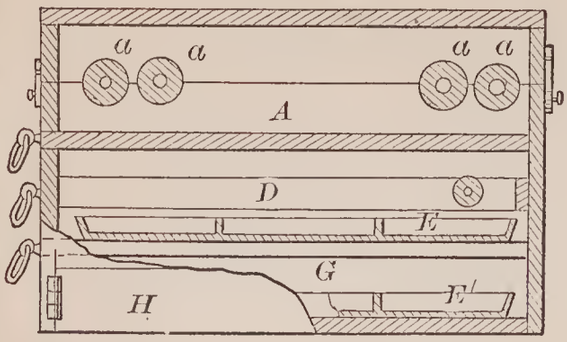


75919—J. Hunton—*Casting Plow Shares.*

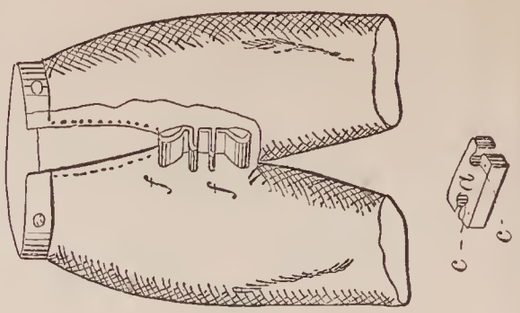


75917—G. W. Huffnagle—*Oyster Knife.*

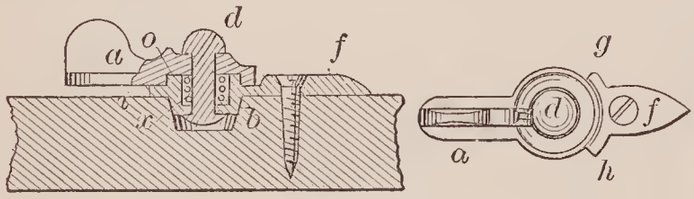
75922—M. A. Jones—*Bread Making Machine.*



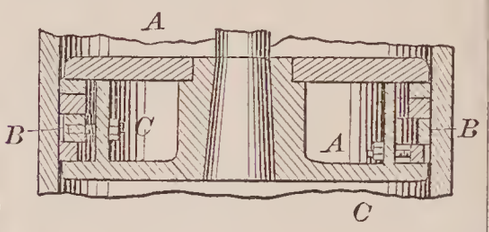
75924—Judson & Lynch—*Fastening Wearing Apparel.*



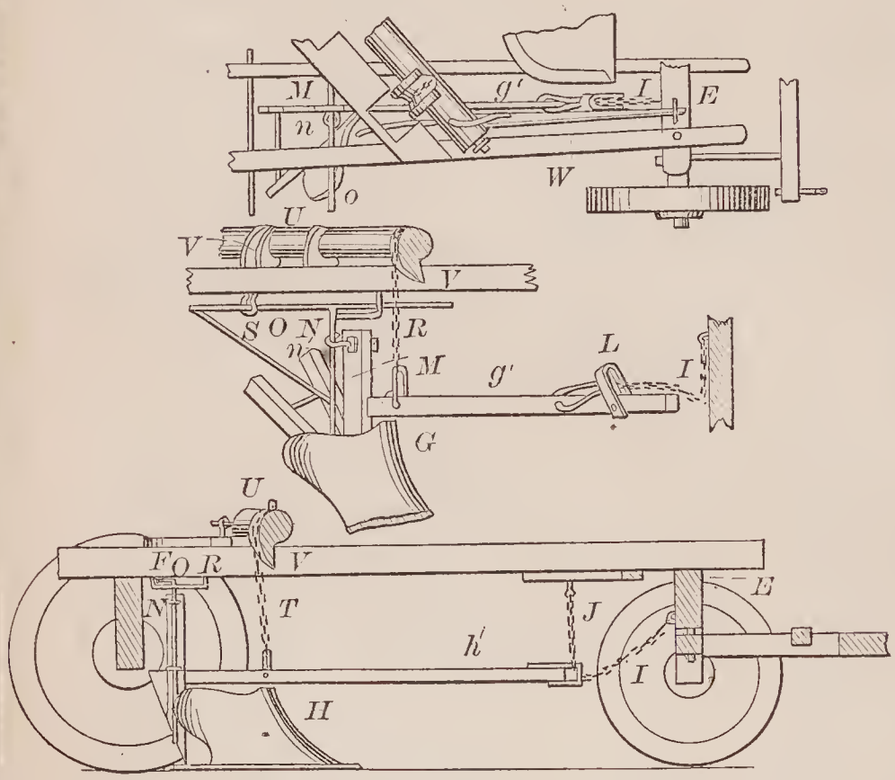
75923—M. Judd—*Sash and Door Button.*



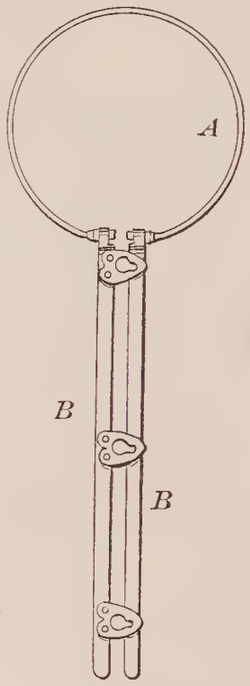
75927—J. King—*Piston Packing.*



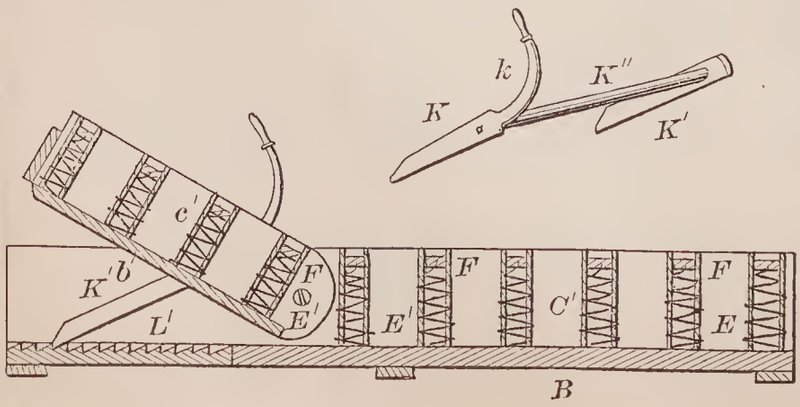
75925—J. L. Keasor—*Gang Plow.*



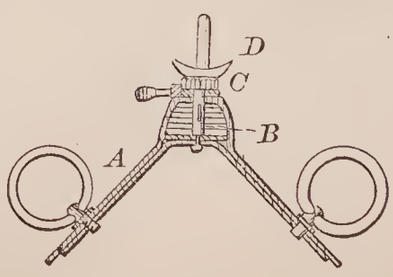
75928—W. King—*Fur Collar.*



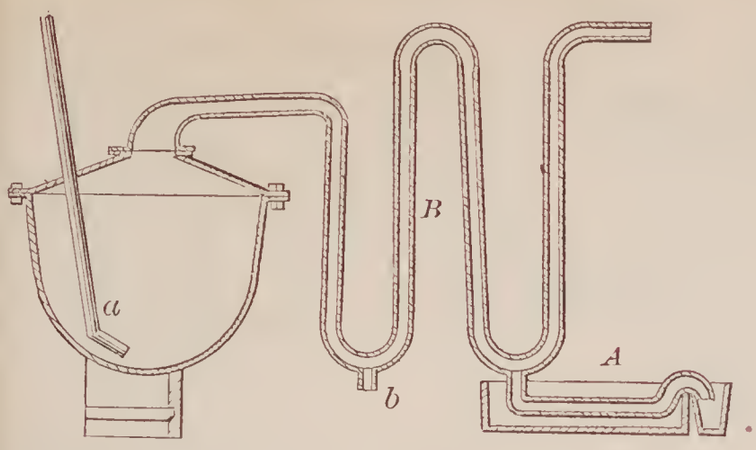
75926—A. W. Kendrick—*Bed Bottom.*



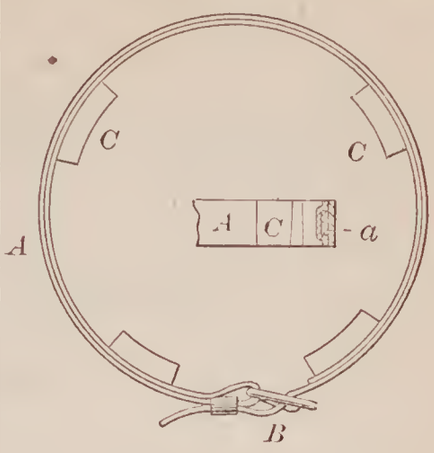
75930—R. M. La Rue—*Saddle and Harness.*



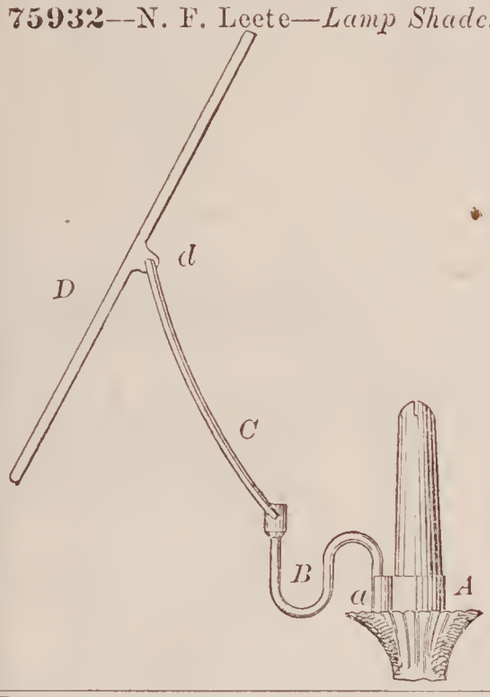
75929—O. Laist—*Manufacture of Glycerine.*



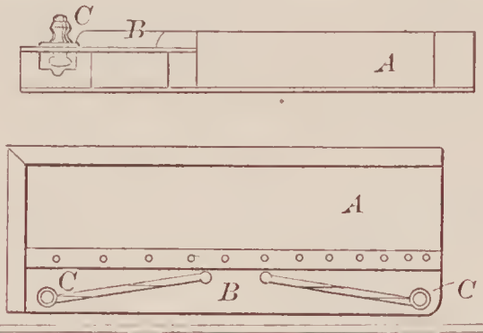
75931—J. A. Latham—*Garter.*



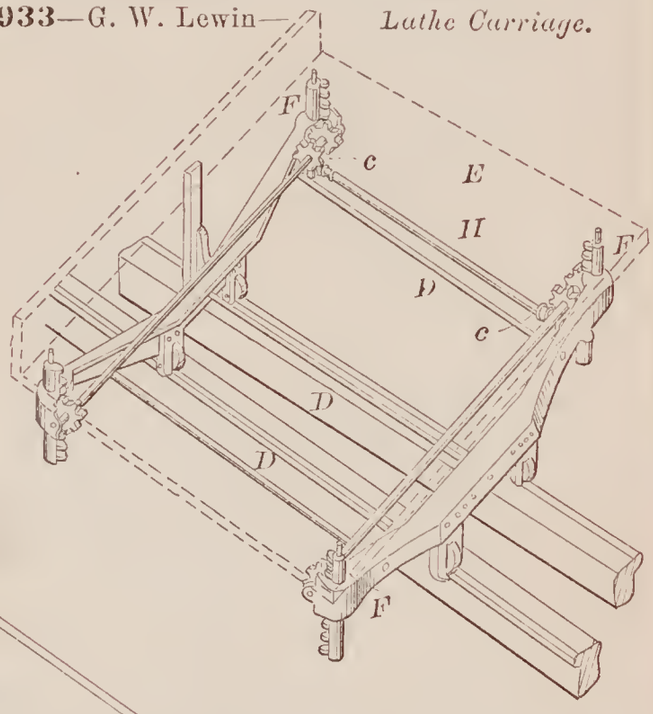
75932—N. F. Leete—*Lamp Shade.*



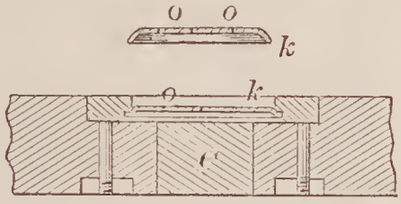
75935—H. E. Long—*Printers' Galley.*



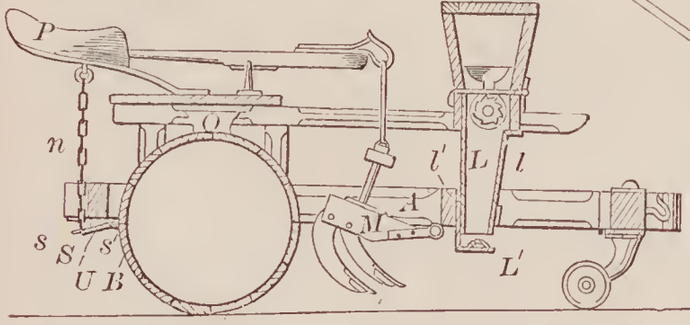
75933—G. W. Lewin—*Lathe Carriage.*

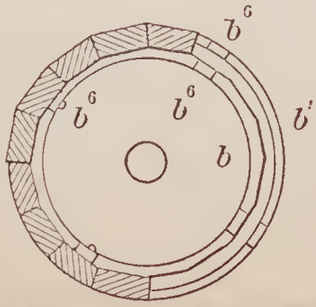


75934—E. A. Locke—*Cask Label.*

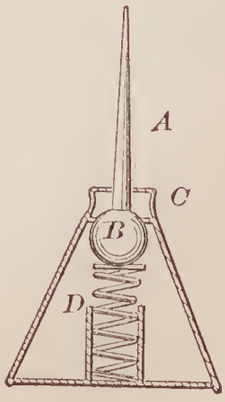


75936—J. P. Long—*Broadcast Seeder, Cultivator and Roller.*

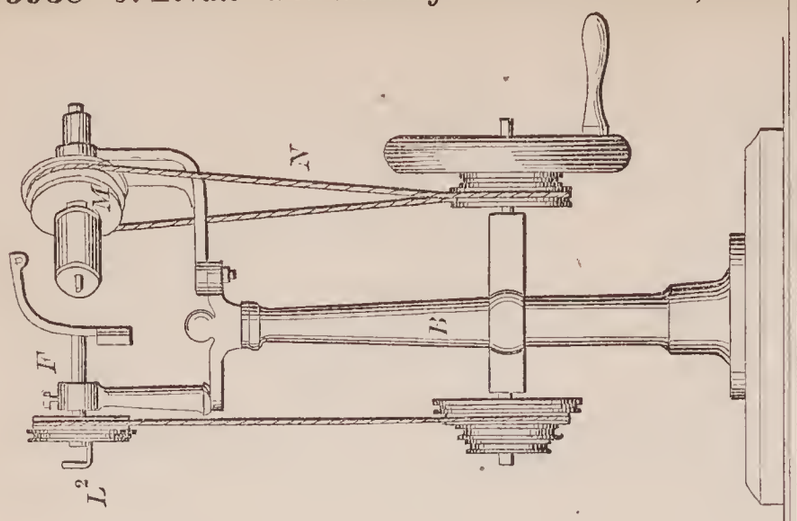




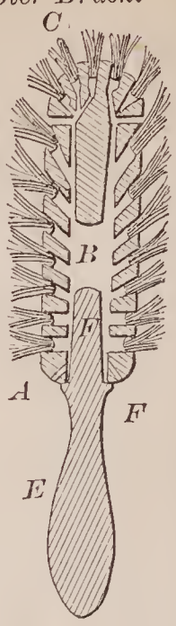
75937—T. C. Longton—*Oil Cup.*



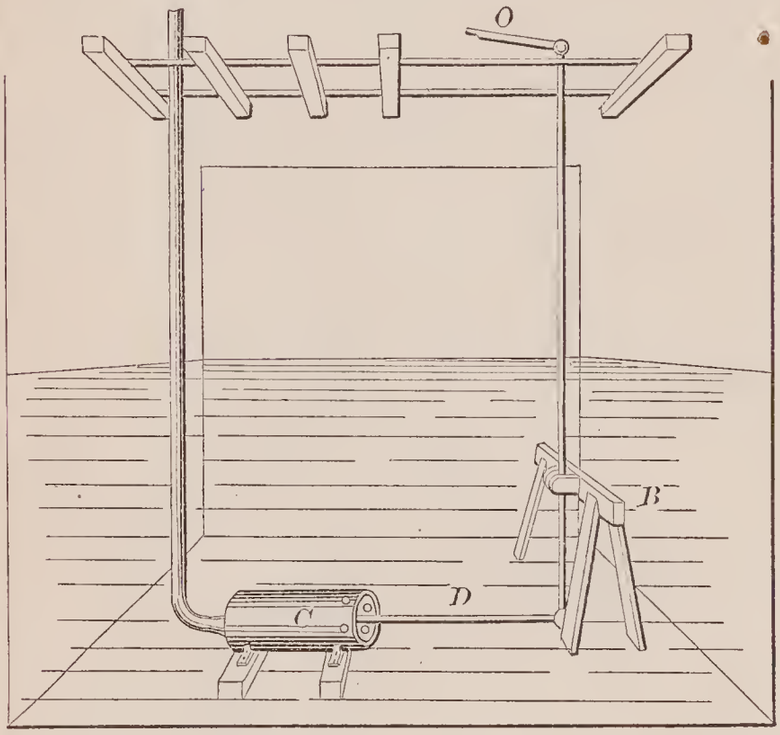
75938—J. Lovatt—*For Winding Button Hole Twist, &c.*



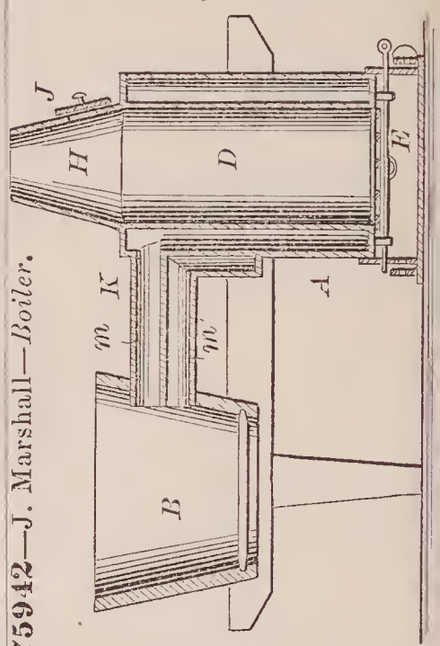
75940—H. Lumbard—*Tumbler Brush.*



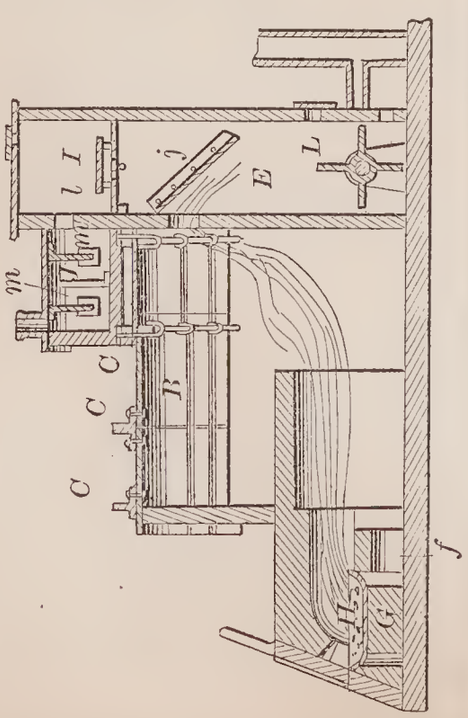
75939—S. Love—*For Filling Railroad Tanks with Water.*



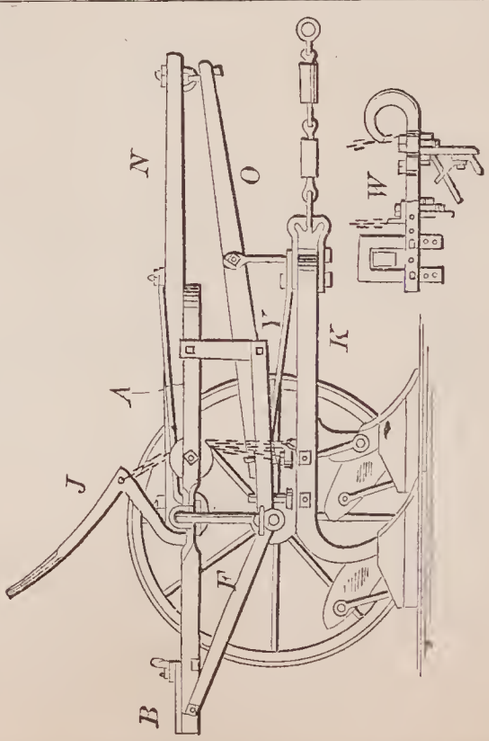
75942—J. Marshall—*Boiler.*



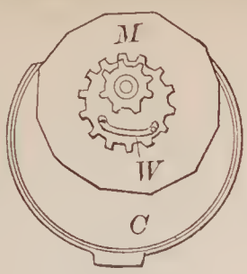
75943—M. Matlack—*Manufacture of Lamp Black.*

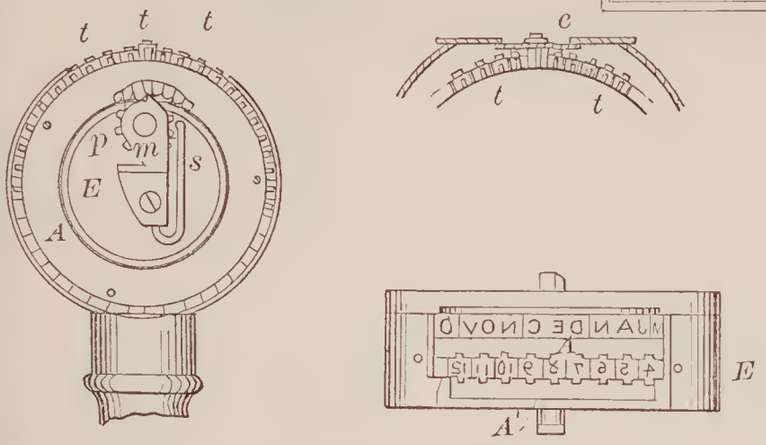


75941—I. B. Mahon—*Cultivator and Gang Plow.*



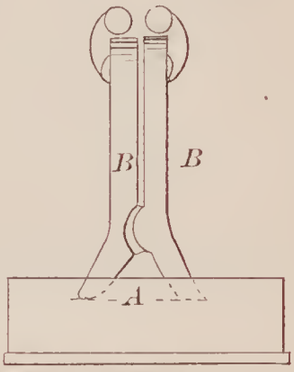
75945—Merriam & Luce—*Hand Stamp.*



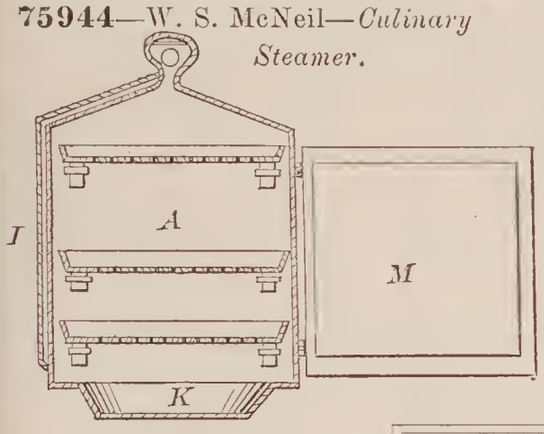


75946—D. L. Miller—*Pulley for Hoisting Apparatus.*

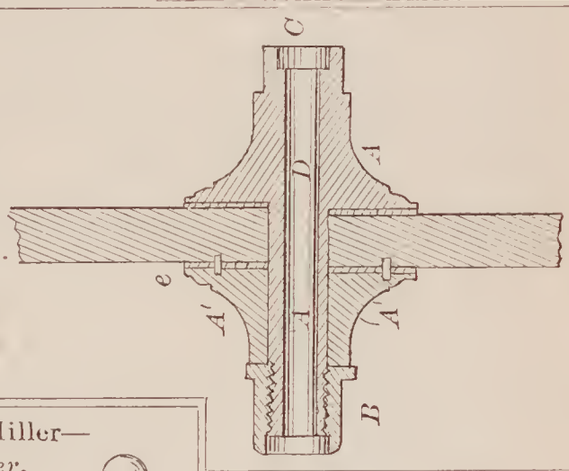
75949—T. S. Minniss—*Sad Iron Handle.*



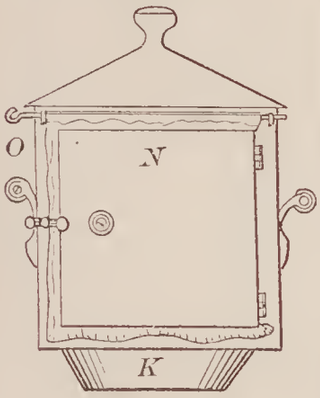
75944—W. S. McNeil—*Culinary Steamer.*

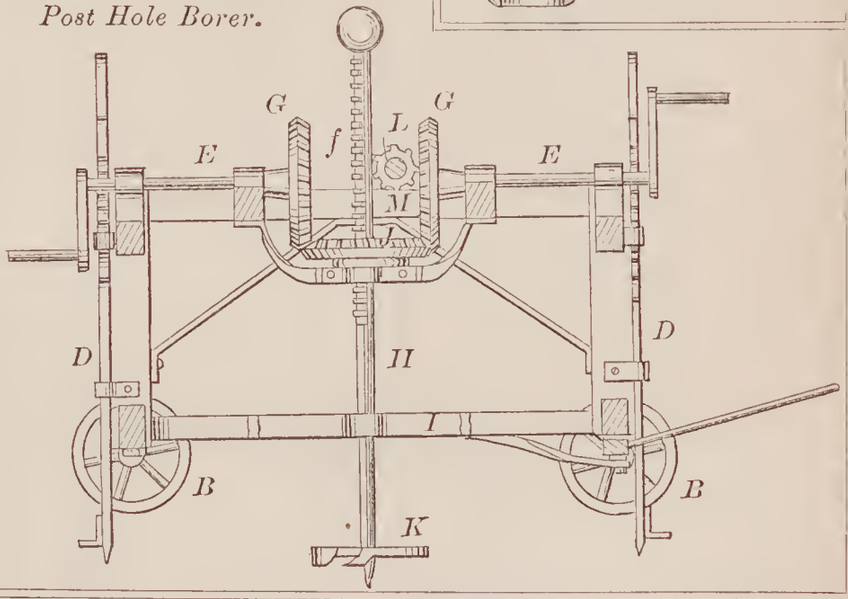


75948—Minor & Ward—*Carriage Hub.*

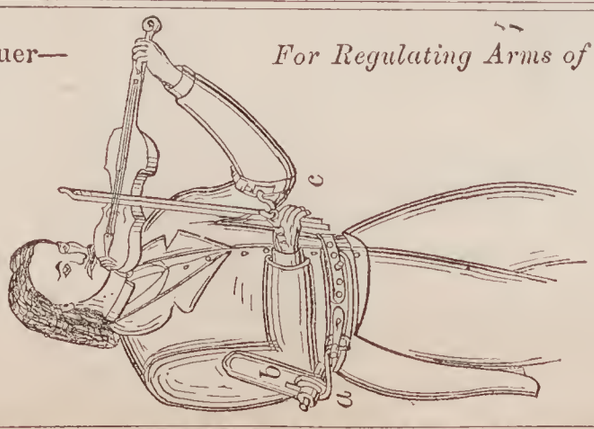


75947—J. K. Miller—*Post Hole Borer.*

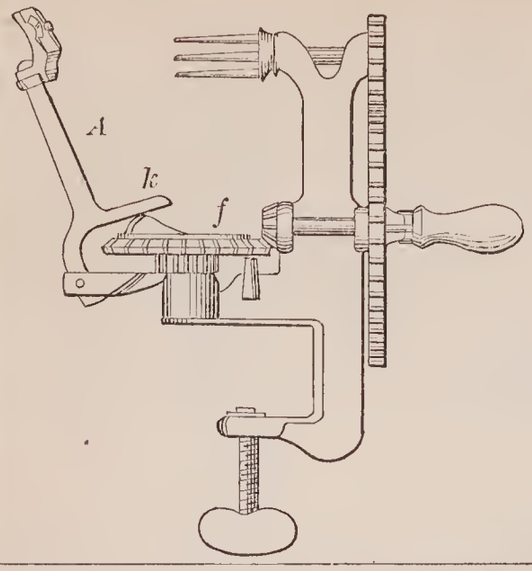




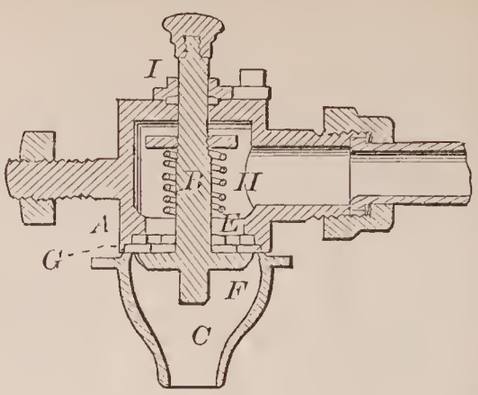
75950—E. Mollenhauer—*For Regulating Arms of Violin Players.*



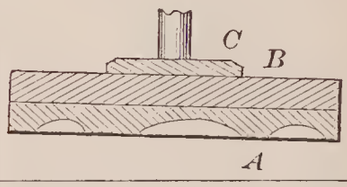
75951—J. F. & E. P. Monroe—*Apple Parer.*



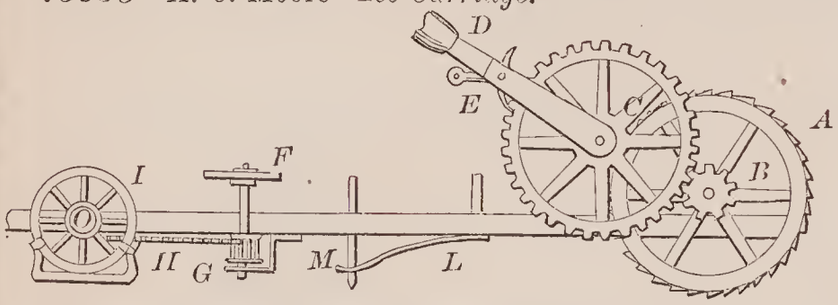
75952—G. R. Moore—*Water Pipe Valve.*



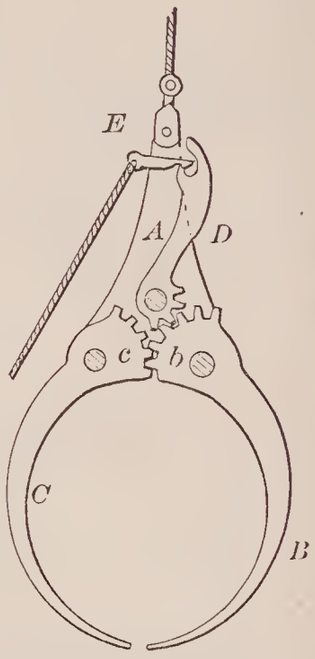
75957—L. Murr—*Printing Cloth.*



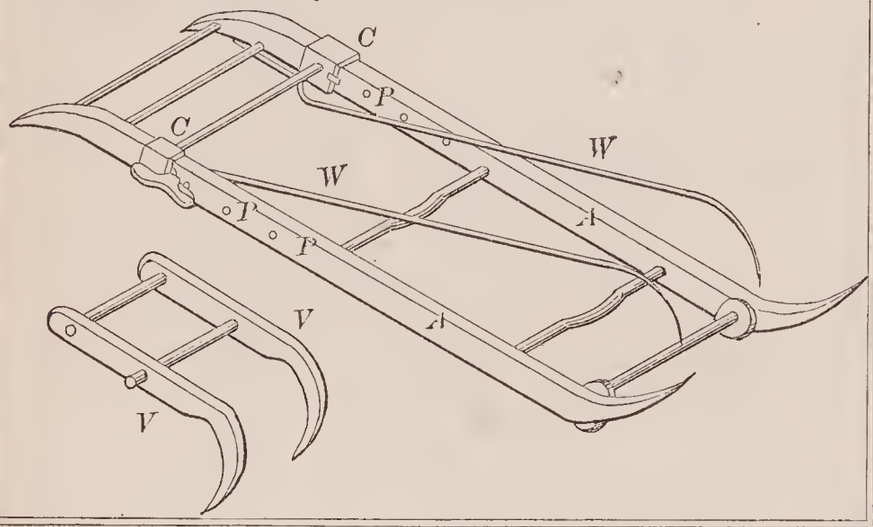
75953—H. C. Moore—*Ice Carriage.*



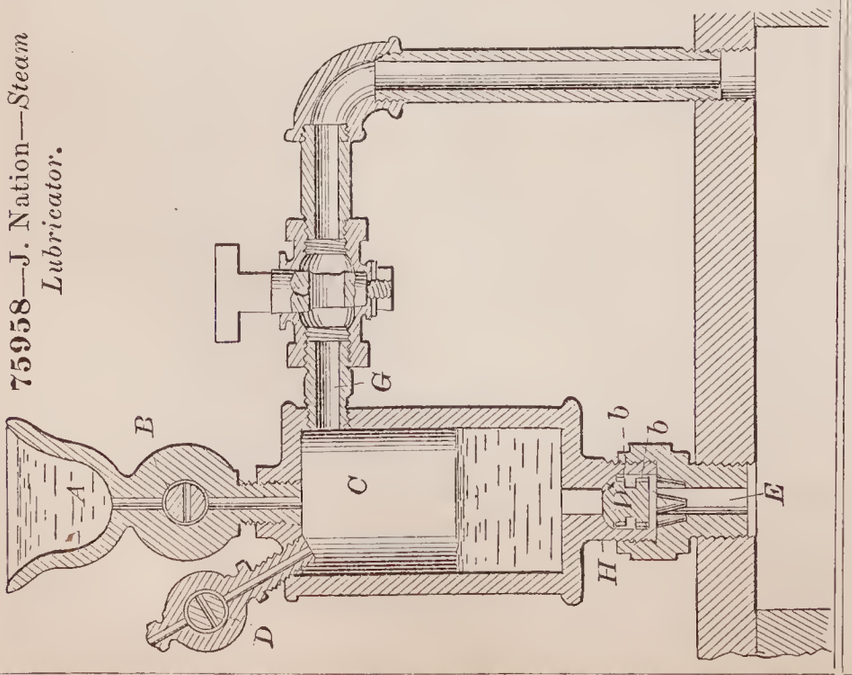
75956—P. A. Mowers—*Horse Hay Fork.*



75954—A. F. Morey—*Barrel Truck.*

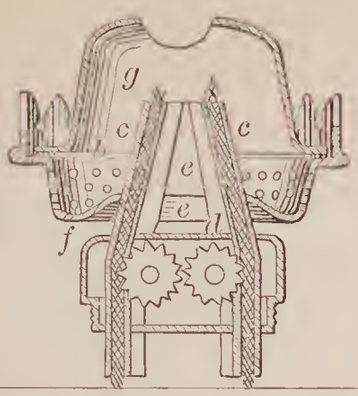


75958—J. Nation—*Steam Lubricator.*

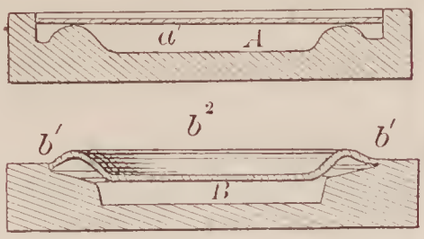


75955—J. Mosley—*Pocket Knife.*

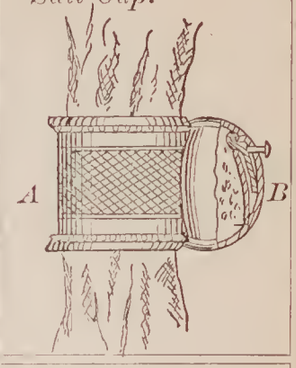
75959—H. K. Needham—*Lamp Burner.*



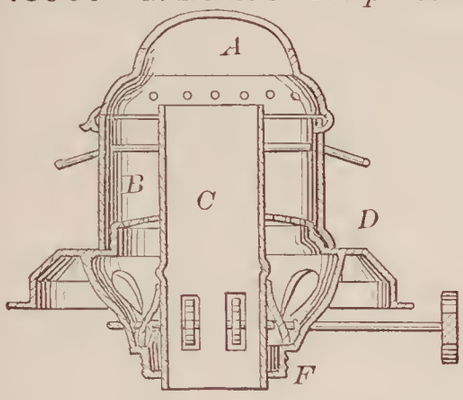
75961—Neuberger & Illig—*For Stamping Tin Ware.*



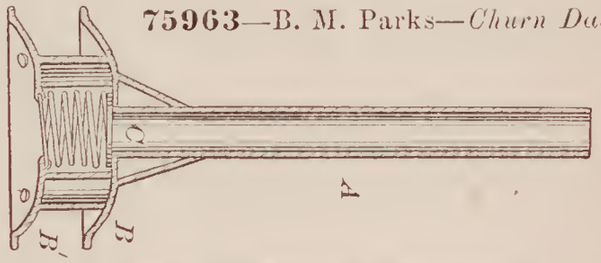
75968—G Pine—*Napkin Ring and Salt Cup.*



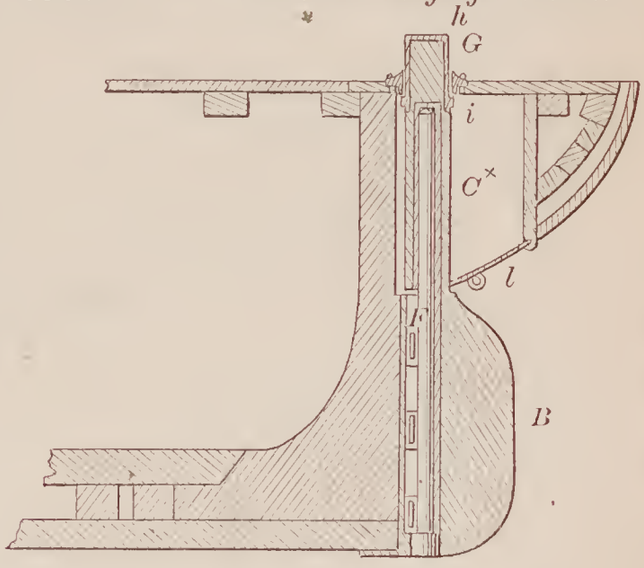
75960—G. Neilson—*Lamp Burner.*



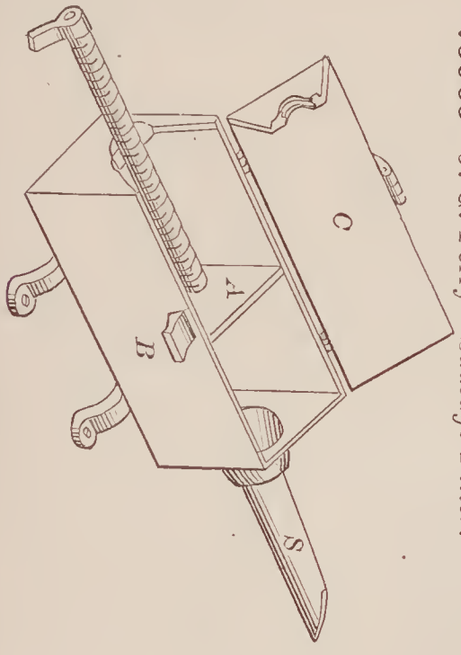
75963—B. M. Parks—*Churn Dasher.*



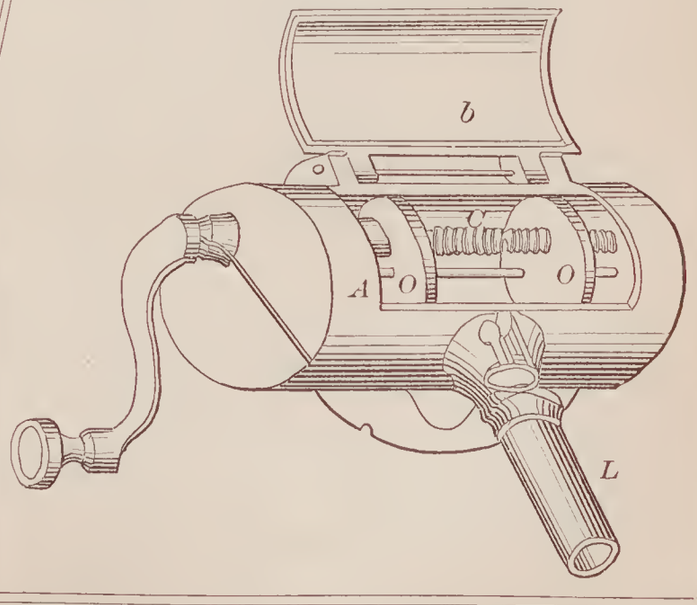
75964—H. H. Pember—*Hanging Rudders.*



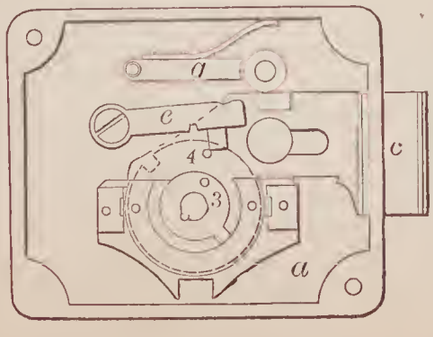
75965—J. G. Perry—*Sausage Filler.*



75966—J. G. Perry—*Sausage Filler.*

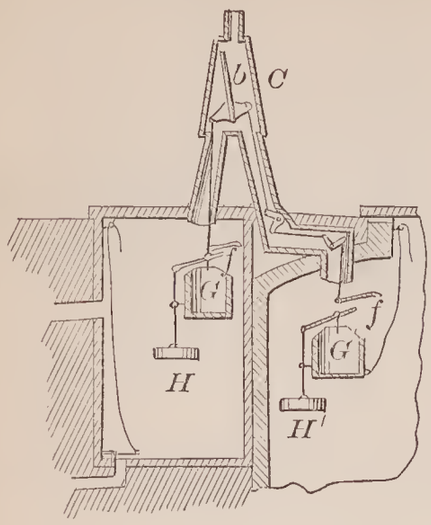


75967—O. E. Pillard—*Permutation Lock.*

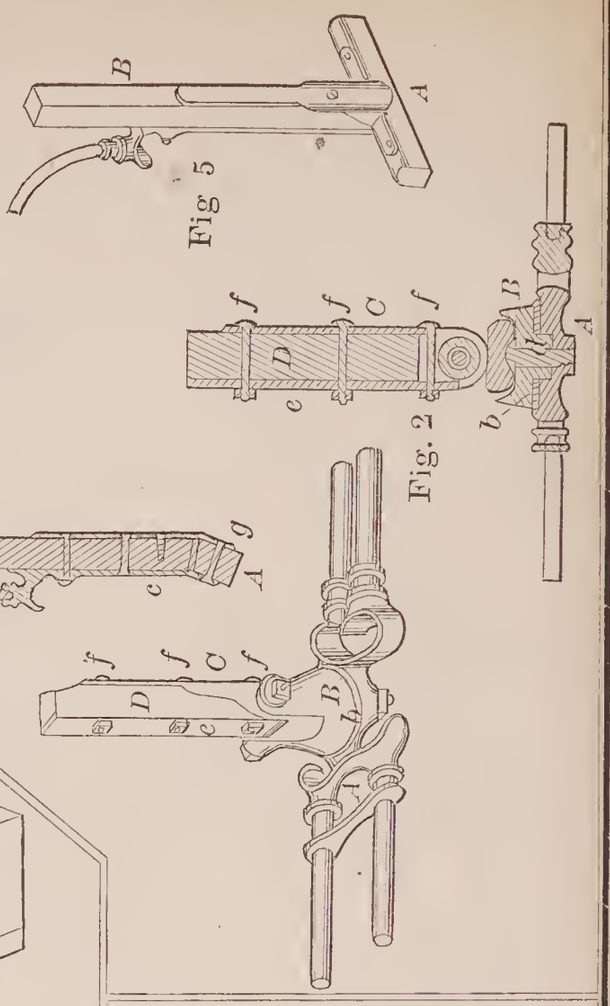


75962—S. B. Parker—*For Fastening Shoe Strings.*

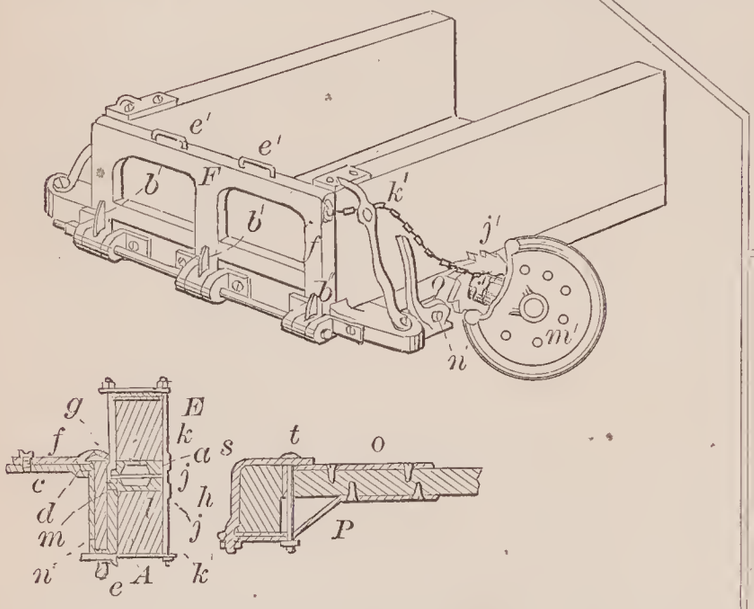
75969—S. H. Plumb—*Automatic Feeder and Cut-off.*



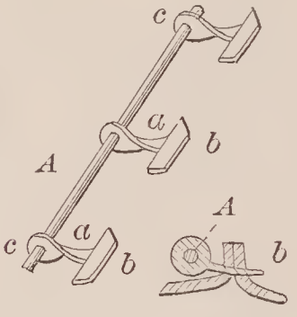
75971—T. W. Porter—*Sleigh.*



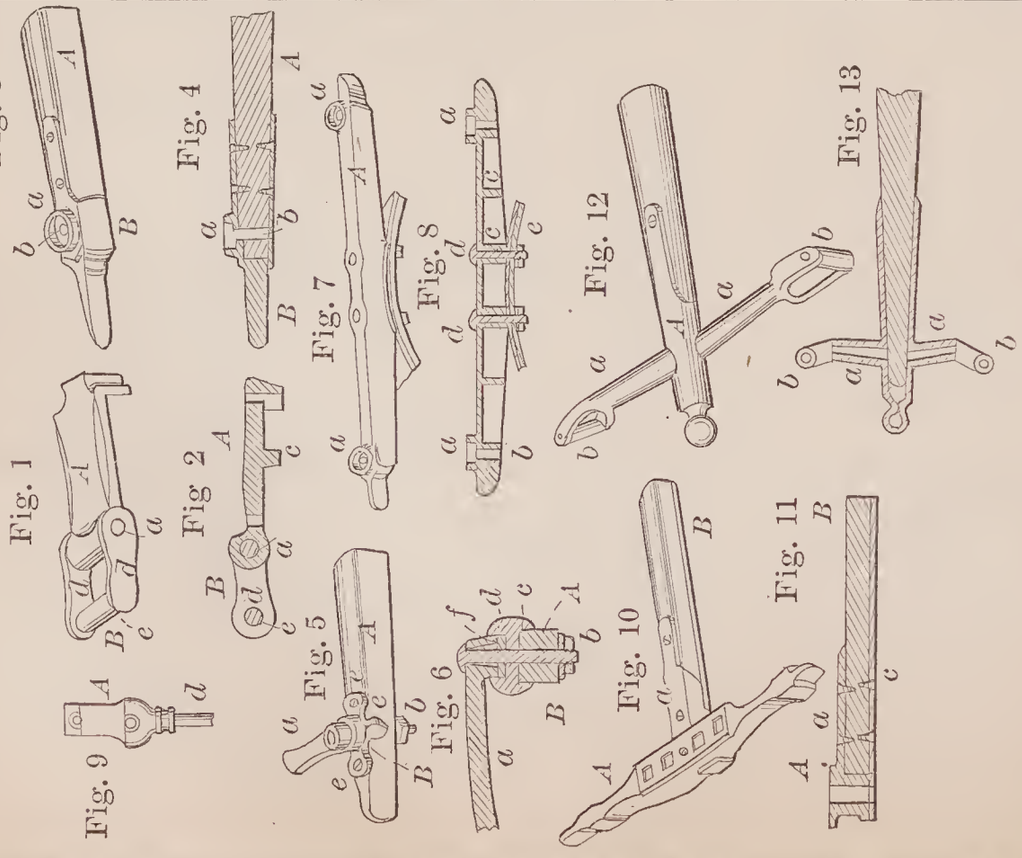
75972—T. W. Porter—*Express Wagon.*



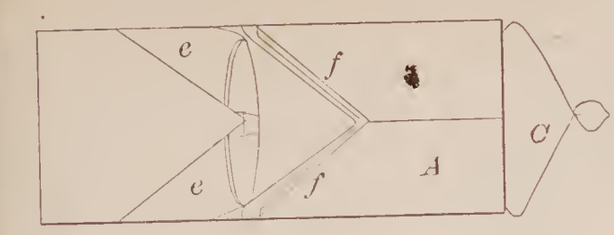
75970—T. W. Porter—*Belt Clasp.*

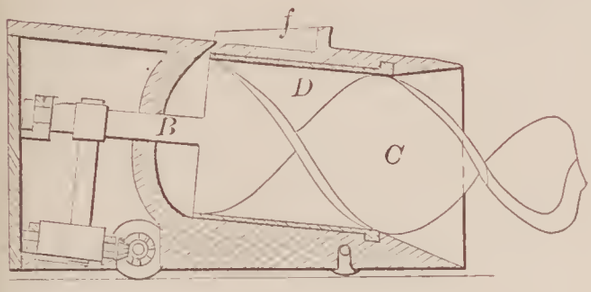


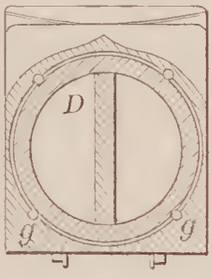
75973—T. W. & H. K. Porter—*Carriage*



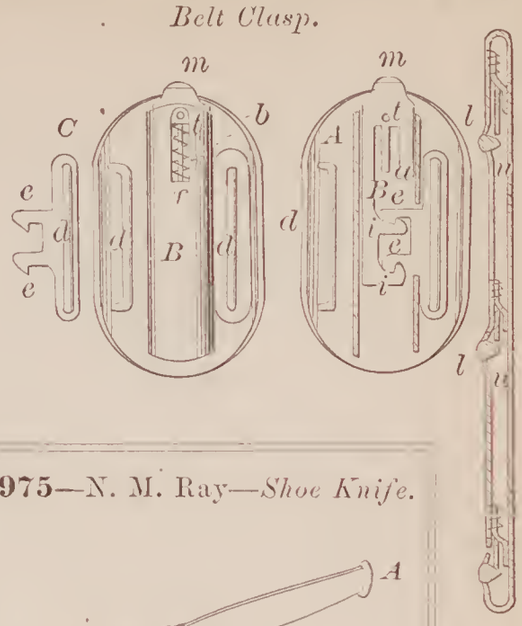
75979—E. Robbins—*Railway Snow Plow.*



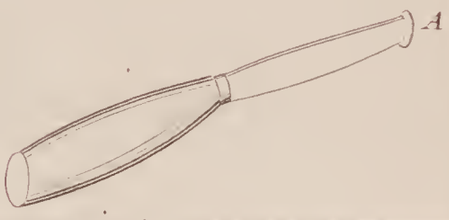




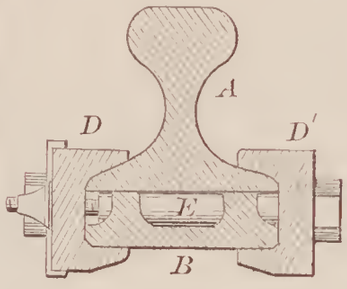
75976—J., S. A., G. E. & F. F. Reading—*Belt Clasp.*



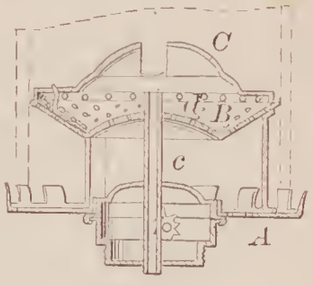
75975—N. M. Ray—*Shoe Knife.*



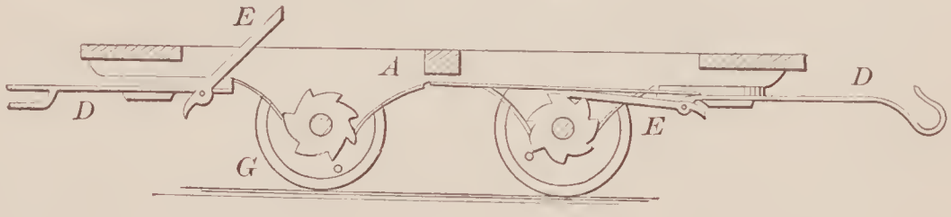
75977—S. J. Reeves—*Railway Rail Joint.*



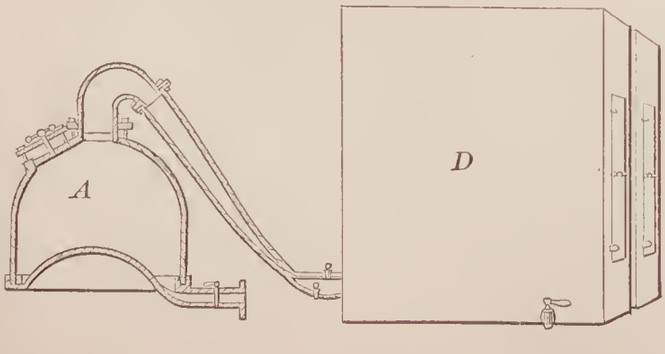
75978—E. B. Requa—*Lamp Burner.*



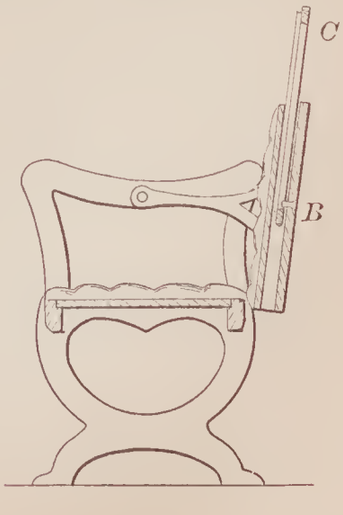
75981—L. Rodenhausen—*Car Starter.*



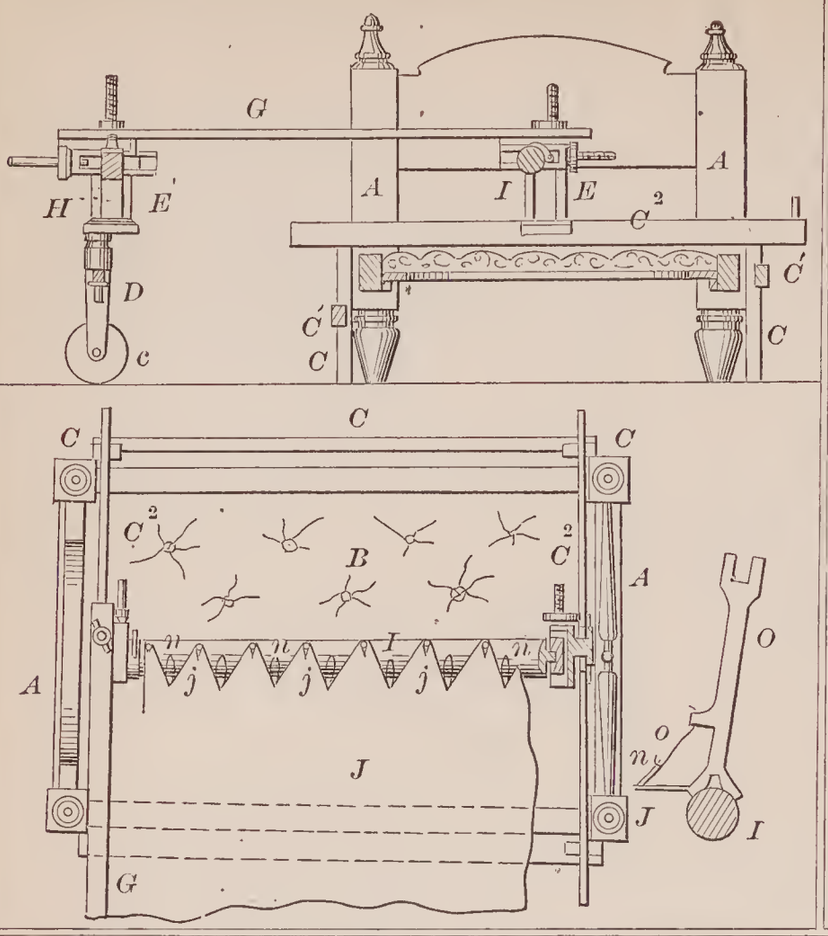
75980—L. S. Robbins—*For Cleaning Wool, &c.*



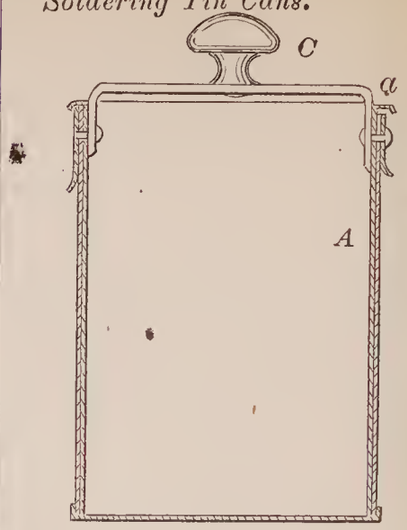
75982—C. Rowland—*Car Seat.*



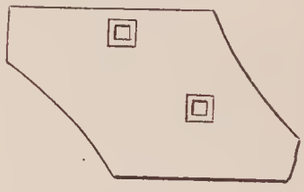
75983—Rowles & Russell—*Invalid Bedstead.*



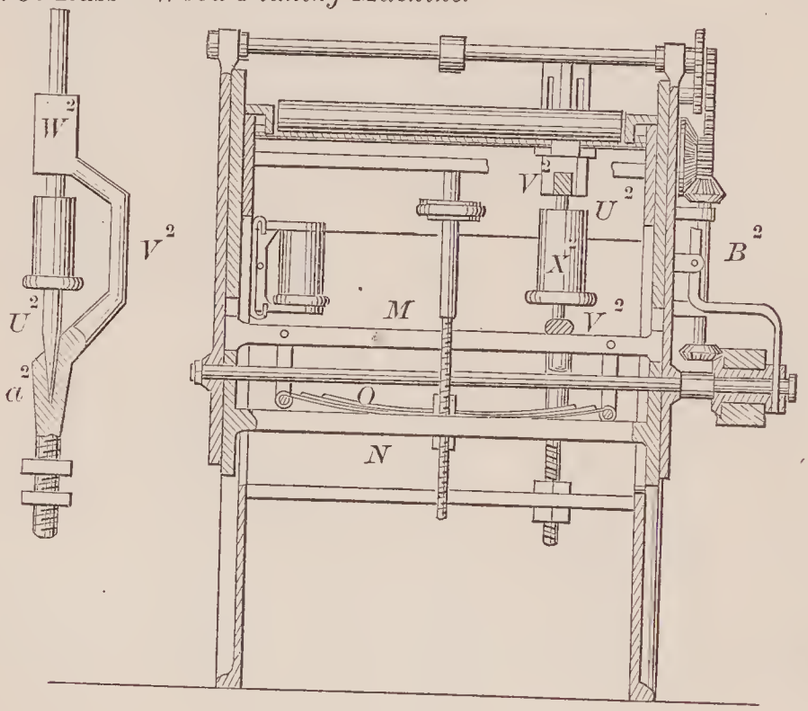
75985—W. Serviss—*For Soldering Tin Cans.*

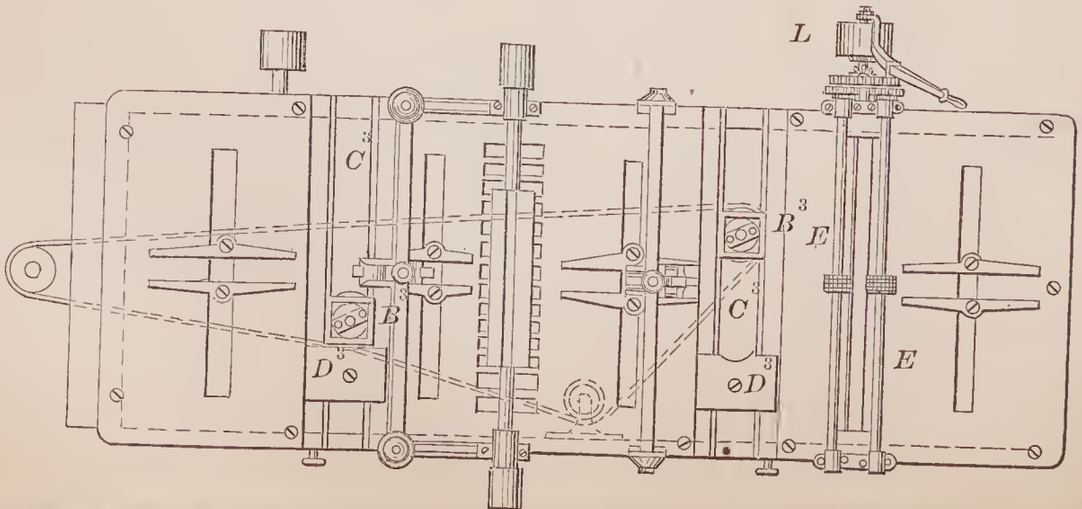


75986—F. E. Sessions—*Hardening Iron and Steel.*

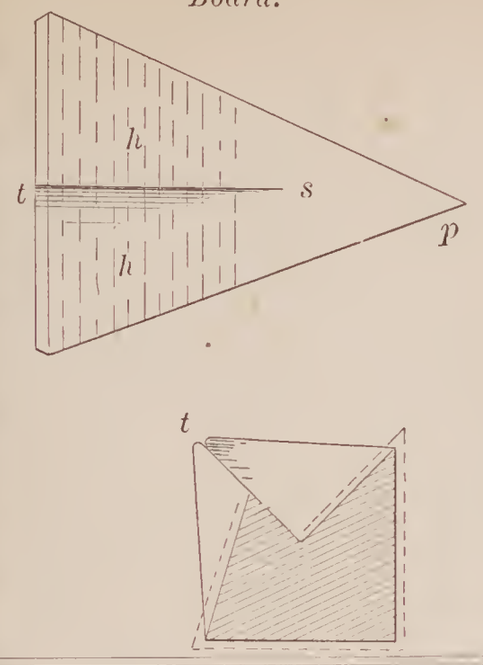


75984—J. J. Russ—*Wood Planing Machine.*

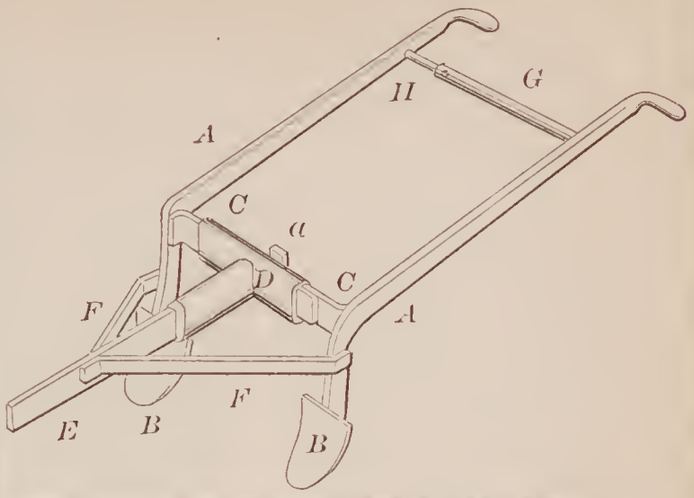




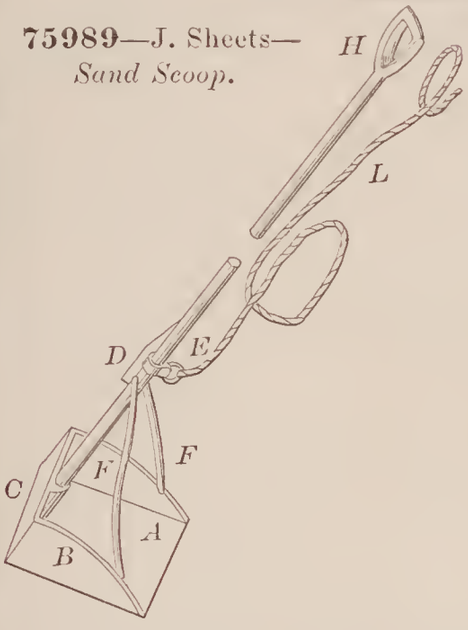
75987—J. Seymour—*Plow Mould Board.*



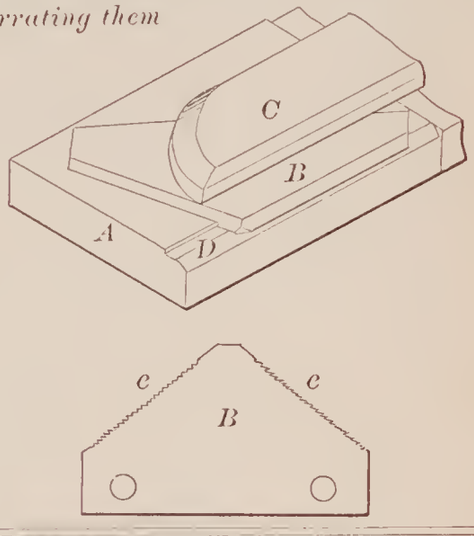
75988—Shalters & Ray—*Double Shovel Plow.*



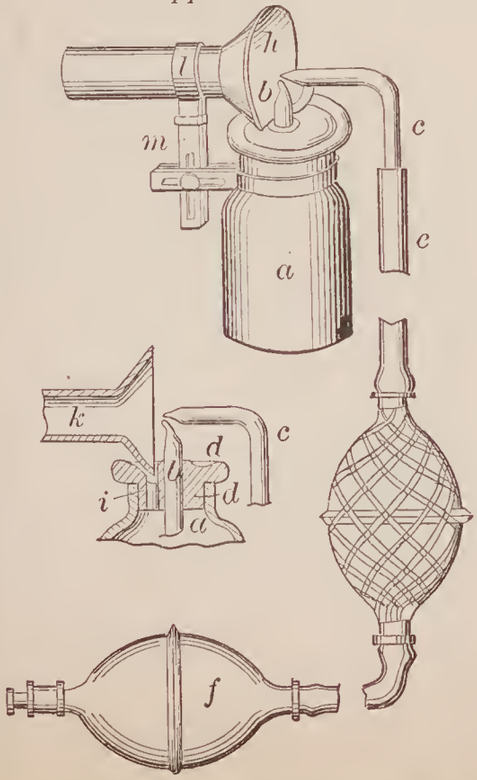
75989—J. Sheets—*Sand Scoop.*



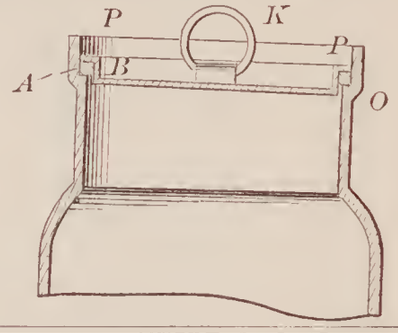
75990—S. D. Sheldon—*Sickle Sections and Serrating them*



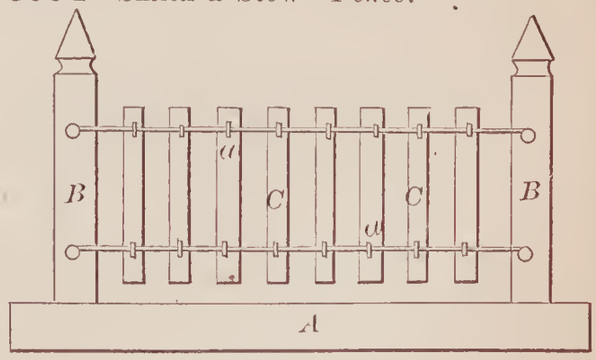
75991—A. M. Shurtleff—*Atomizing Apparatus.*



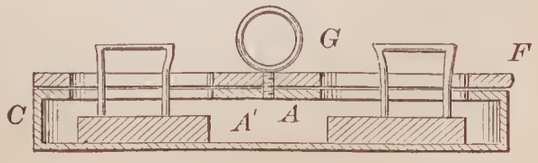
75993—C. S. Siddons—*Fruit Jar.*



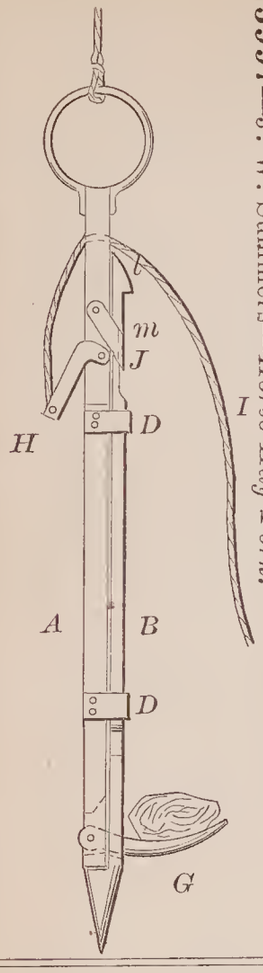
75994—Smith & Stow—*Fence.*



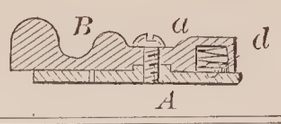
75995—S. W. Smith—*Flat Iron Heater.*



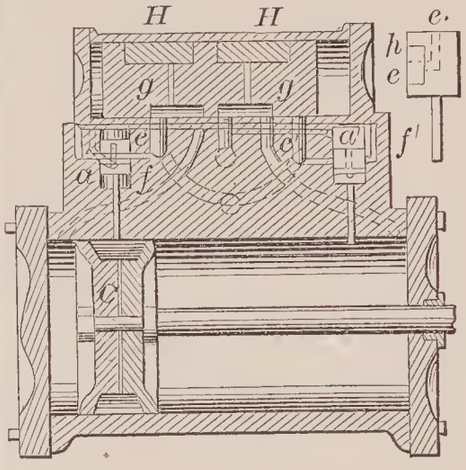
75997—J. W. Summers—*Horse Hay Fork.*



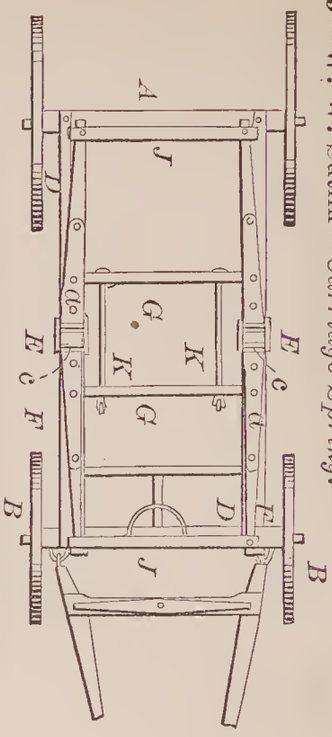
75996—W. C. Sparks—*Door Button.*



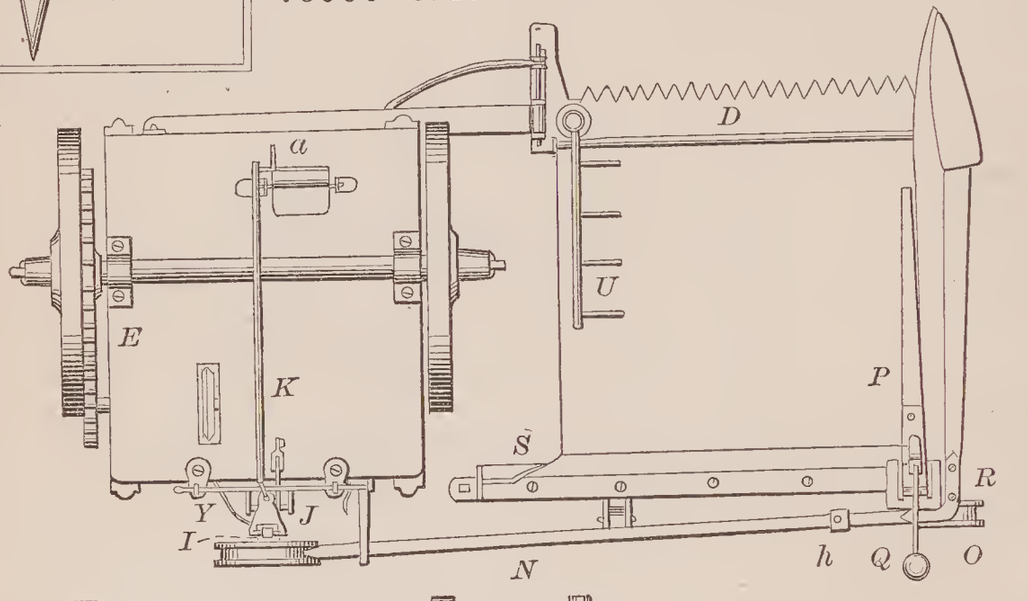
75998—Sutherland & Moakly—*Steam Pump Engine.*

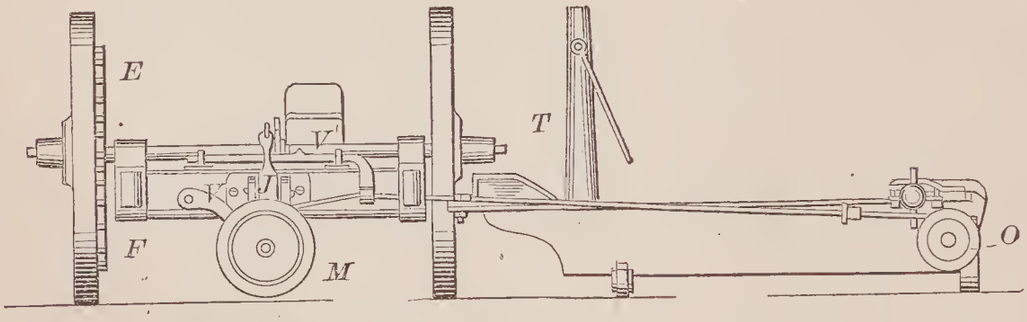


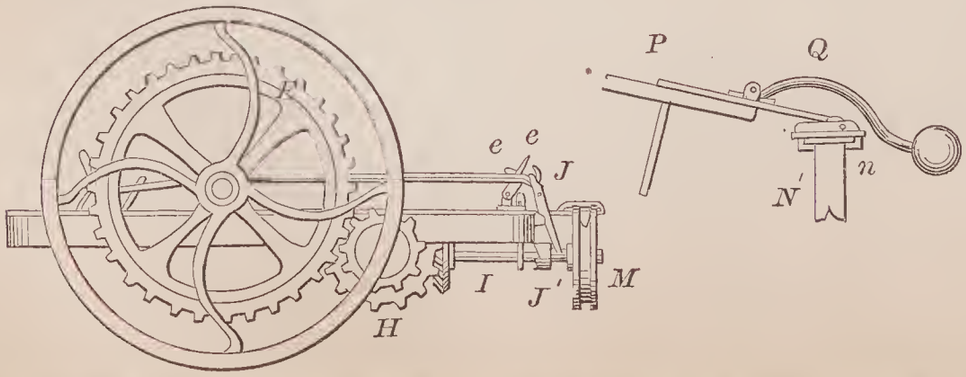
75999—W. W. Sutliff—*Carriage Spring.*



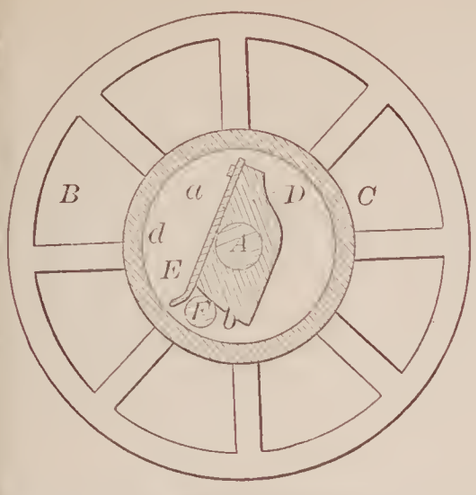
76000—J. B. Sweetland—*Harvester Rake.*



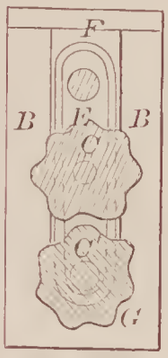




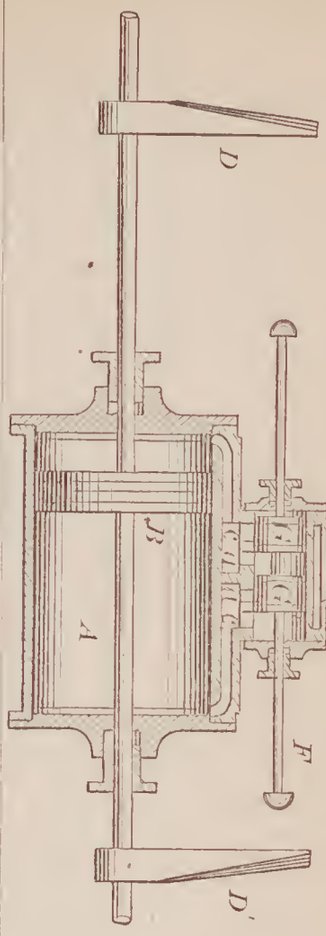
96001—D. H. Thayer—*Harvester.*



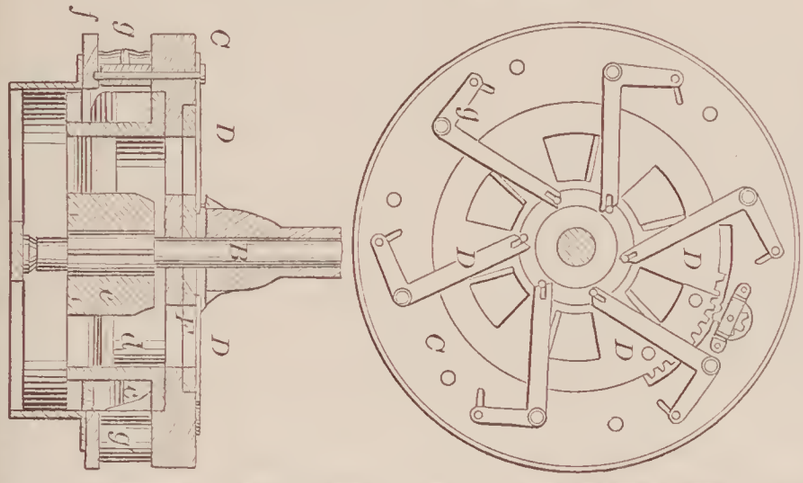
96004—J. P. Thompson—*Washing Machine.*



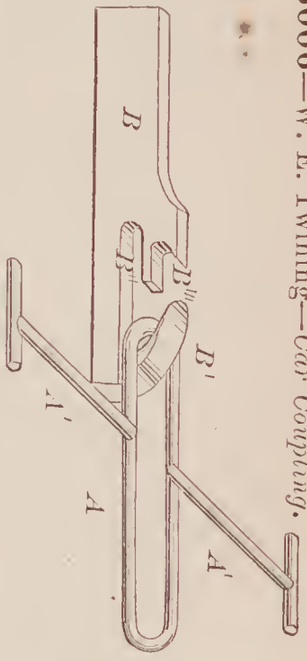
96002—Thomas & Evans—*Steam Engine Piston Valve.*



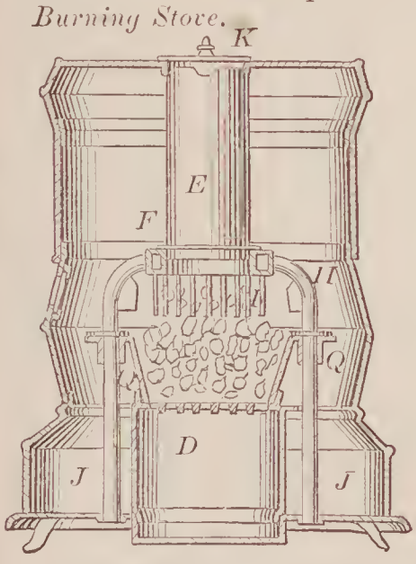
96003—I. M. Thompson—*Water Wheel.*



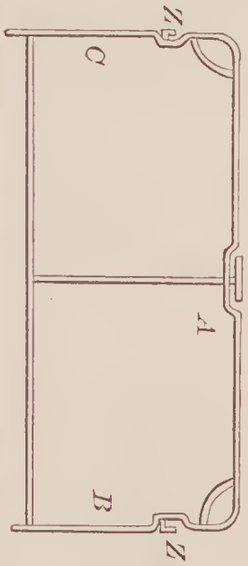
96006—W. E. Twining—*Car Coupling.*



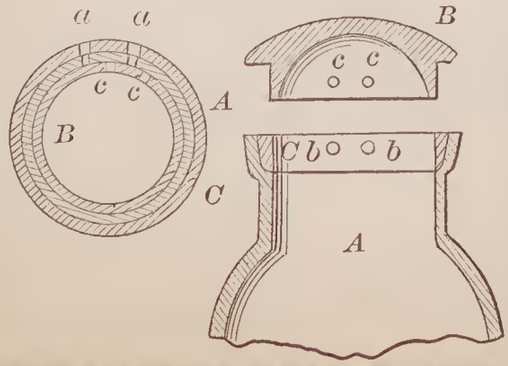
96005—R. B. Thompson—*Base Burning Stove.*



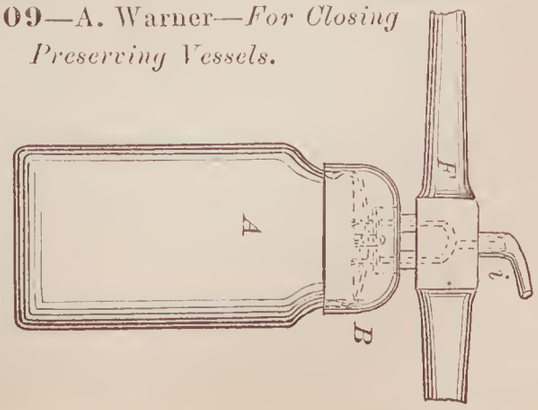
96007—P. Verplanck, Jr.—*Dash Board.*



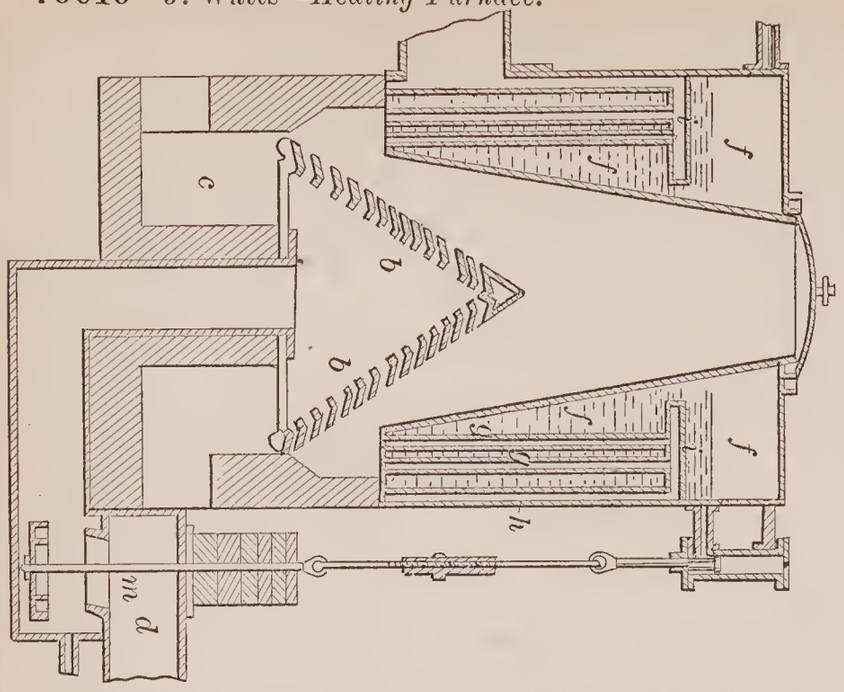
96008—A. Warner—*Fruit Jar.*



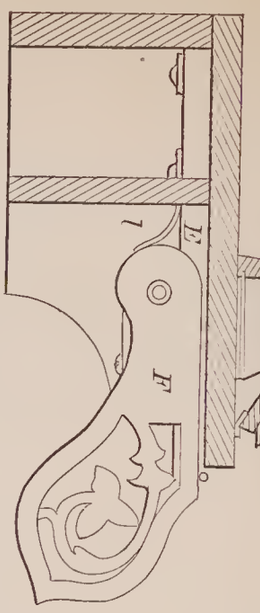
96009—A. Warner—*For Closing Preserving Vessels.*



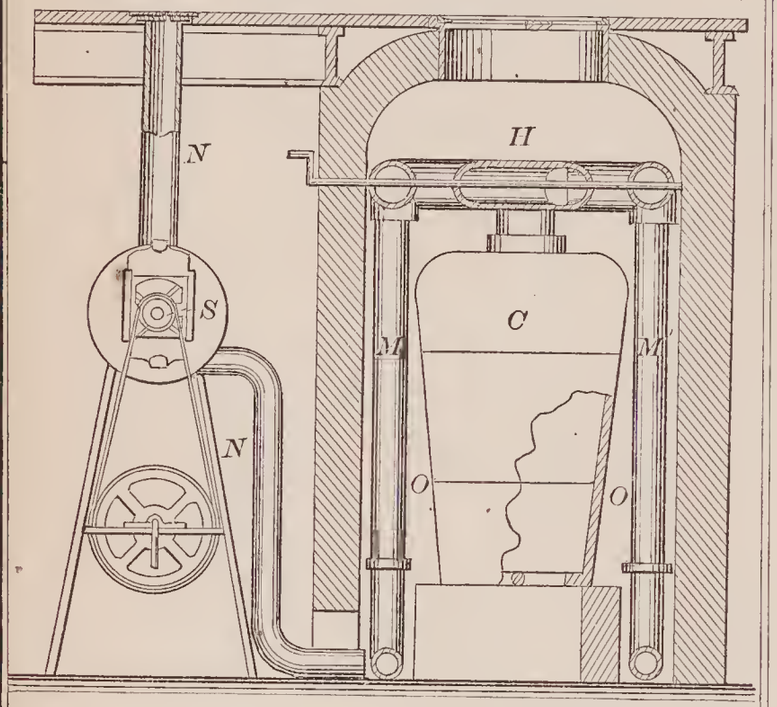
76010—J. Watts—*Heating Furnace.*



76013—F. A. Wells—*Reed Organ.*



76018—J. Whitehill—*Hot Air Furnace.*



76011—N. Webster—*Weeding Tool.*

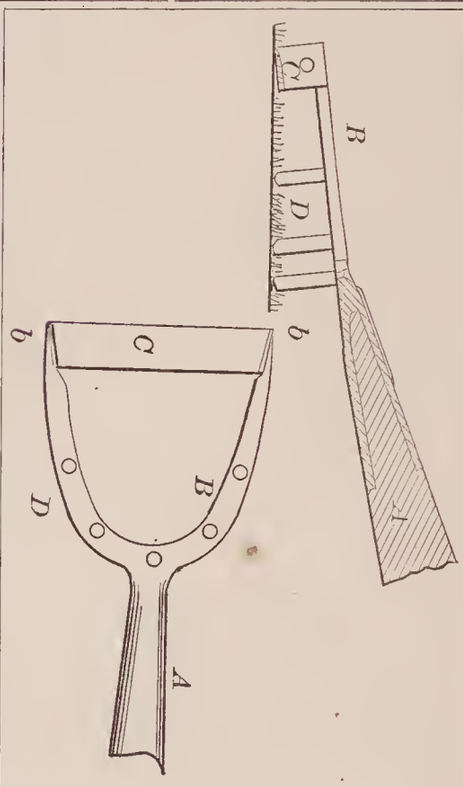
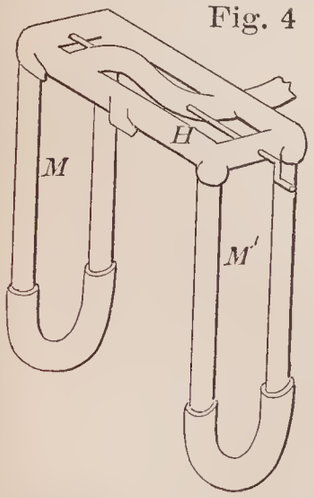
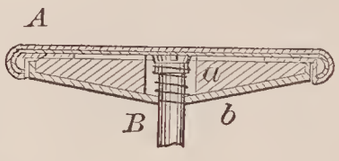
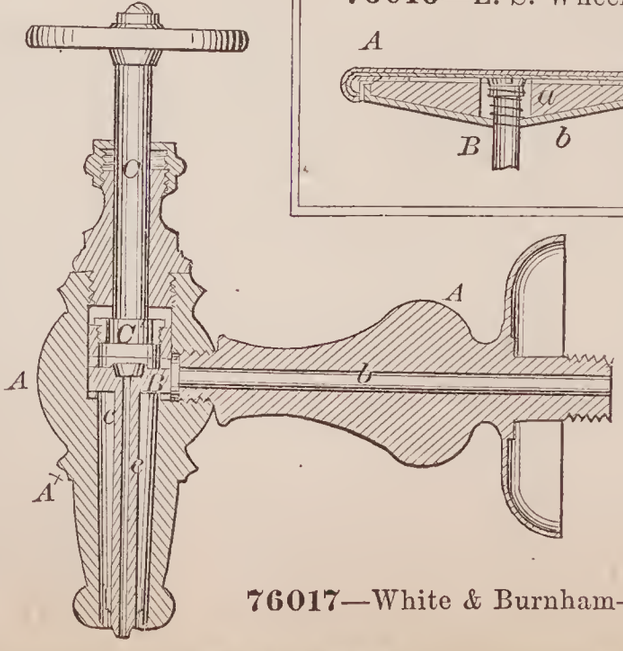


Fig. 4



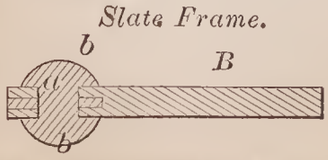
76016—E. S. Wheeler—*Button.*



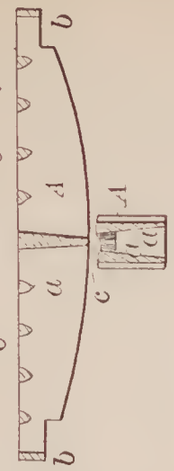


76017—White & Burnham—*Faucet.*

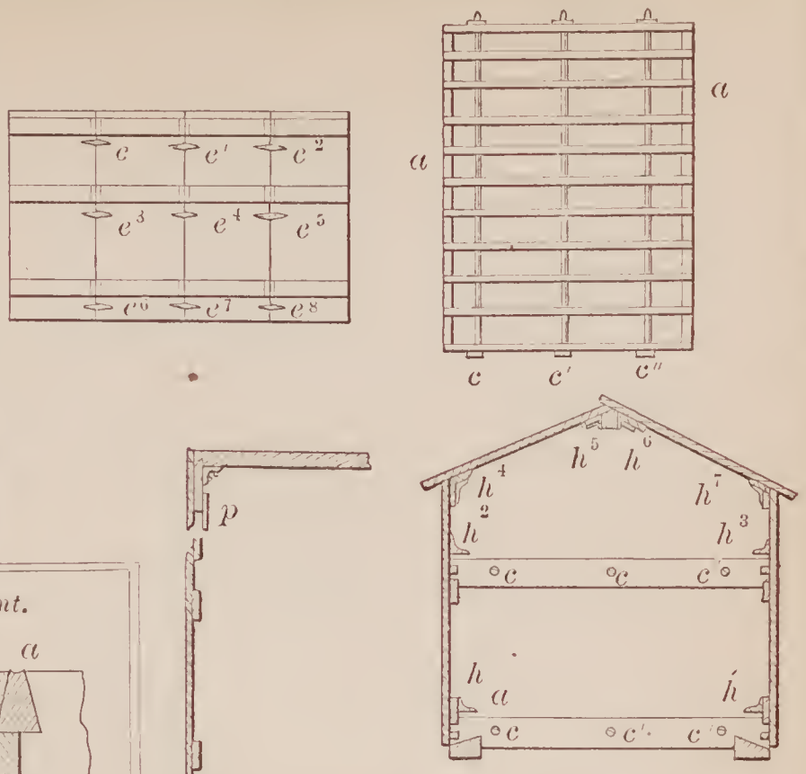
76014—W. C. Wendell—*Slate Frame.*



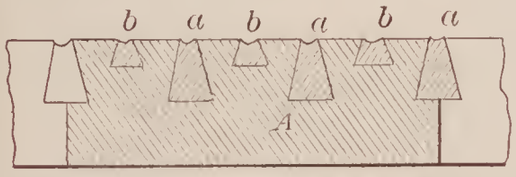
76023—Williams, Forgie & Edwards—*Furnace Grate Bar.*



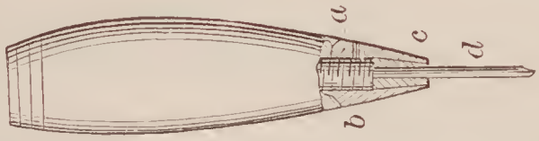
76019—D. S. Whittenhall—*Portable Building.*



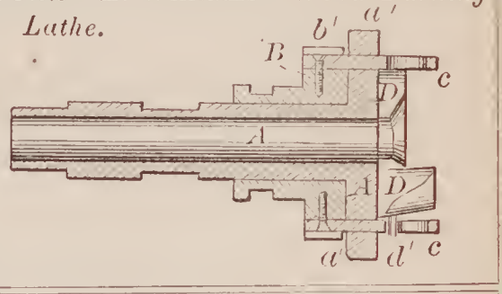
76021—C. Williams—*Pavement.*



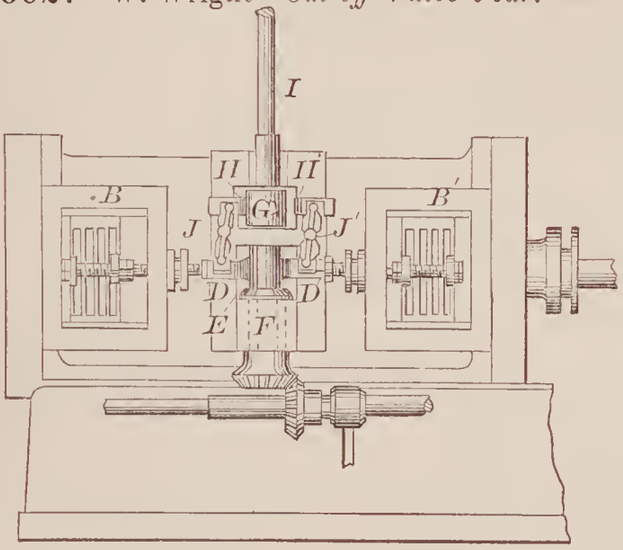
76020—D. R. Wight—*Awl Handle.*



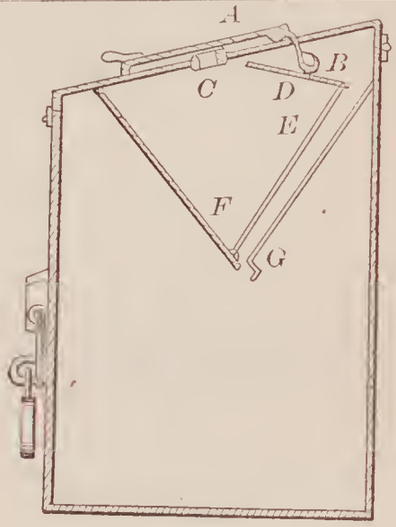
76022—E. Williams—*Wood Turning Lathe.*



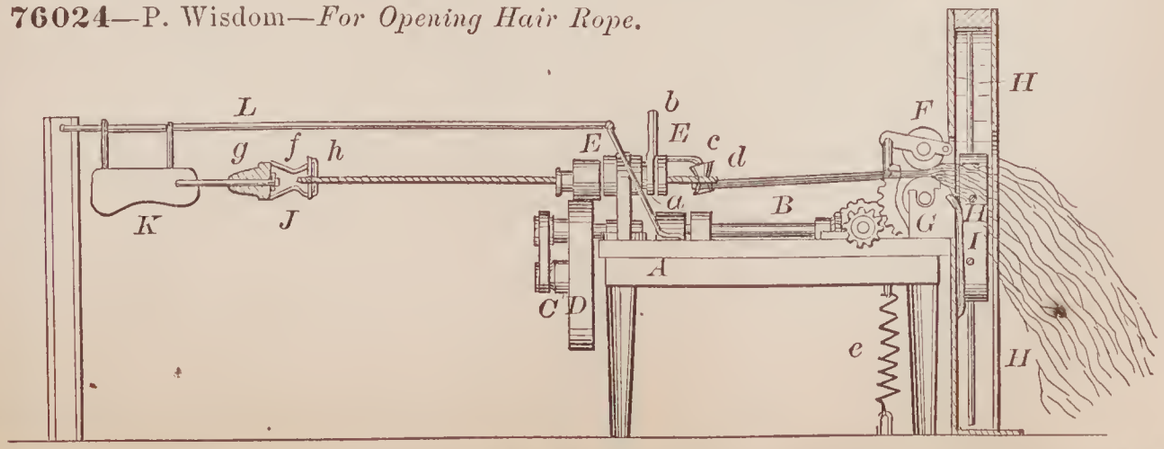
76027—W. Wright—*Cut-off Valve Gear.*



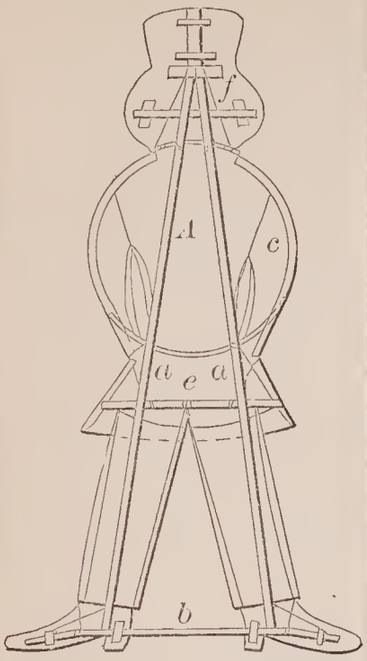
76026—J. E. Woodruff—*Letter Box.*



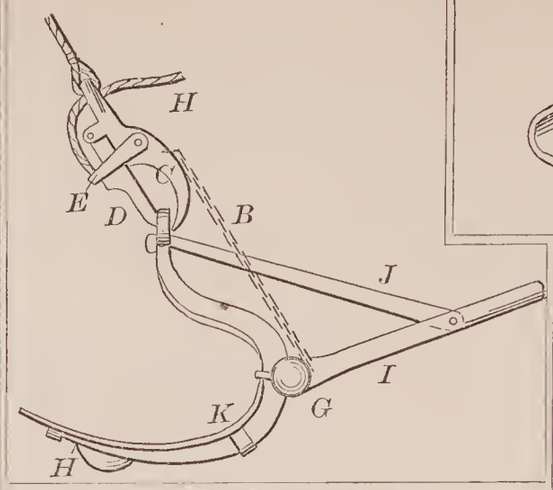
76024—P. Wisdom—*For Opening Hair Rope.*



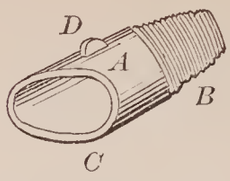
76028—Yorns & Smith—*Kite.*



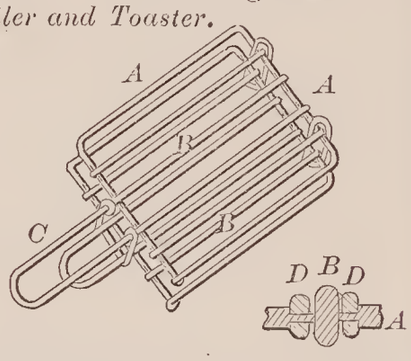
76029—W. Zimmerman—*Horse Hay Fork.*



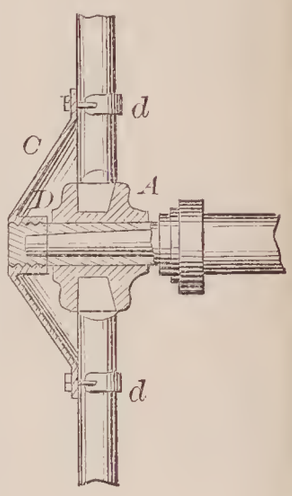
76030—A. Zinsser—*Tapping Piece for Barrels*



76032—Collier & Bigelow—*Broiler and Toaster.*

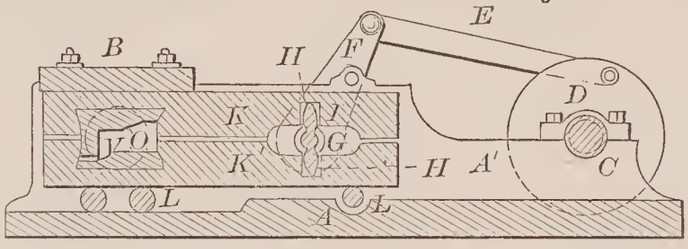


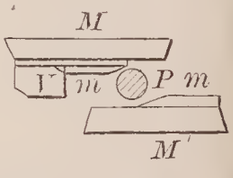
76033—L. Adams—*Carriage Wheel.*



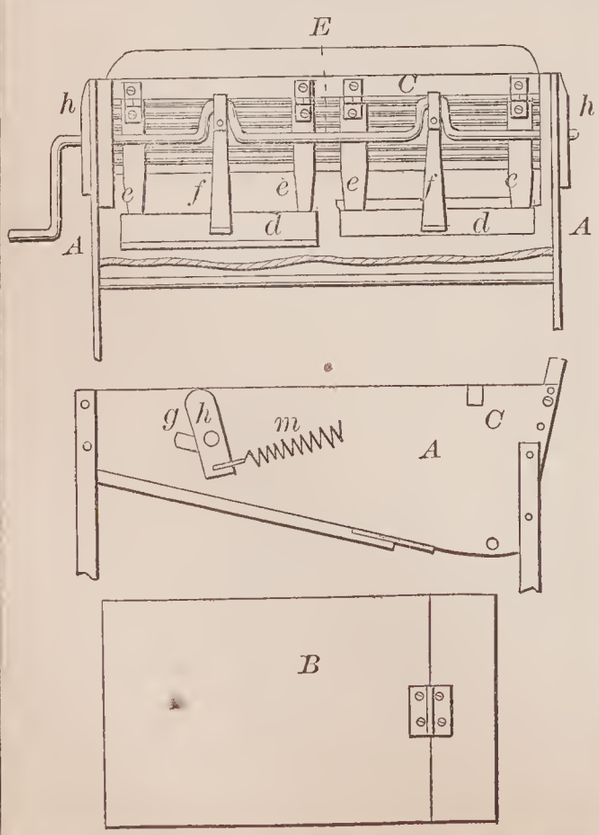
76034—J. Adt—*Hinge.*

76035—A. Alexander—*For Shearing Bolts.*

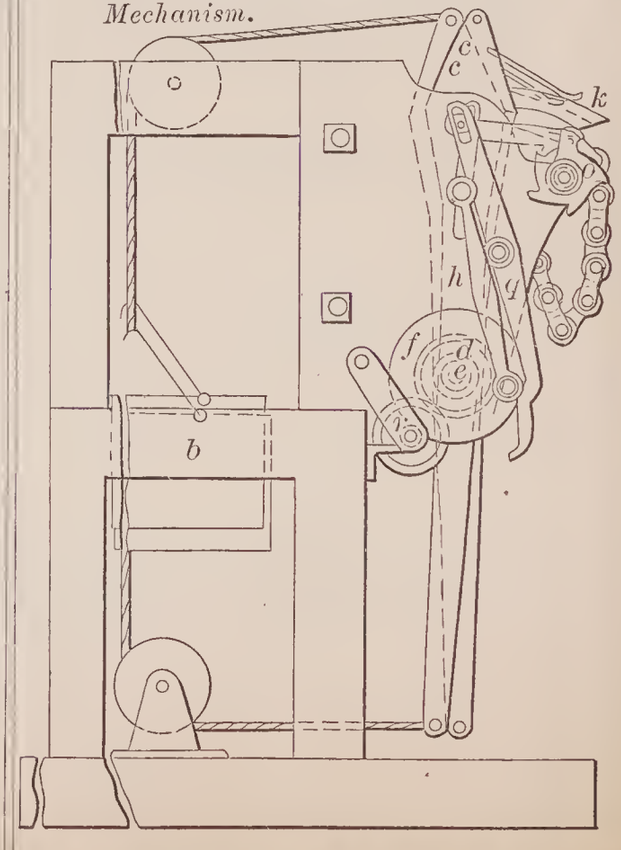




76037—D. W. Bancroft—*Washing Machine.*

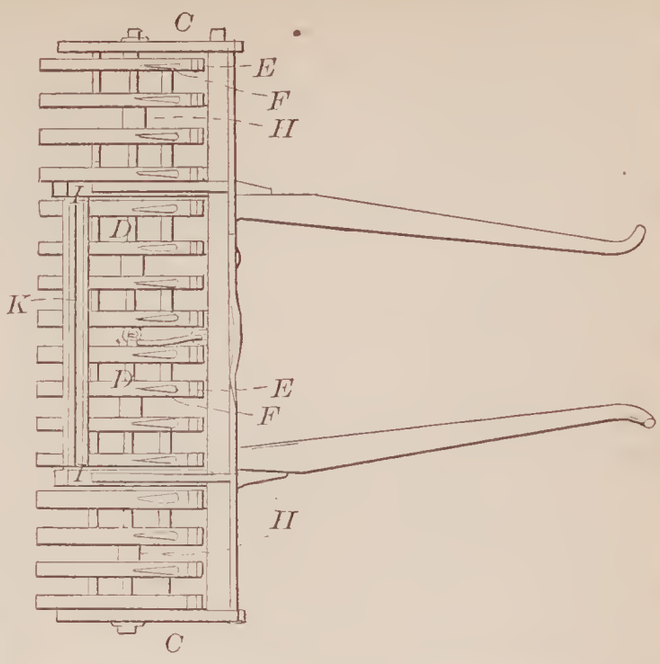


76036—Bachelder & Bliss—*Loom Mechanism.*



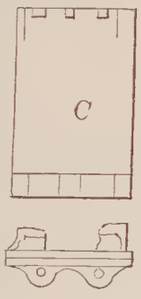
76038—Banister & Rowell—*For Lacing Boots.*

76040—H. L. Beach—*Horse Rake.*



76041—C. Bender—*Wire Truss Bridge.*

Fig.s 3



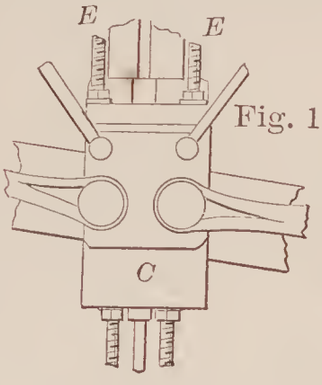


Fig. 1

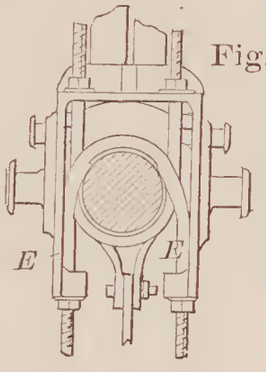


Fig. 2

Fig. 4

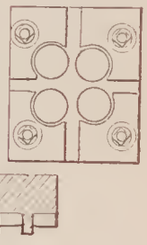
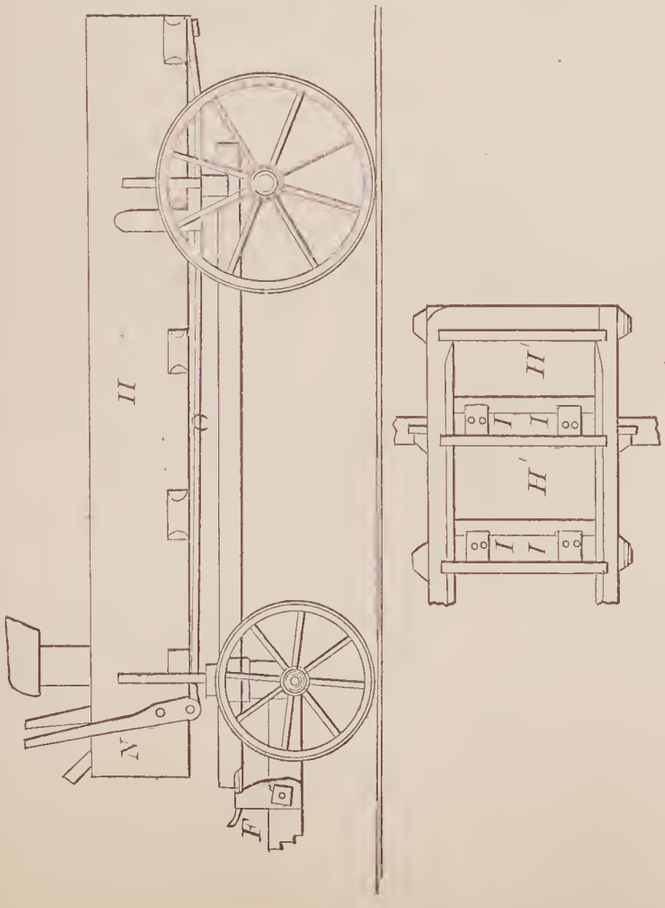
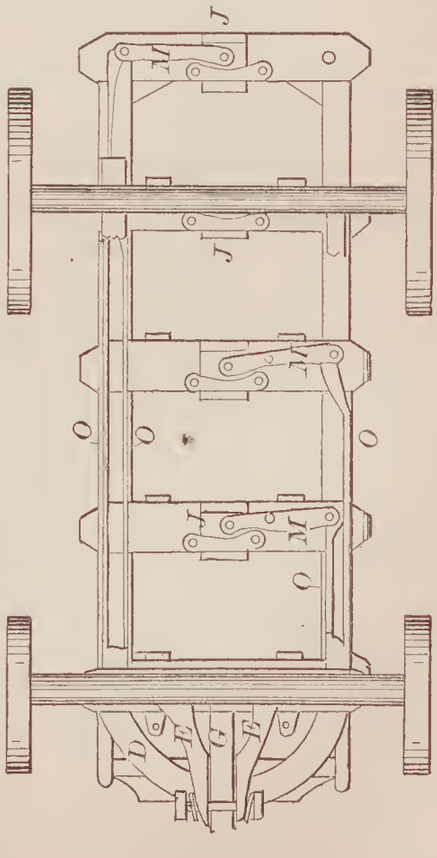


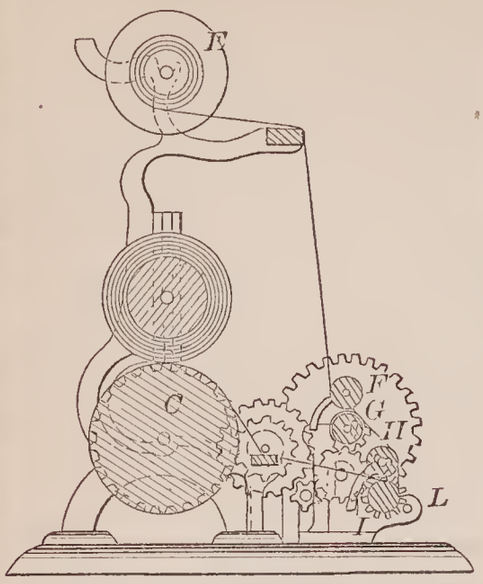
Fig. 5

76039—H. Barton—*Dumping Wagon.*

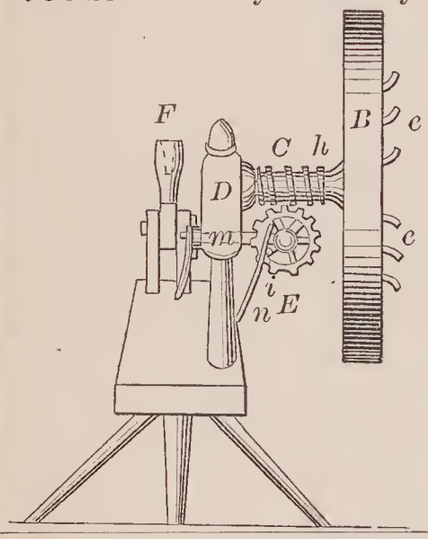




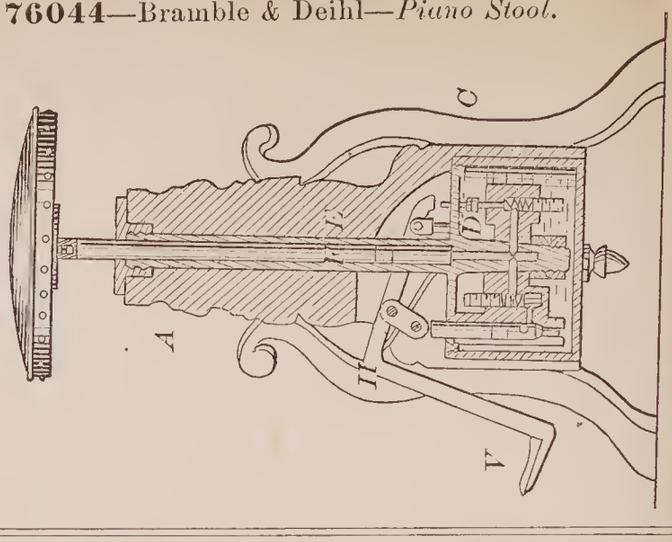
76042—J. W. Bentley—*For Manufacturing Clouded Yarn.*



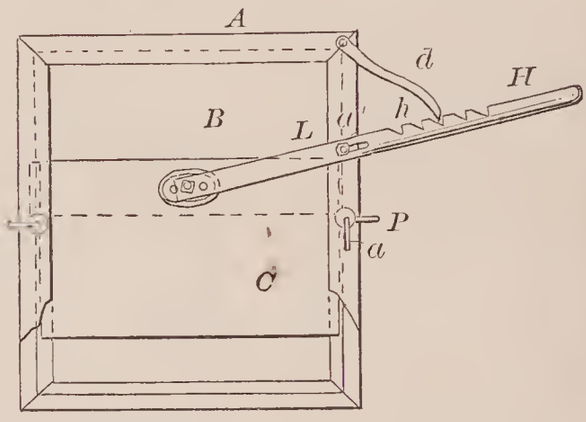
76043—Bradway & Bradley—*Reel.*



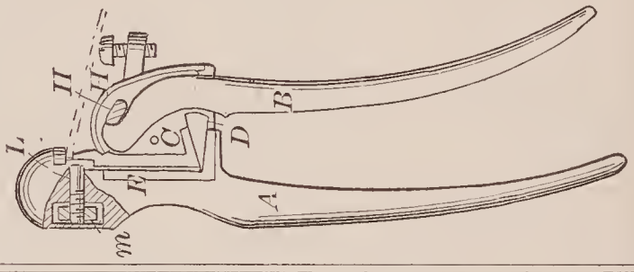
76044—Bramble & Deihl—*Piano Stool.*



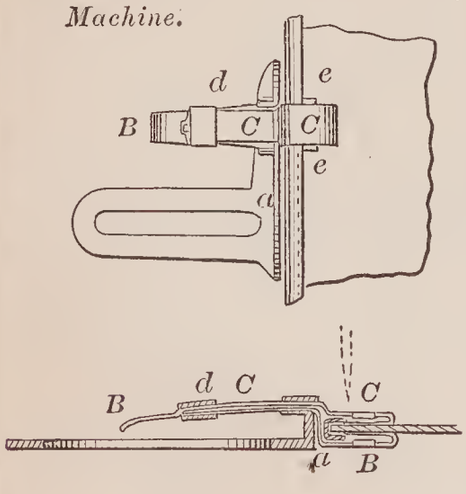
76045—J. W. Branham—*Draught Regulator.*



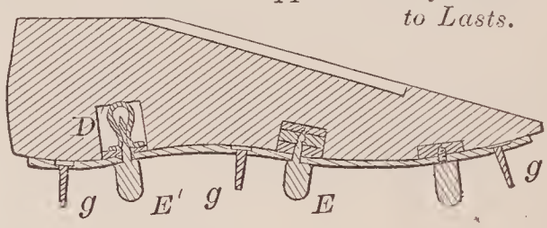
76046—J. F. Brodhead—*Saw Set.*



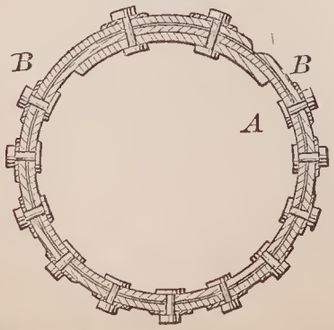
76047—C. H. Buck 2d—*Sewing Machine.*



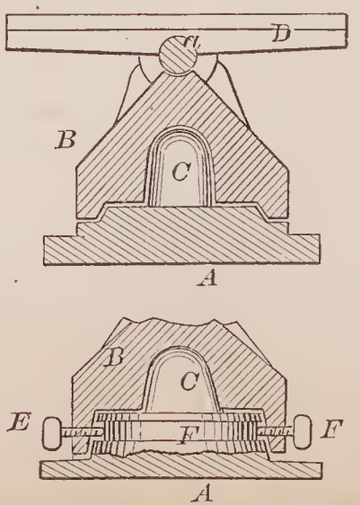
76048—C. Buffum—*Application of Inner Soles to Lasts.*



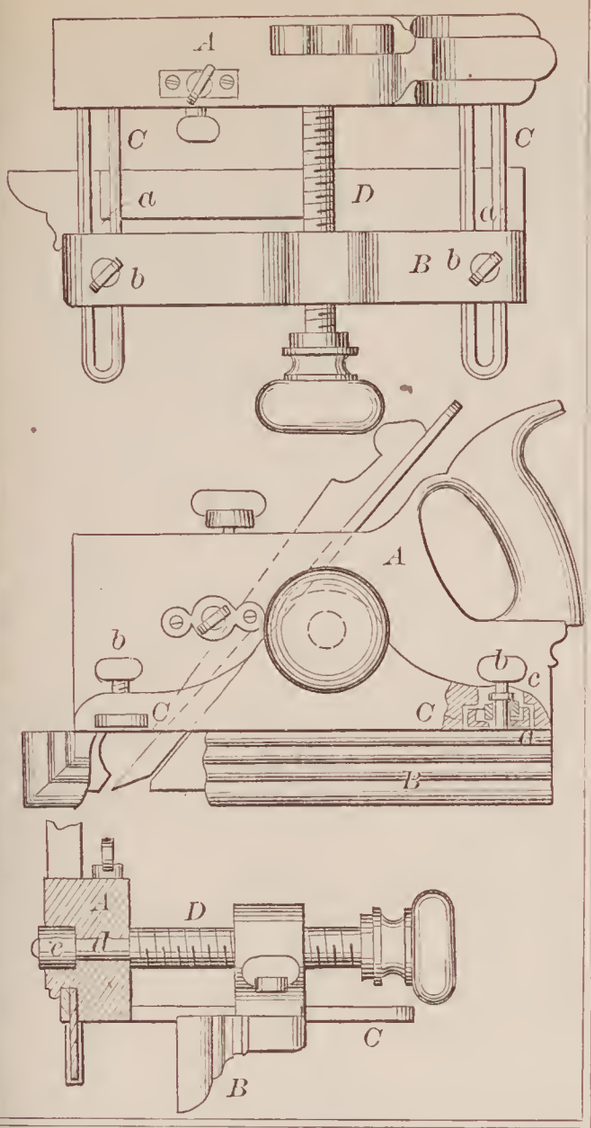
76049—A. Carney—*Hose.*



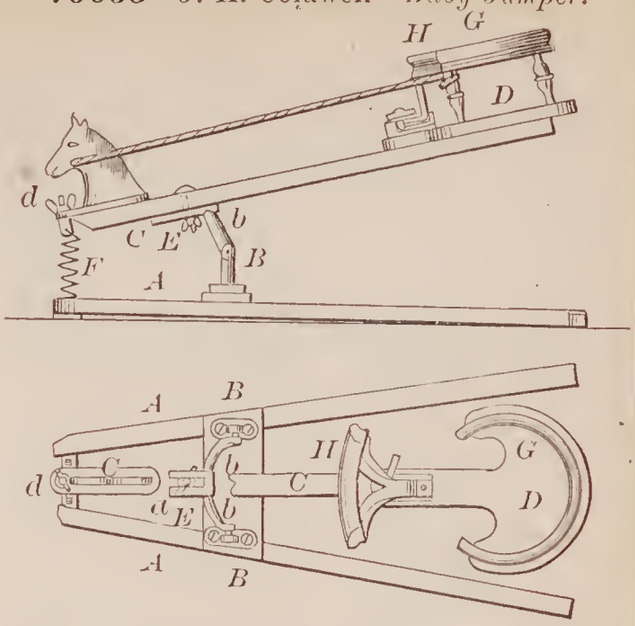
76050—J. B. Case—*Lever Purchase.*



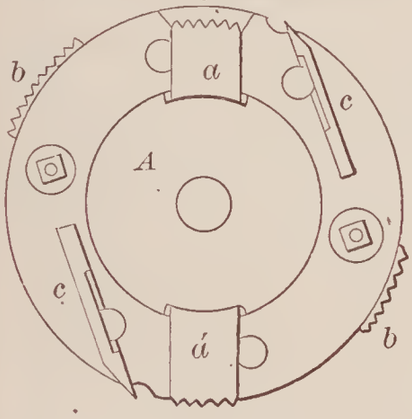
76051—Chapin & Rust—*Plane.*



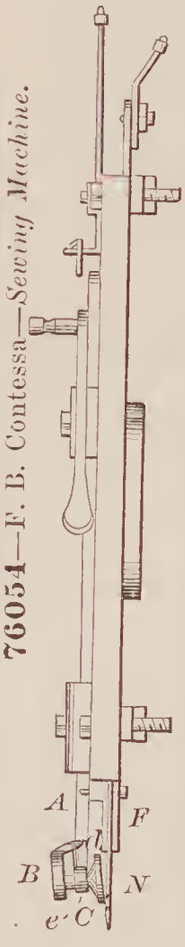
76053—J. H. Coldwell—*Baby Jumper.*



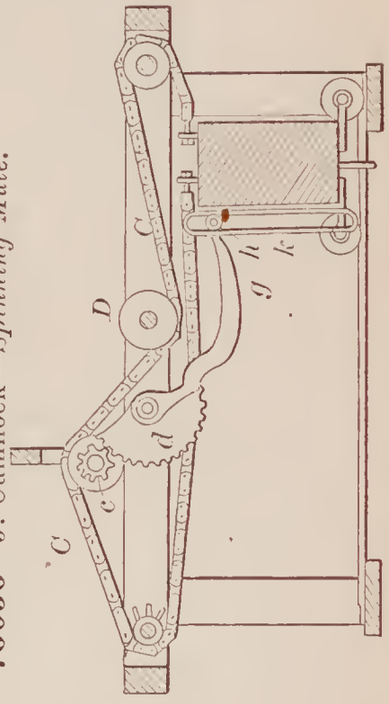
76052—M. W. Clark—*Cutter Head for Tenoning Blind Slats.*



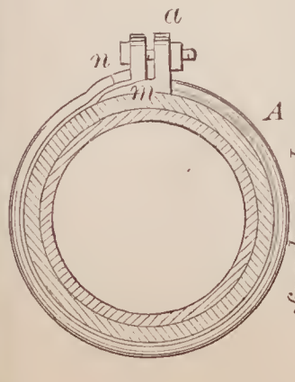
76054—E. B. Contessa—*Sewing Machine.*



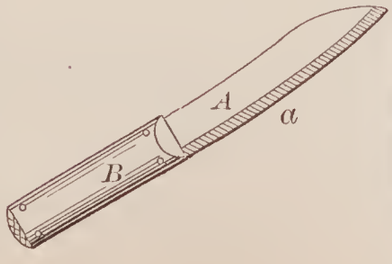
76056—J. Cummock—*Spinning Mule.*



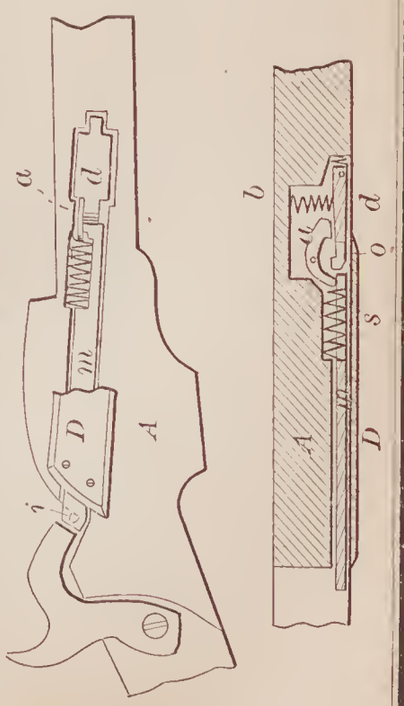
76057—Curtis & Tewksbury—*Hose and Pipe Coupling.*



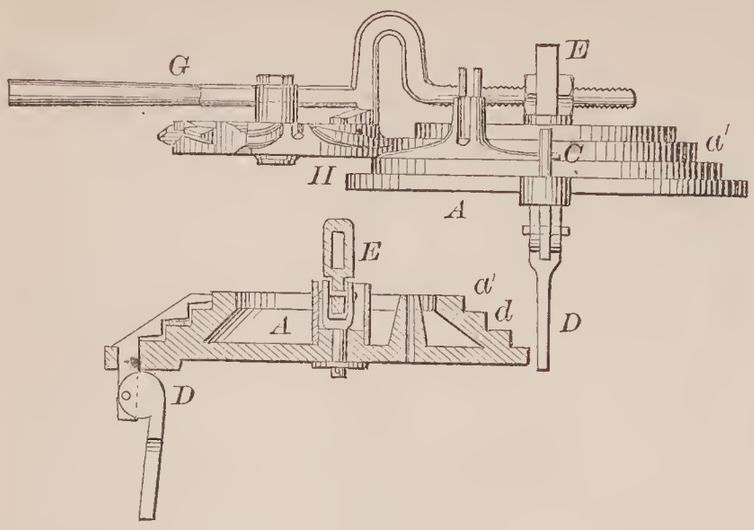
76055—F. Coulon—*For Cutting Straw Bands.*



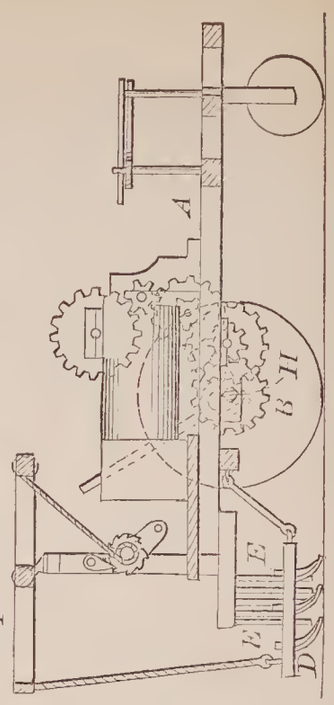
76058—B. P. Cutler—*Safety Guard for Fire Arms.*



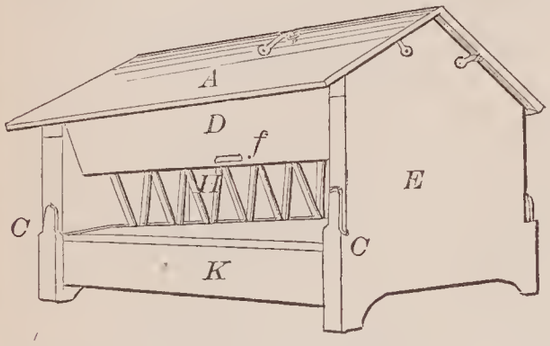
76059—S. S. Daniels—*For Bending Carriage Circles.*



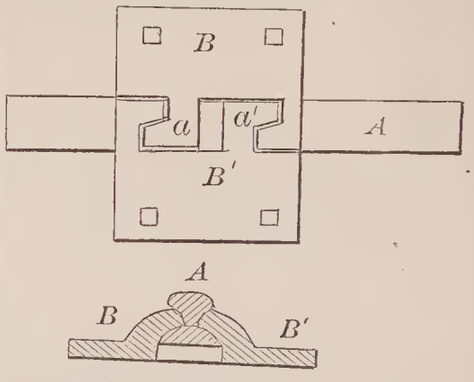
76060—J. C. Delavigne—*Steam Plow.*



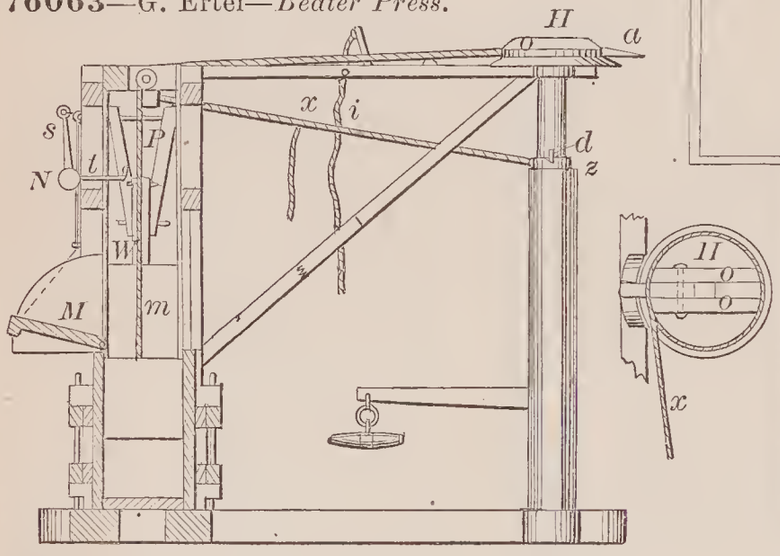
76061—J. Depue—*Feed Trough and Rack.*



76062—A. Elms—*Railway Chair.*



76063—G. Ertel—*Beater Press.*



76064—D. H. Fanning—*Hoop Skirt.*

Fig. 2

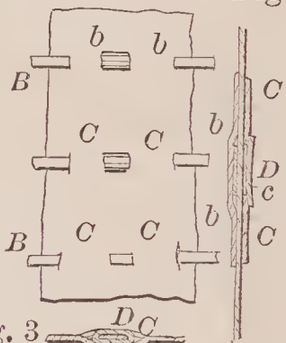
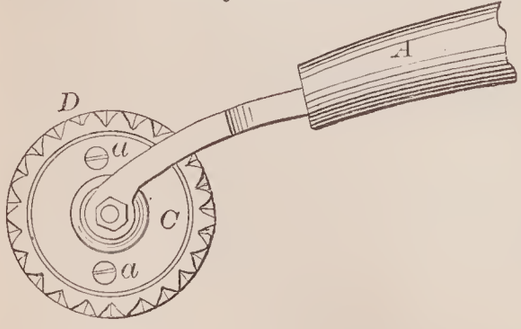
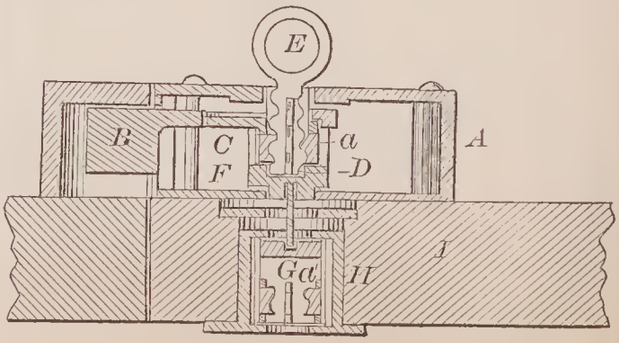


Fig. 3

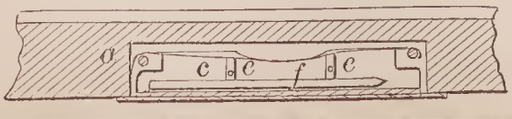
76065—J. Feely—*Bookbinders' Roll.*



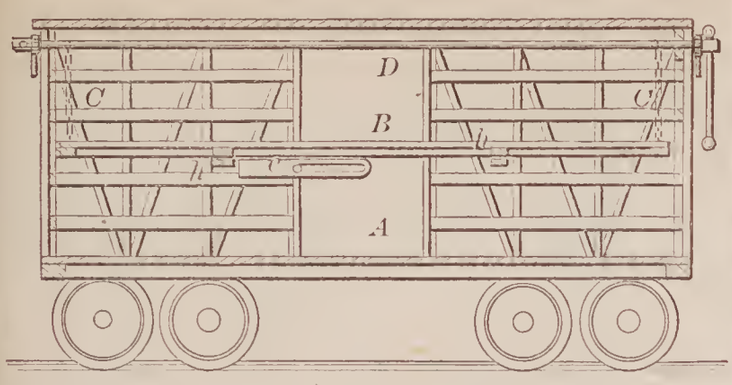
76066—P. S. Felter—*Door Lock.*



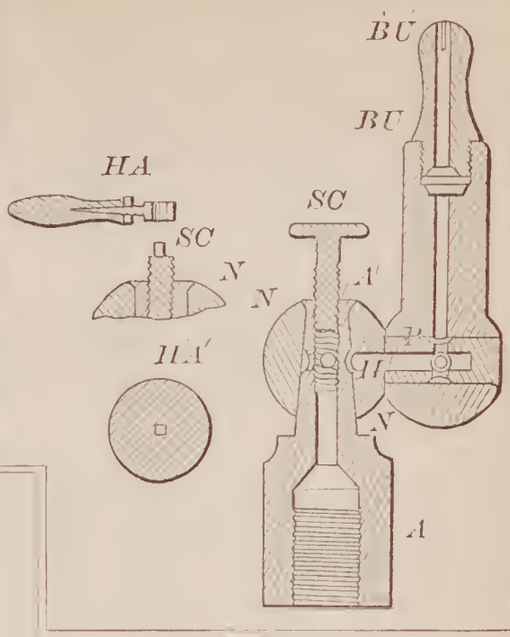
76068—J. H. Foote—*Slate Frame.*



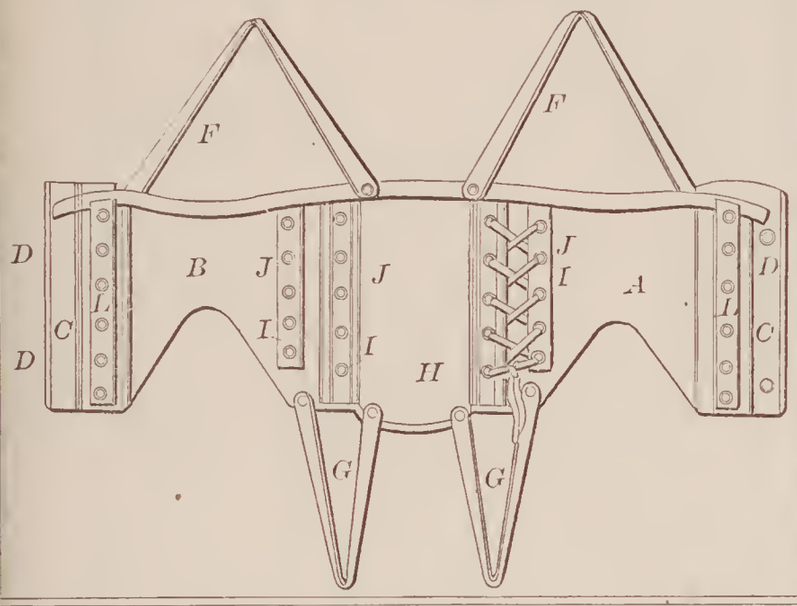
76067—E. Fontaine—*Cattle Car.*



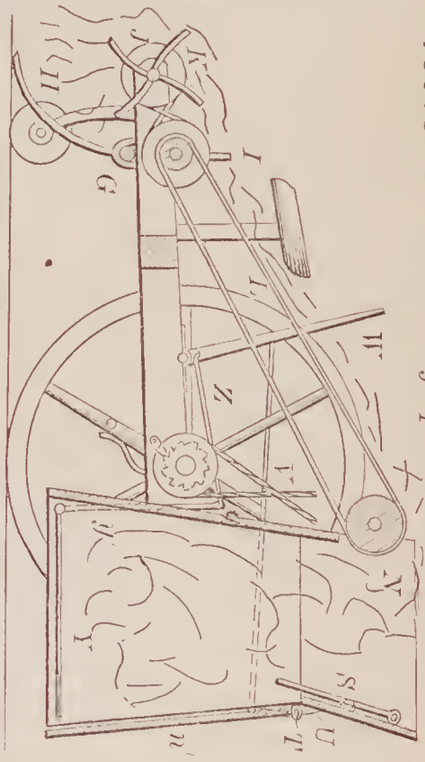
76069—C. S. Ford—*Gas Burner.*



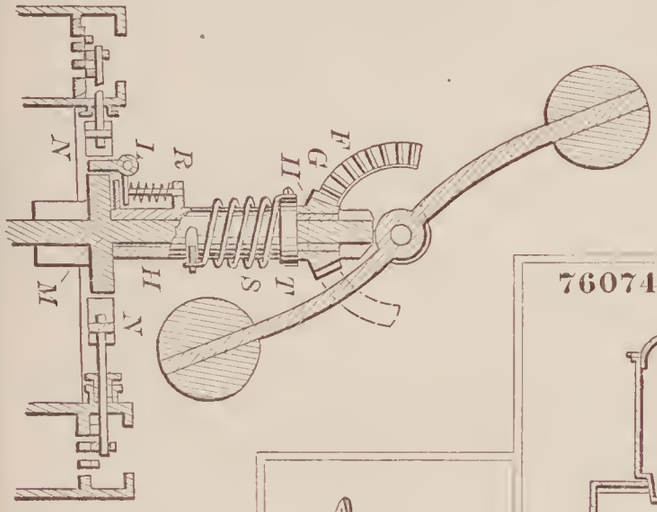
76070—J. Ford—*Abdominal Supporter.*



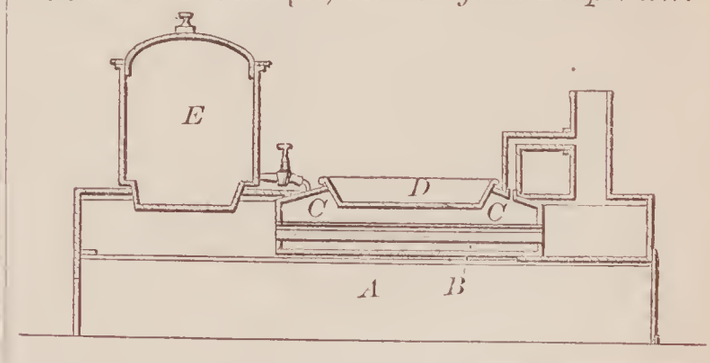
76073—R. T. Gill—*Hay Spreader and Cocker.*

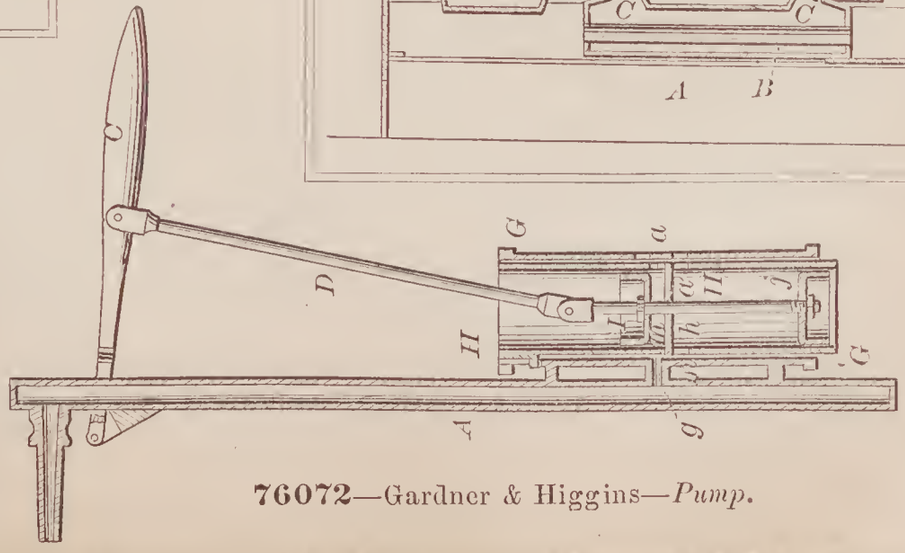


76071—L. F. Fuller—*Steam Engine Governor.*



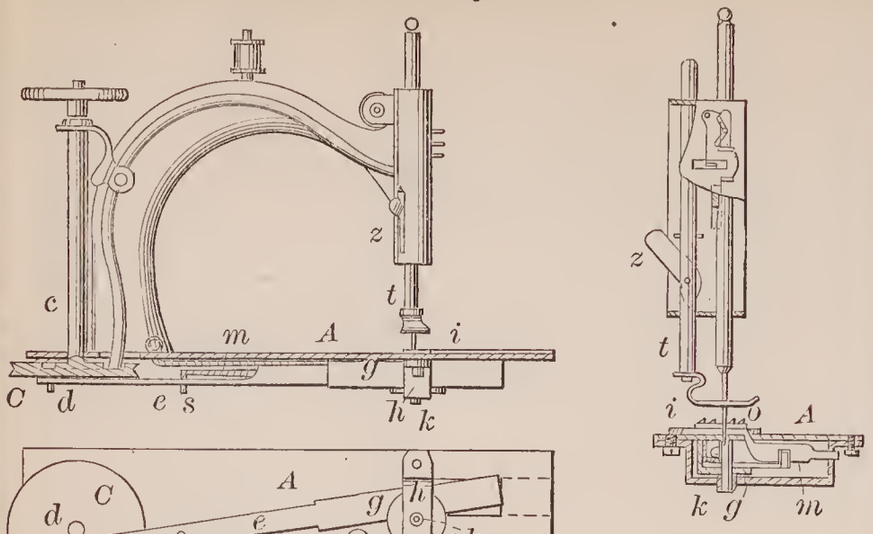
76074—T. Gillespie, Jr.—*Sorghum Evaporator.*

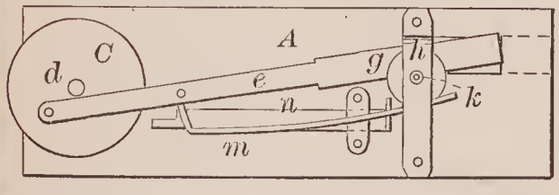




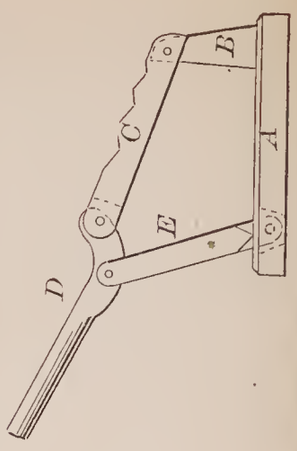
76072—Gardner & Higgins—*Pump.*

76076—A. W. Halbert—*Sewing Machine.*

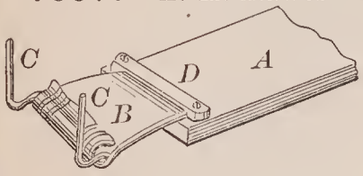


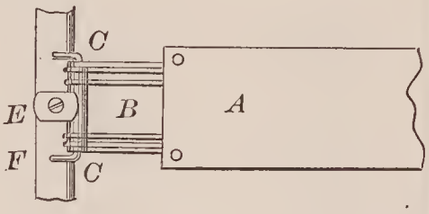


76075—T. L. Goble—*Wagon Jack.*

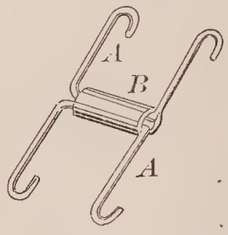


76077—L. K. Hawes—*Bed Bottom.*

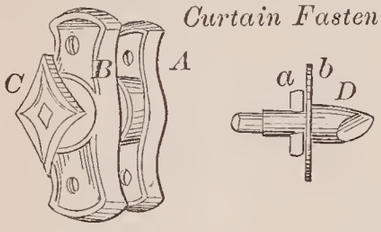




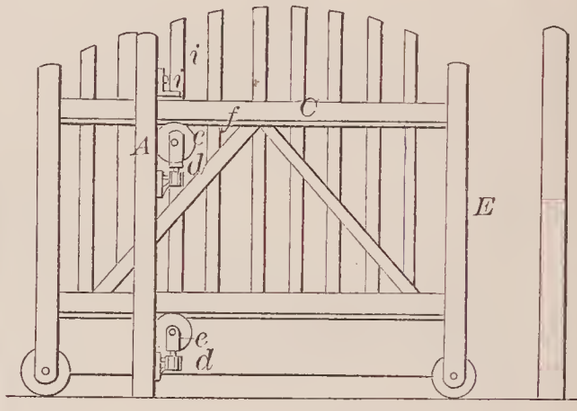
76082—F. J. Jones—*Belt Hook.*



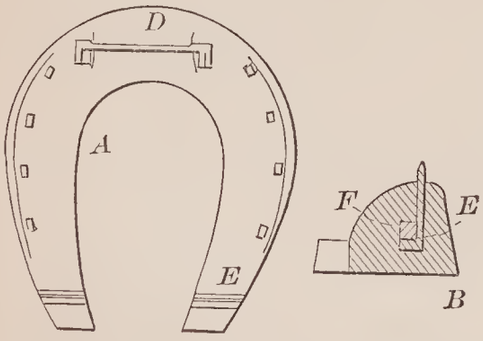
76080—Huston & Stanford—*Carriage Curtain Fastening.*



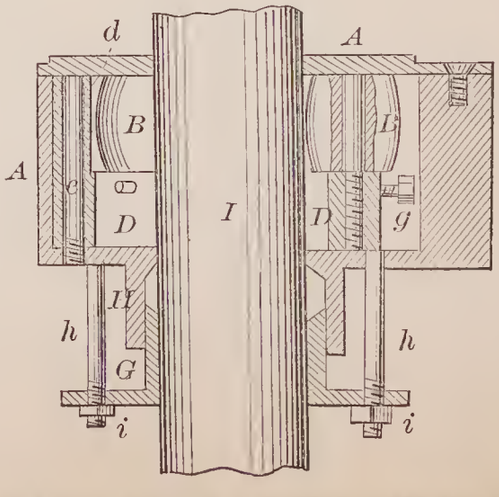
76081—J. L. Janeway—*Gate.*



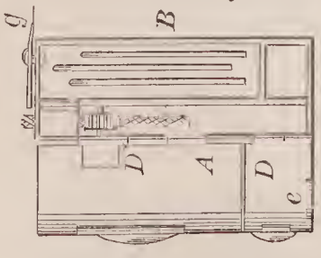
76078—A. S. Hopson—*Horse Shoe.*



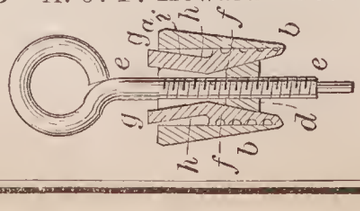
76083—S. Kime—*Shaft Bearing on Millstone Bush.*



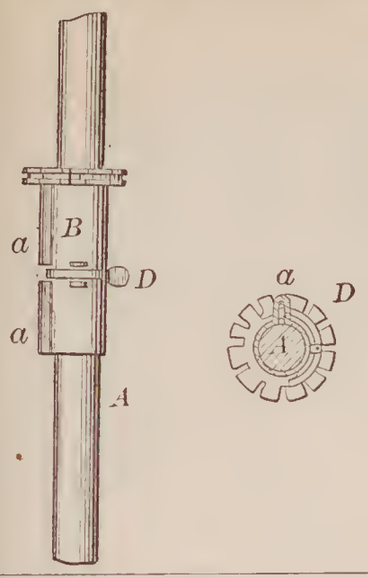
76084—Kirchfeld & Heyl—*Mateh Box.*



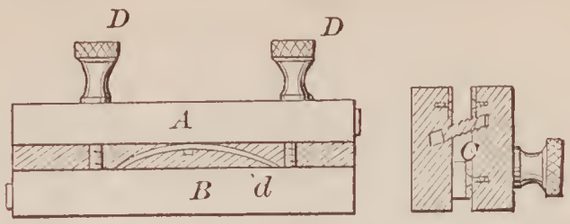
76079—A. J. F. Howard—*Boot Crimper.*



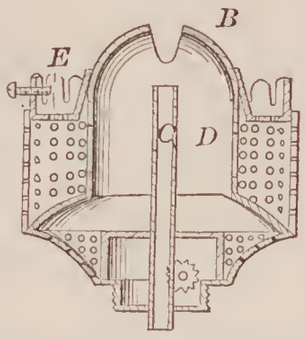
76085—W. Lang—*Umbrella.*



76086—W. H. Leach—*Seissors Sharpener.*

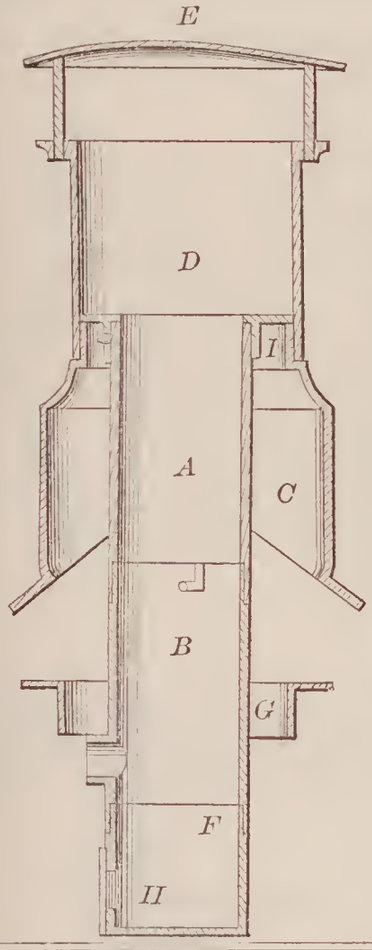


76089—J. Magee—*Lamp Burner.*

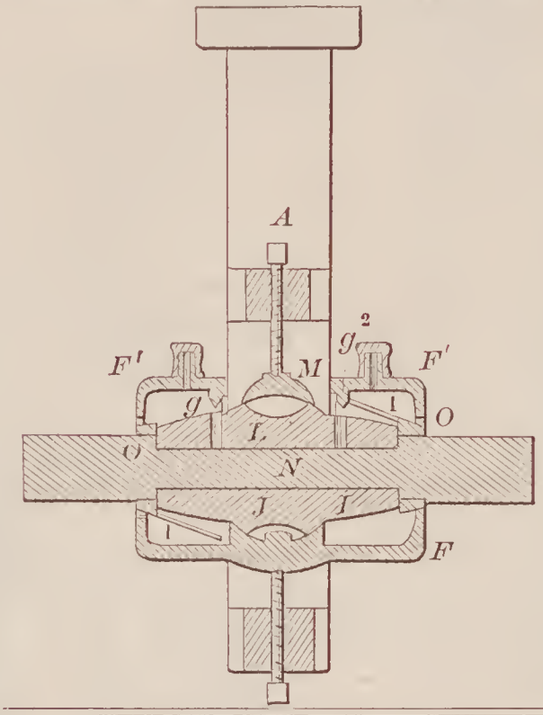


76088—E T. Ligon—*Joint of Steel Plates.*

76094—A. W. McMillen—*Cast Iron Chimney.*

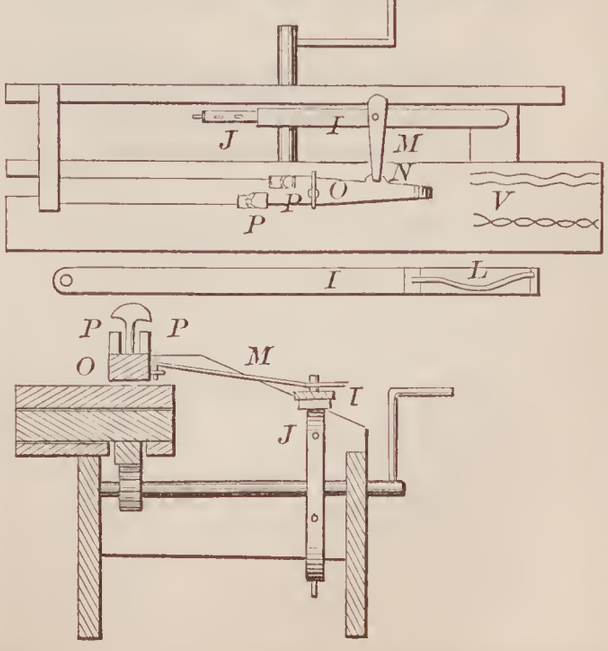


76092—I. D. Mathews—*Journal Box.*

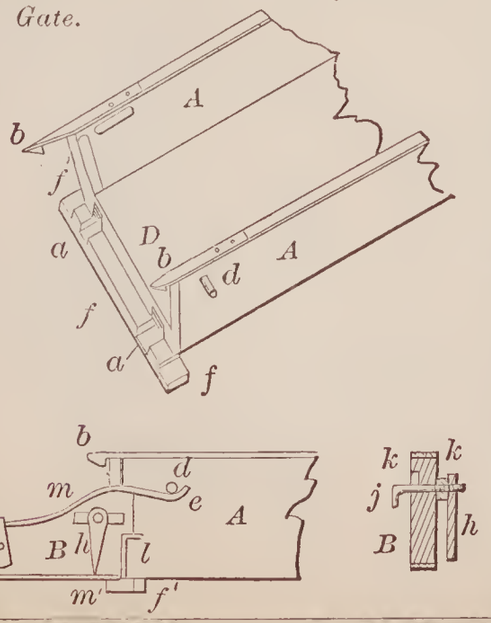


76090—E. P. Marble—*Shuttle.*

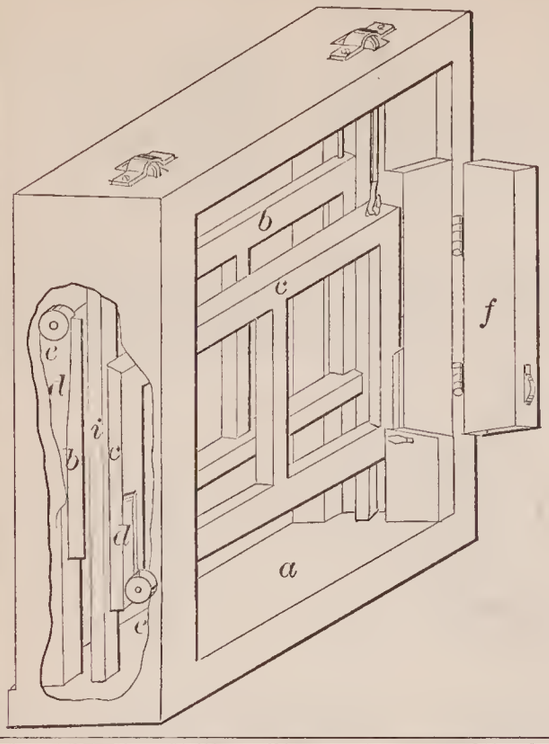
76093—A. McCreight—*Carving Machine.*



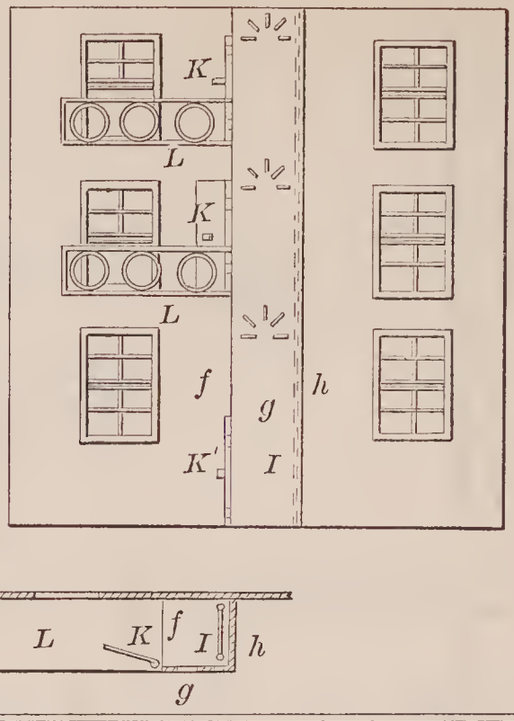
76095—E. S. Miller—*Wagon End Gate.*



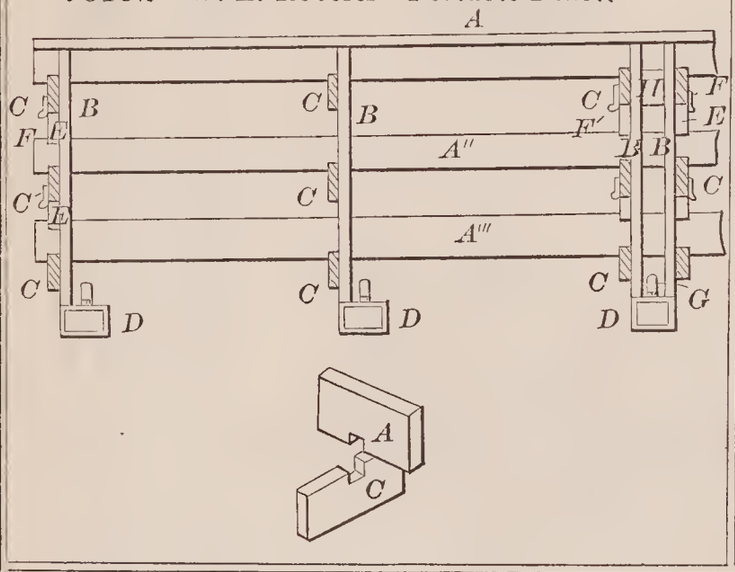
76096—J. H. Osgood, Jr.—*Window Sash Frame.*



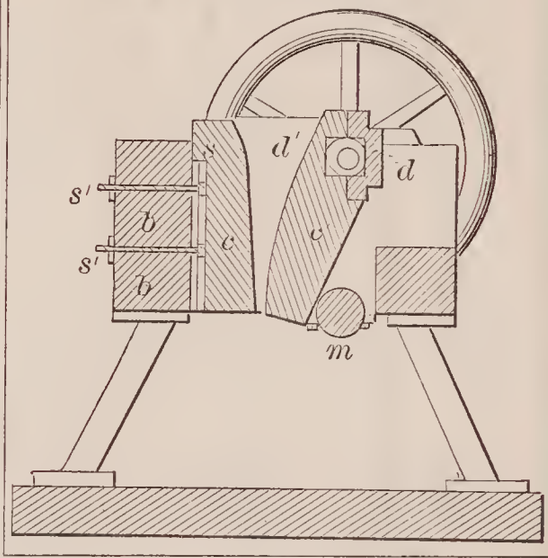
76097—J. Paar—*Fire Escape.*



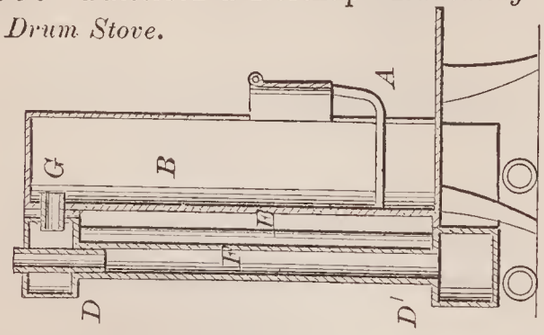
76102—W. E. Roberts—*Portable Fence.*



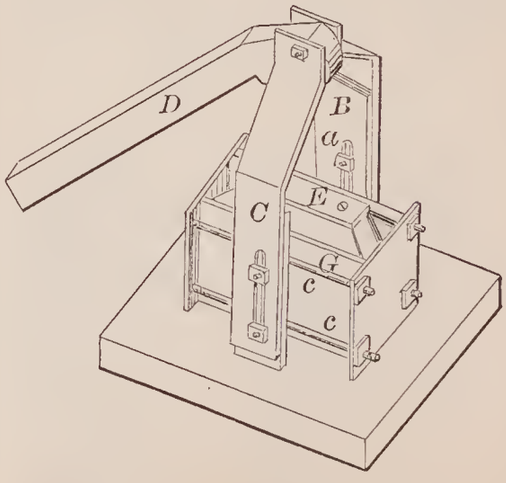
76100—J. Reese—*Ore Crusher.*



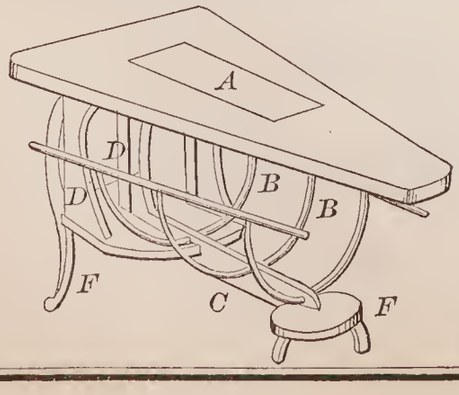
76099—Patterson & Northup—*Radiating Drum Stove.*



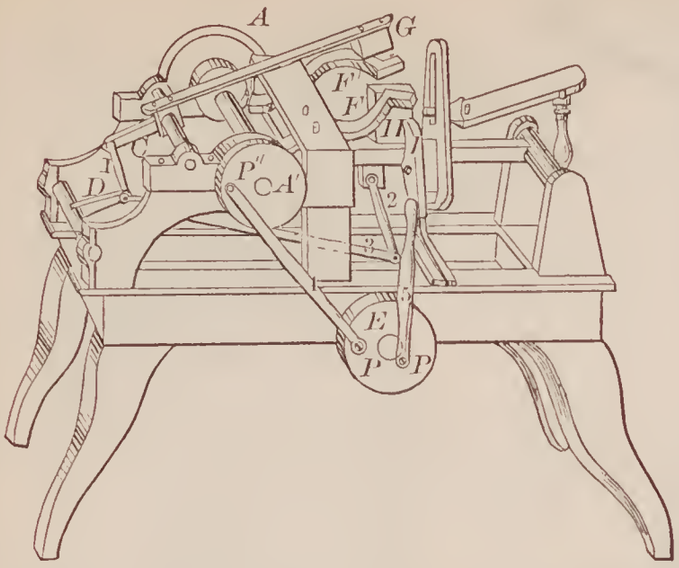
76101—C. O. & J. H. Ritchie—*Press.*



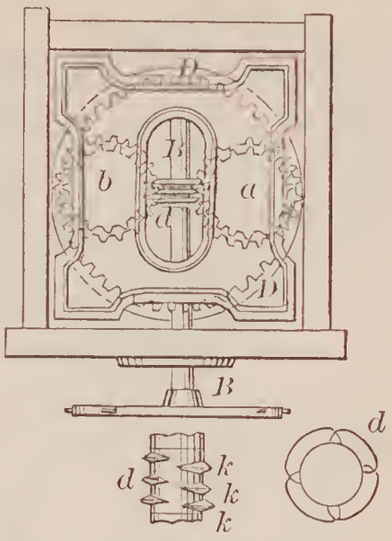
76098—H. Park—*Ironing Table.*



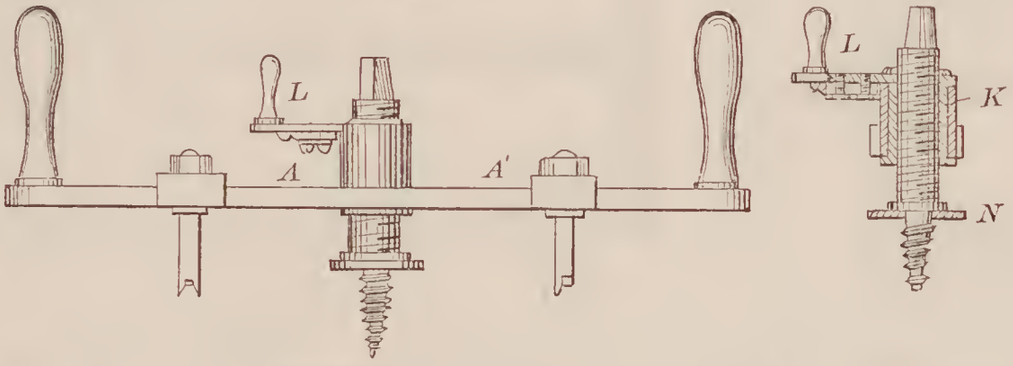
76104—G. W. Sargent—*Nail Machine.*



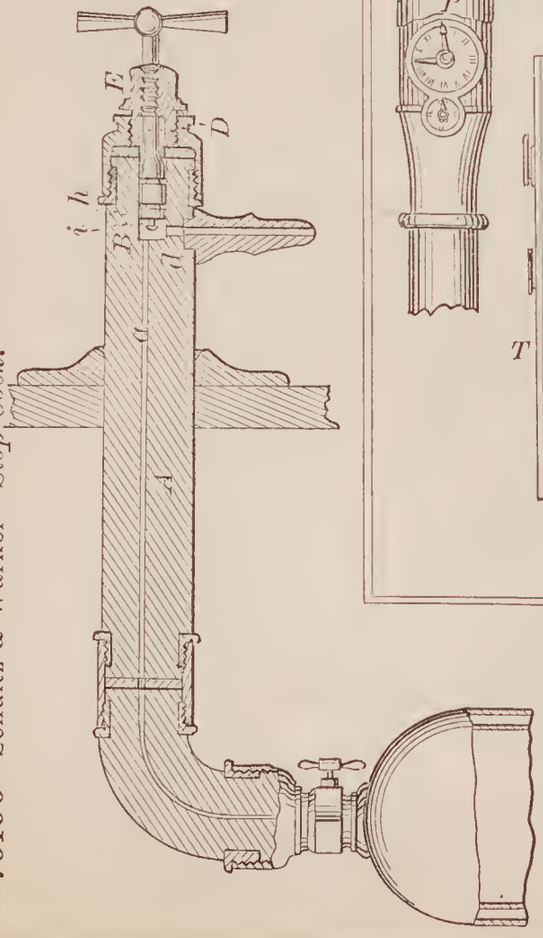
76105—C. H. Sawyer—*Steering Apparatus.*



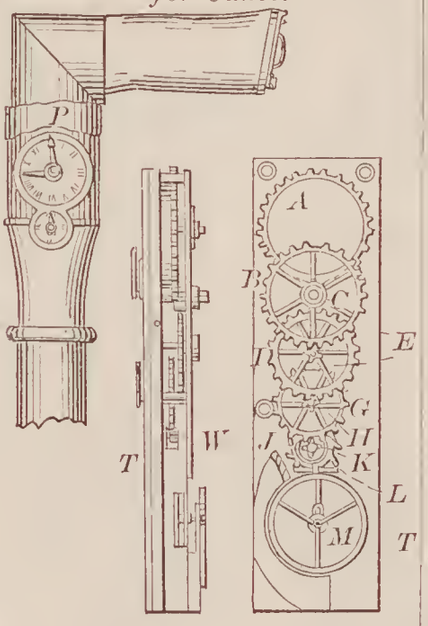
76103—A. Roff—*Wood Boring Machine.*



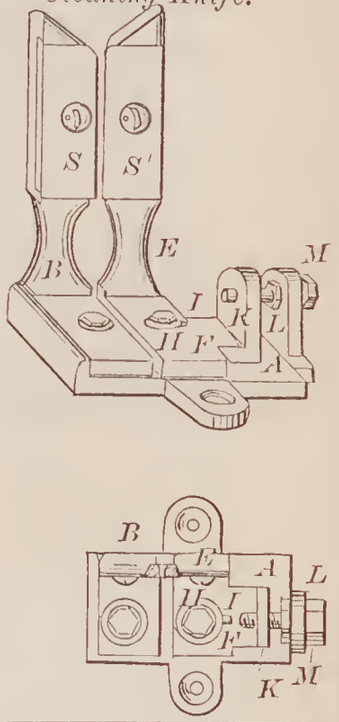
76106—Schultz & Warker—*Stop Cock.*



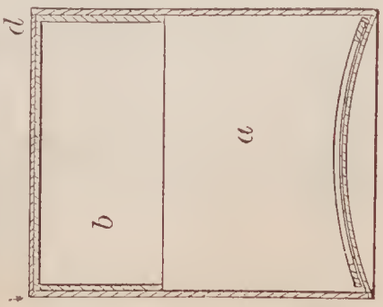
76108—S. B. Simon—*Watch for Canes.*



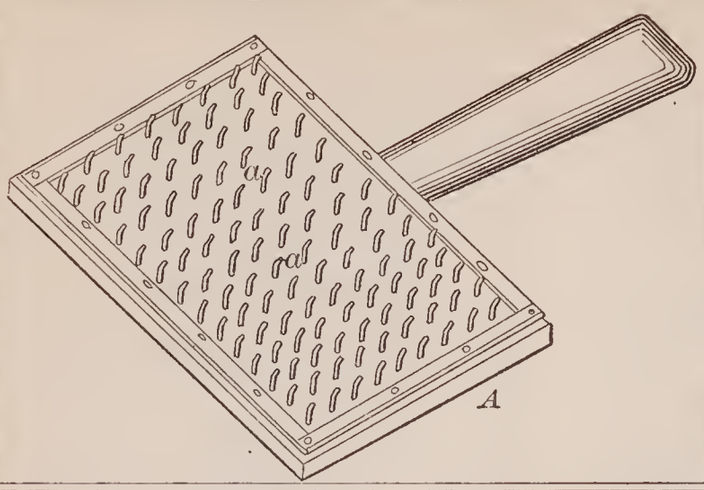
76109—G. Singleton—*Silk Cleaning Knife.*



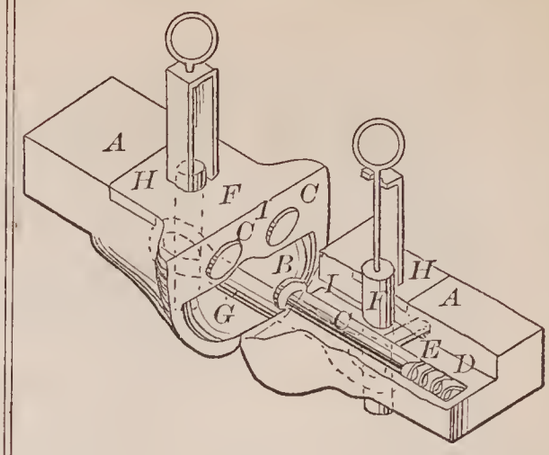
76110—J. D. Smedley—*For Packing Butter, &c.*



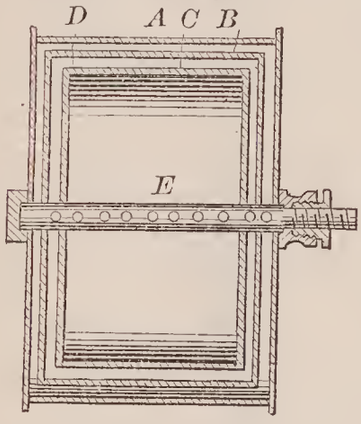
76111—E. L. Sprague—*Making Cards.*



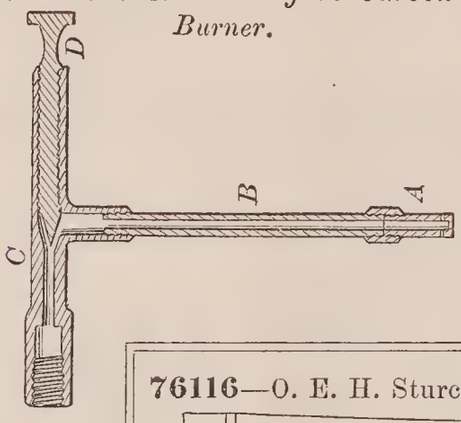
76112—T. Steinhauer—*Car Coupling.*



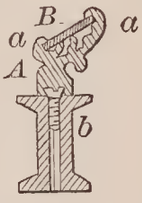
76114—J. Stratton—*For Carburetting Air.*



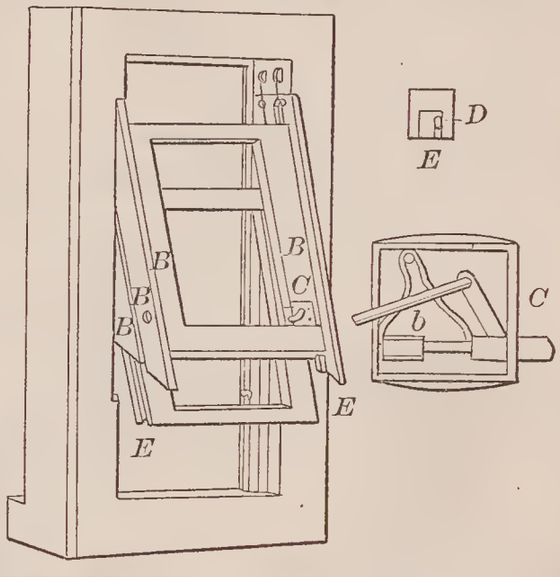
76115—J. Stratton—*Hydro-Carbon Burner.*



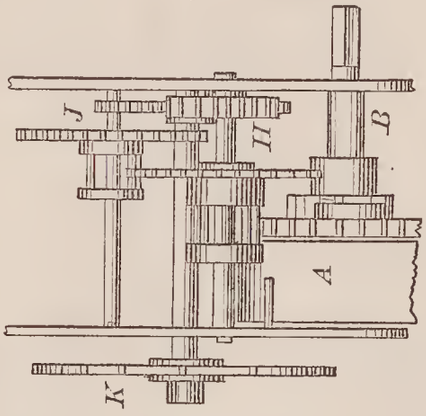
76113—J. W. Strange—*Twine Cutter.*



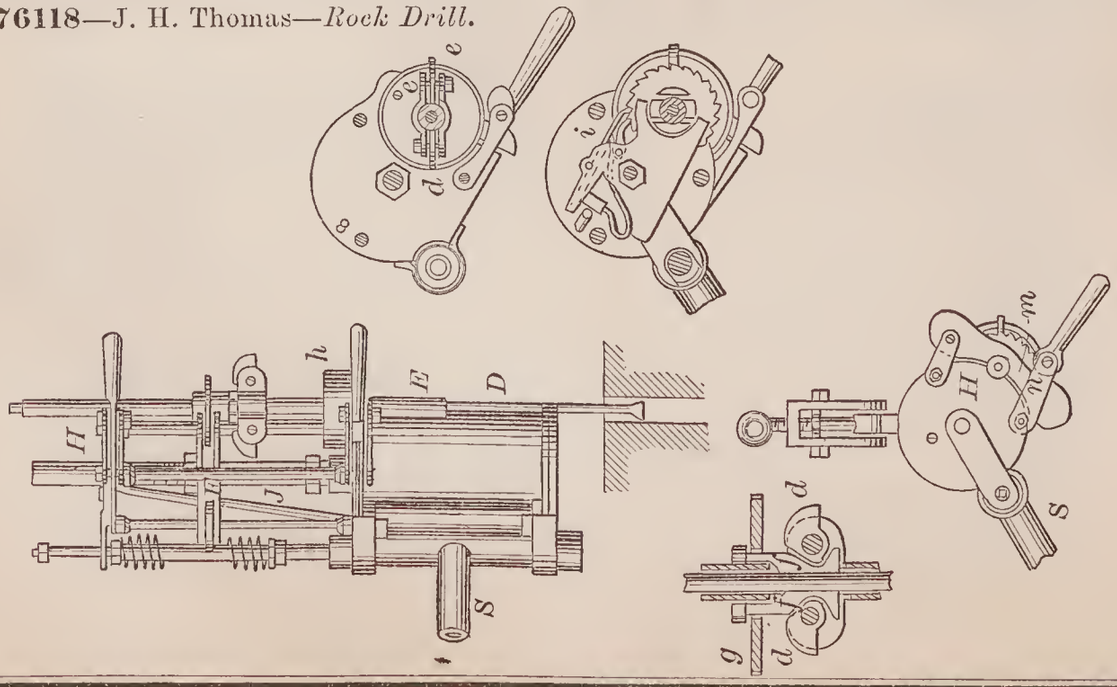
76116—O. E. H. Sturcken—*Window Frame.*



76117—S. B. Terry—*Clock.*

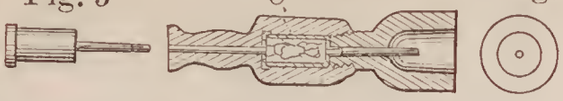


76118—J. H. Thomas—*Rock Drill.*

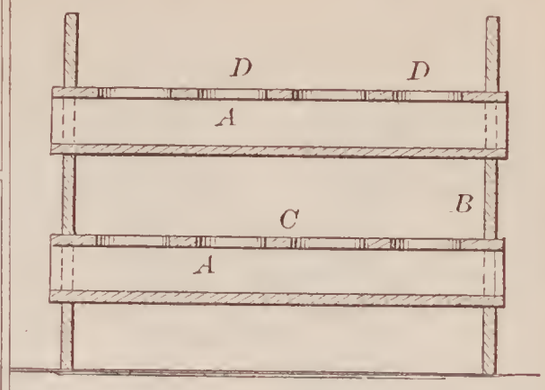


76119—W. Thompson—*Cigar Mouthpiece.*

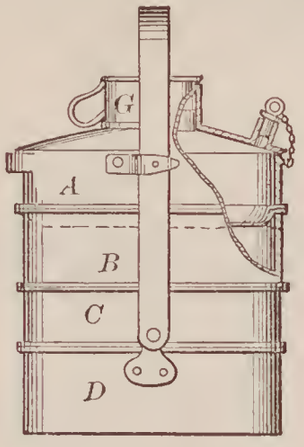
Fig. 5 Fig. 3 Fig. 4



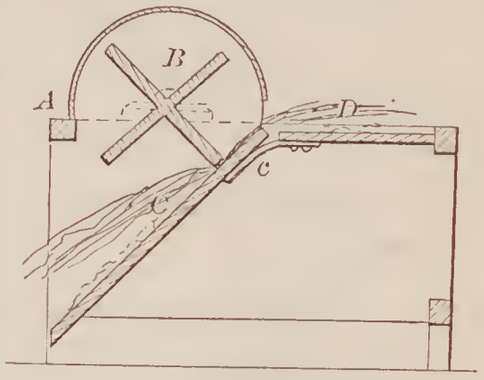
76120—W. Veber, Jr.—*Milk Shelf.*



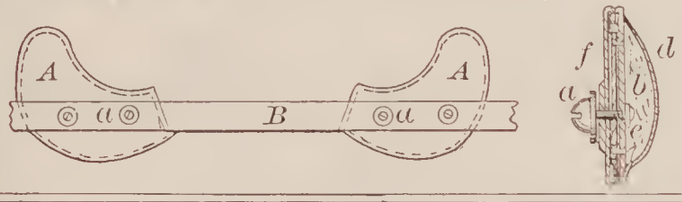
76121—J. Wagner—*Dinner Kettle.*



76122—F. Walpert—*For Removing Burrs from Hair.*

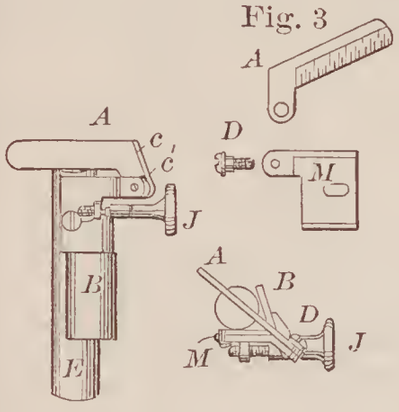


76124—D. K. Wertman—*Breast Pad.*

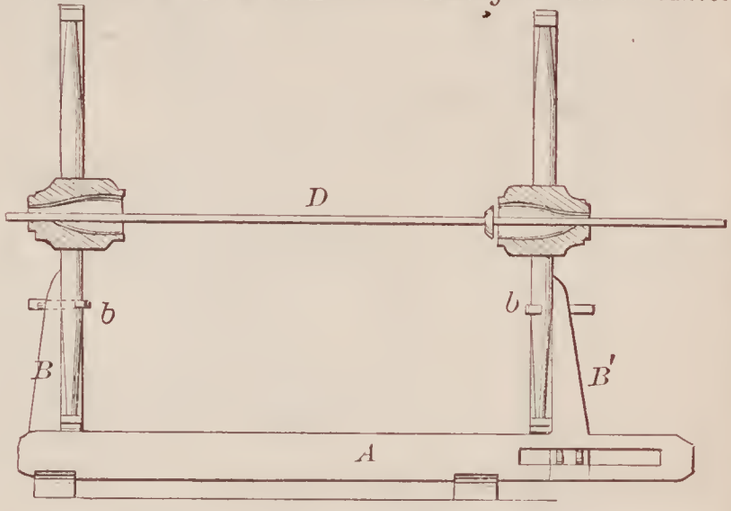


76123—W. C. Wells—*Drill Gauge.*

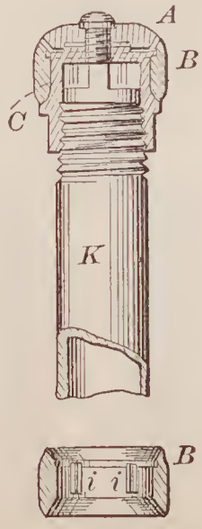
Fig. 3



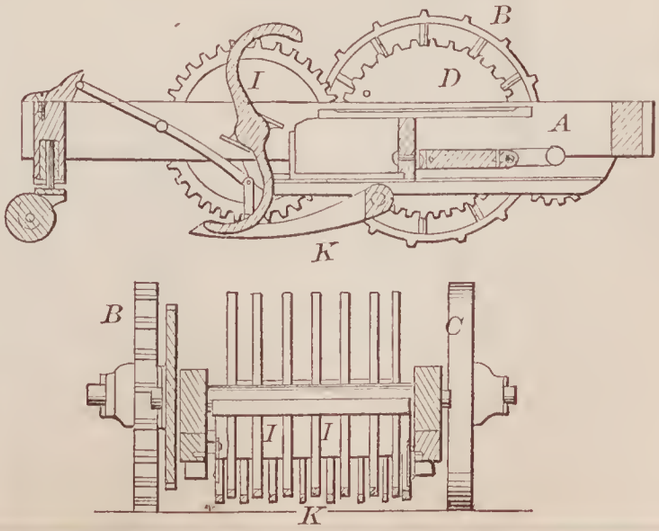
76126—M. S. Wilcox—*For Setting Wheels on Axles.*



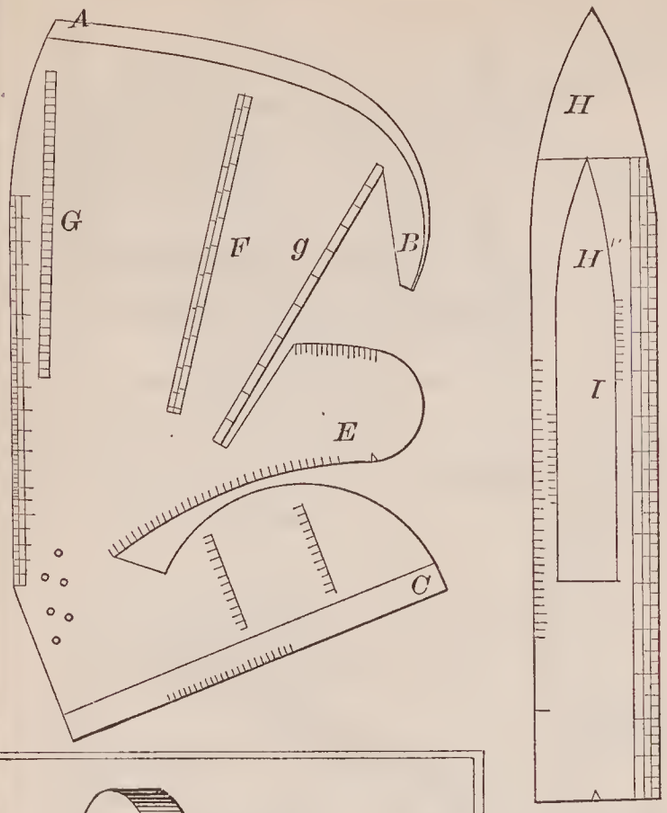
76125—J. M. Wheeler—*For Cleaning Boiler Flues.*



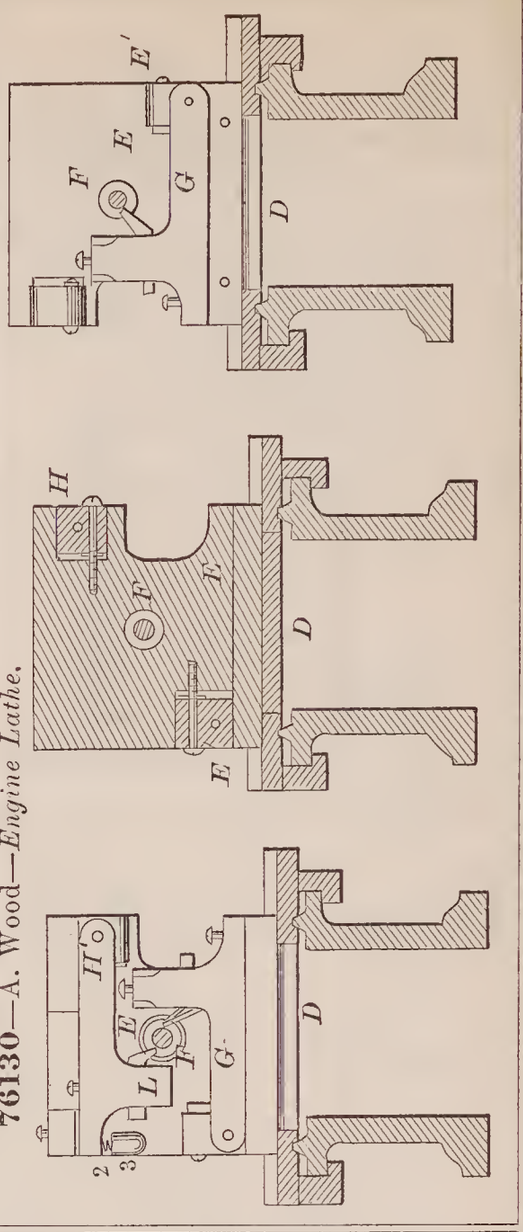
76127—M. H. Wiley—*Potato Digger.*



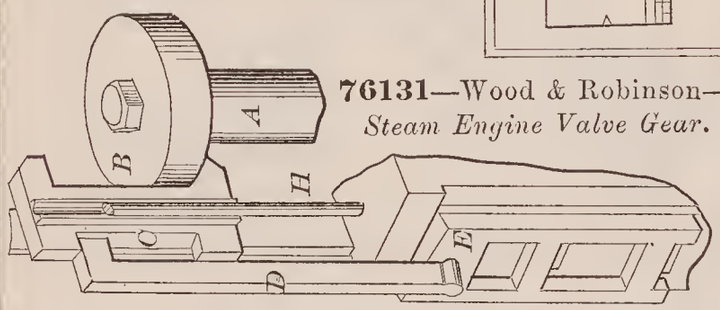
76128—S. R. Windle—*Dress Cutting Measure.*



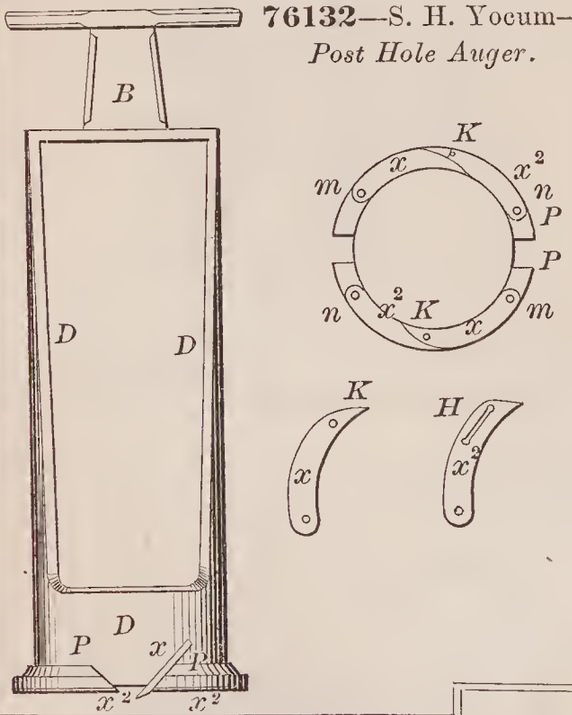
76130—A. Wood—*Engine Lathe.*



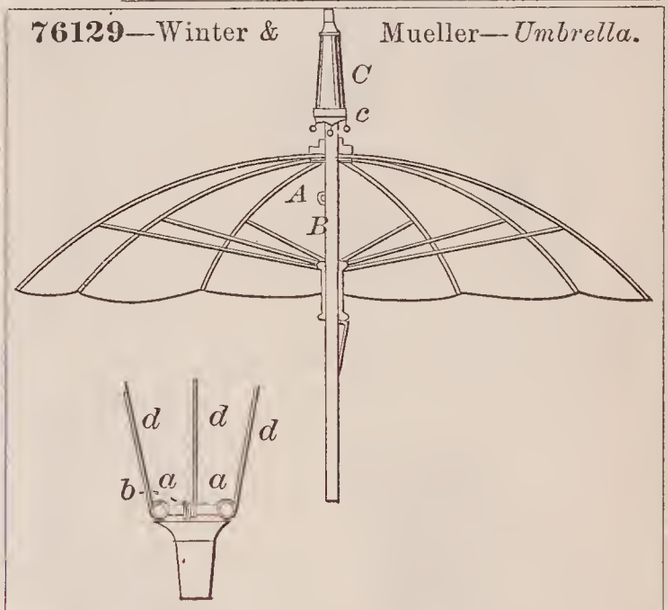
76131—Wood & Robinson—*Steam Engine Valve Gear.*



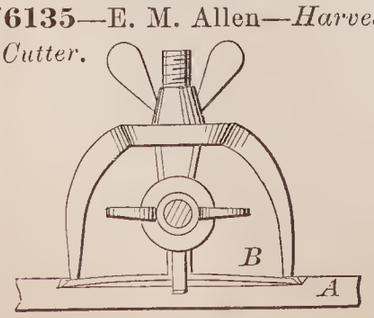
76132—S. H. Yocum—*Post Hole Auger.*



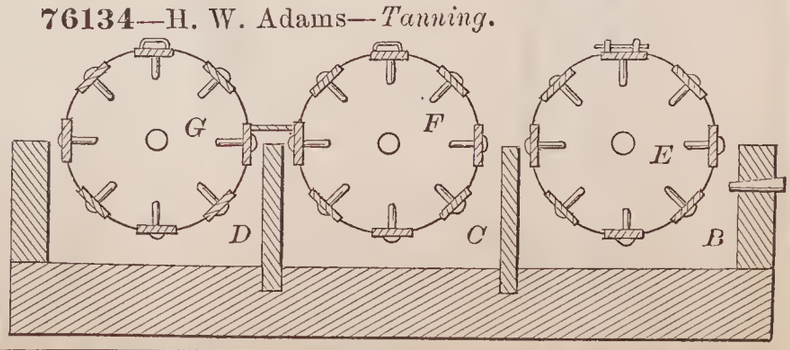
76129—Winter & Mueller—*Umbrella.*



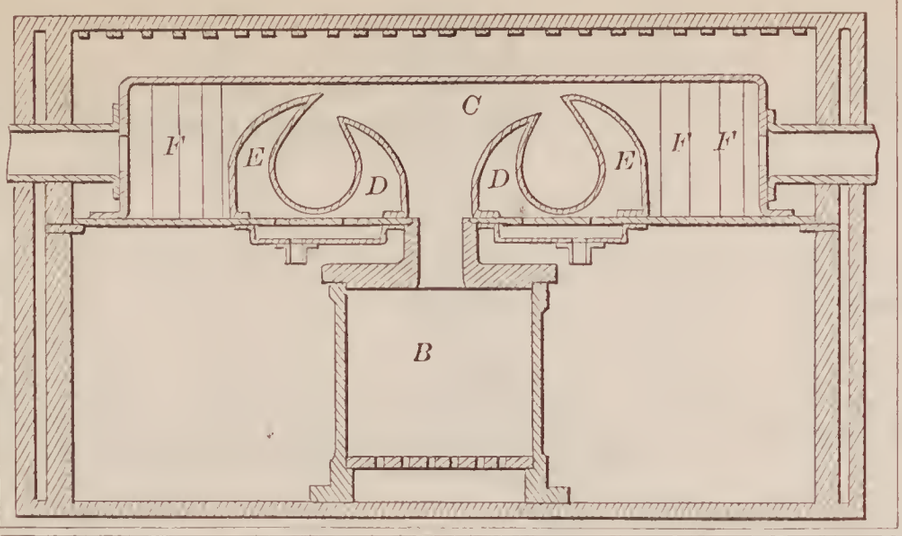
76135—E. M. Allen—*Harvester Cutter.*



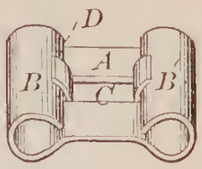
76134—H. W. Adams—*Tanning.*



76136—J. Amory—*Hot Air Furnace.*

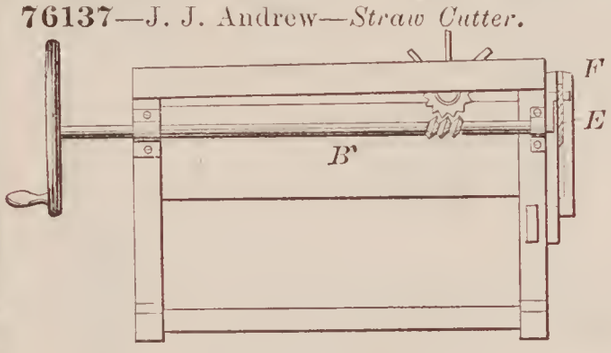


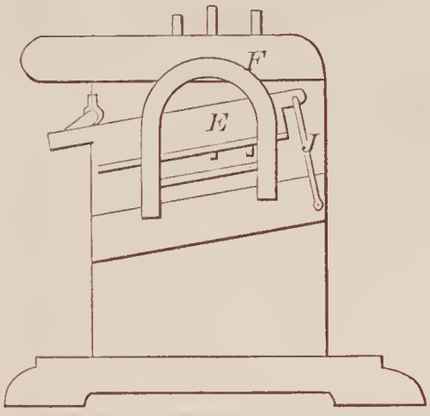
776141—J. W. Barnum—*Cotton Bale Tie.*



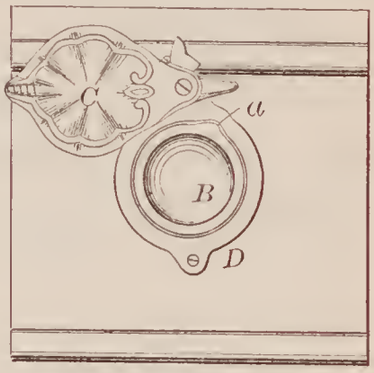
76144—J. W. Barnum—*Cotton Bale Tie.*

76137—J. J. Andrew—*Straw Cutter.*

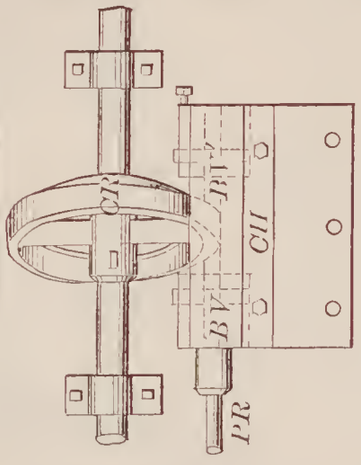


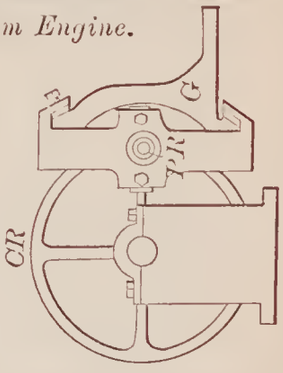


76138—H. L. Andrews—*Inkstand.*



76139—N. Atherton—*Steam Engine.*





76143—J. W. Barnum—*Cotton Bale Tie.*

Fig. 3

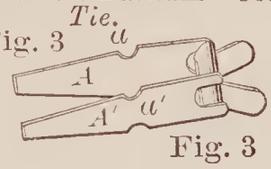
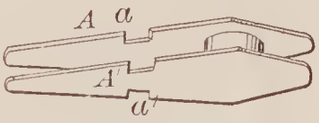
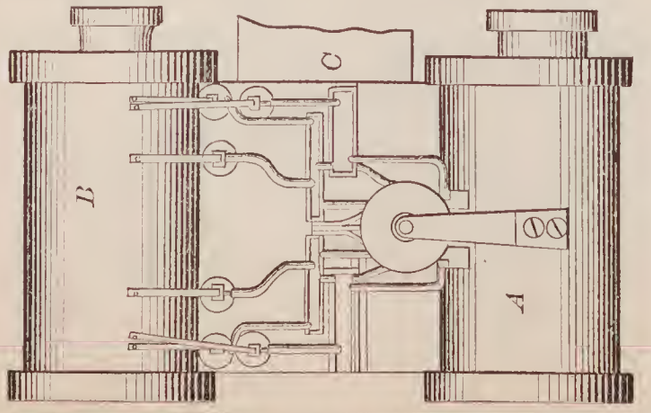
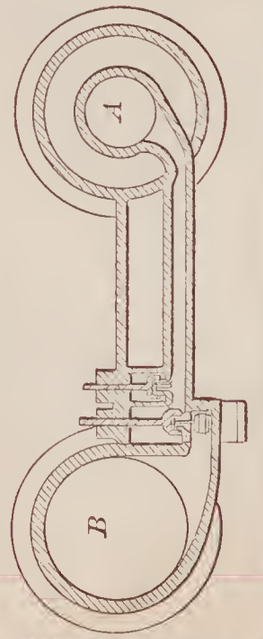


Fig. 3

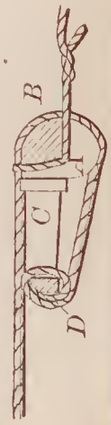


76140—C. W. Baldwin—*Steam Engine.*

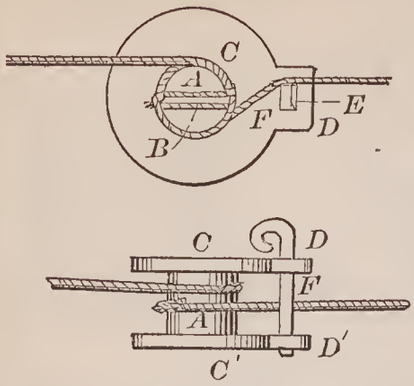




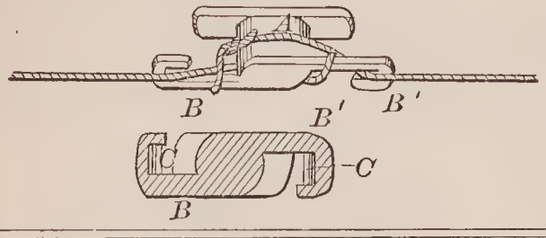
76142—J. W. Barnum—*Cotton Bale Tie.*



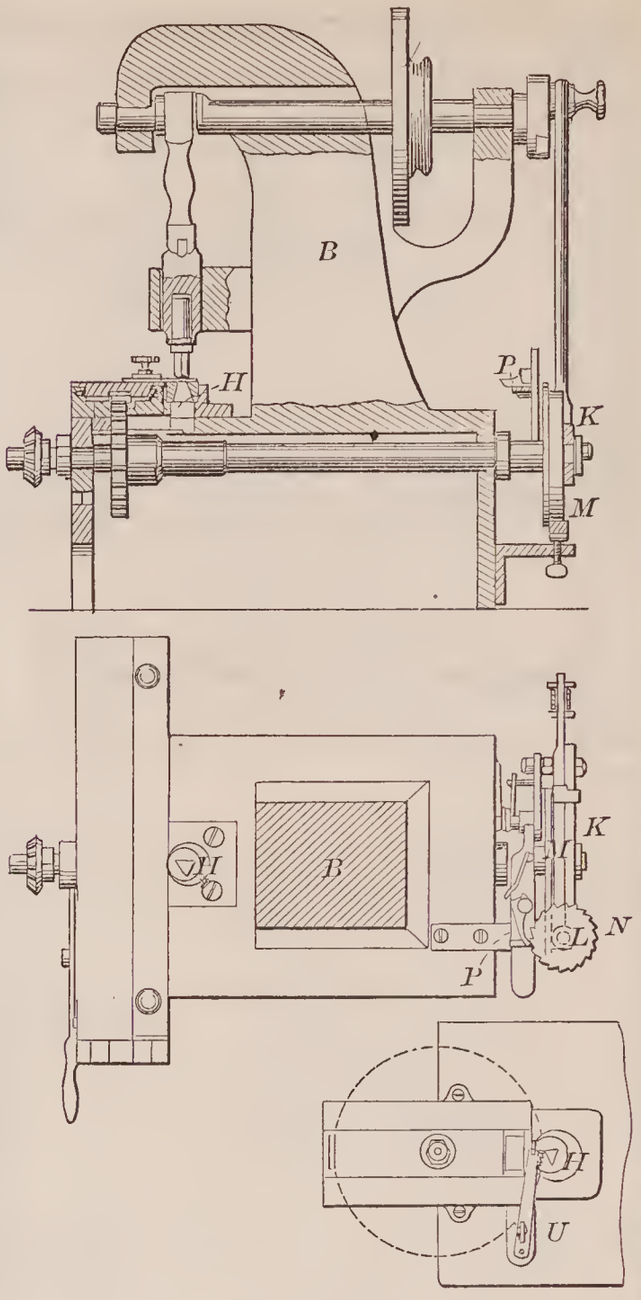
76145—J. W. Barnum—*Cotton Bale Tie.*



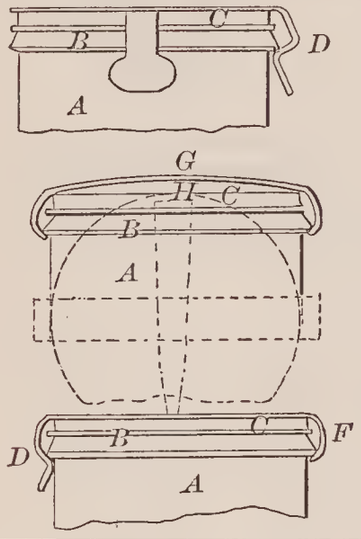
76146—J. W. Barnum—*Cotton Bale Tie.*



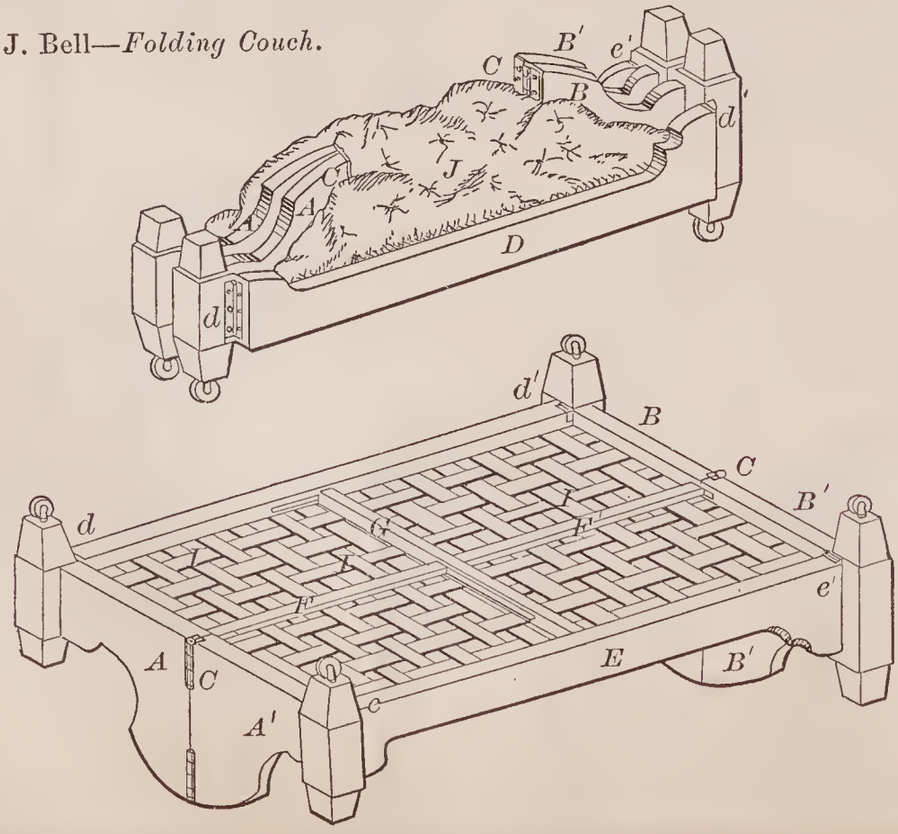
76147—A. Bartholf—*Saw Gumming Machine.*



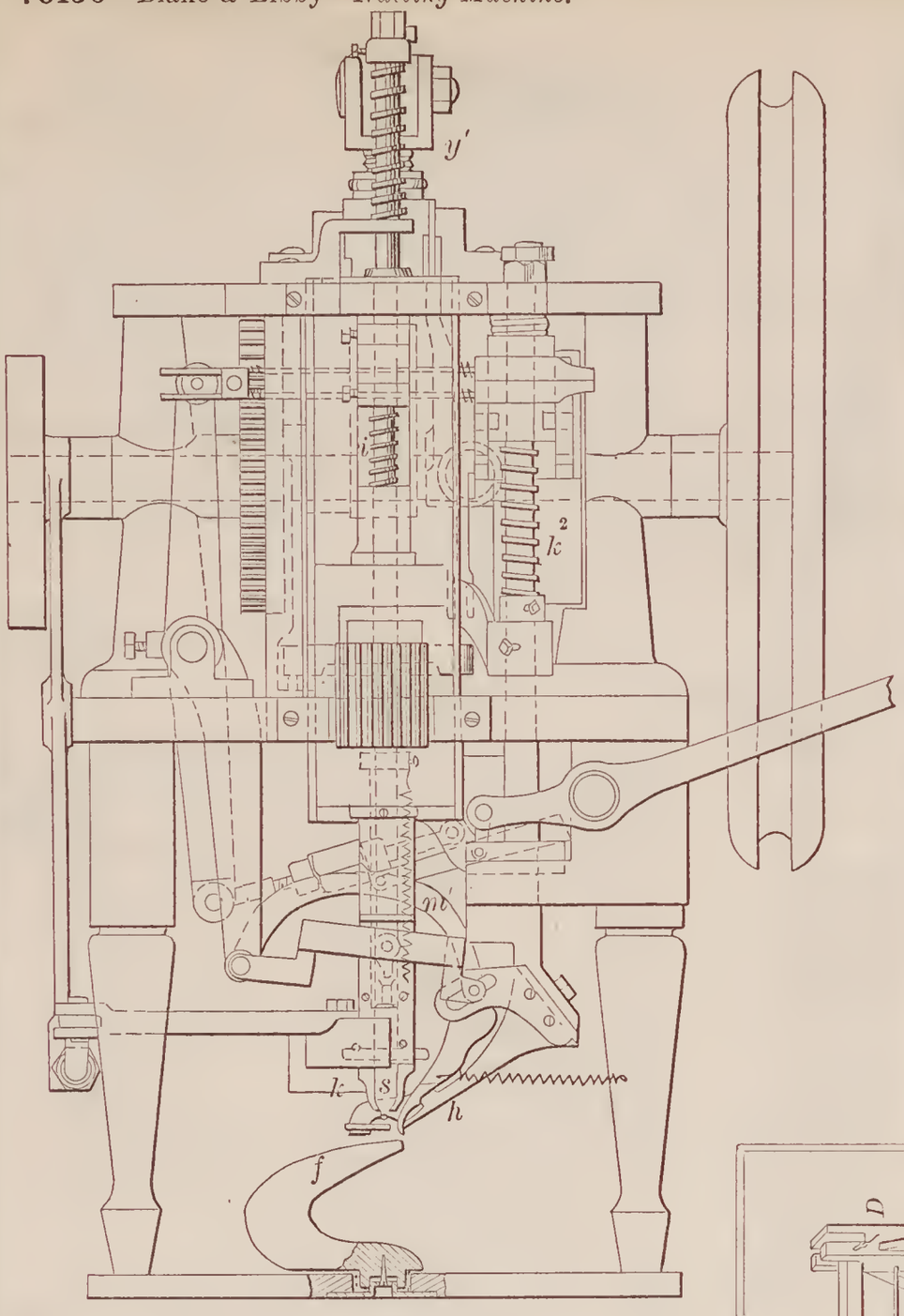
76149—J. Bellerjean—*Sealing Cans.*



76148—A. J. Bell—*Folding Couch.*

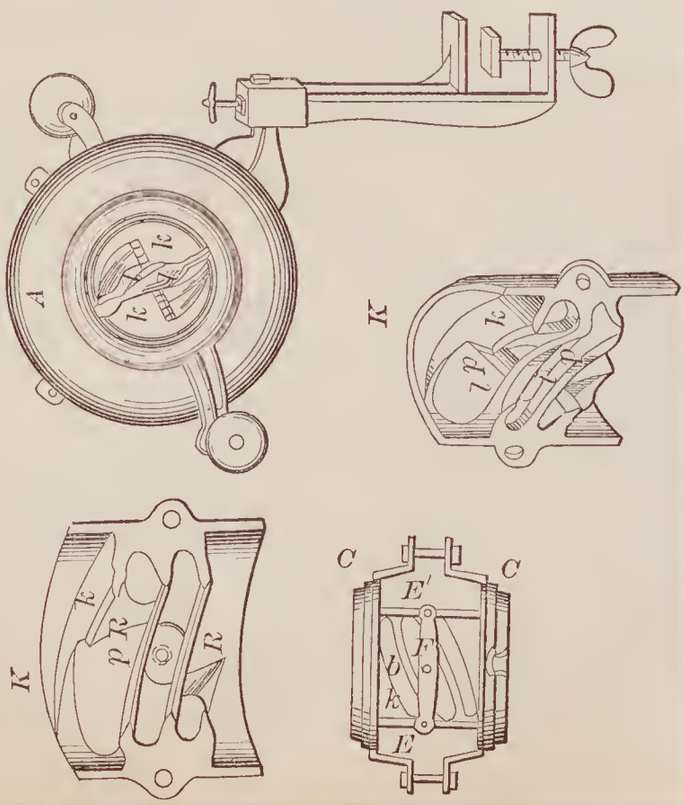


76150—Blake & Libby—*Nailing Machine.*

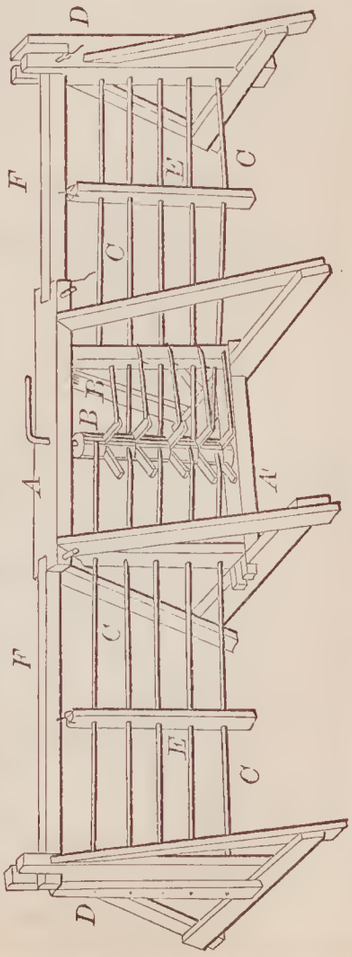


76153—C. W. Bowlshy—*Government Revenue Stamp.*

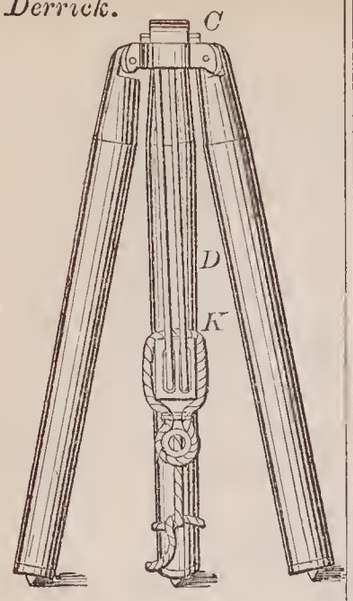
76154—C. H. Brady—*Corn Sheller.*



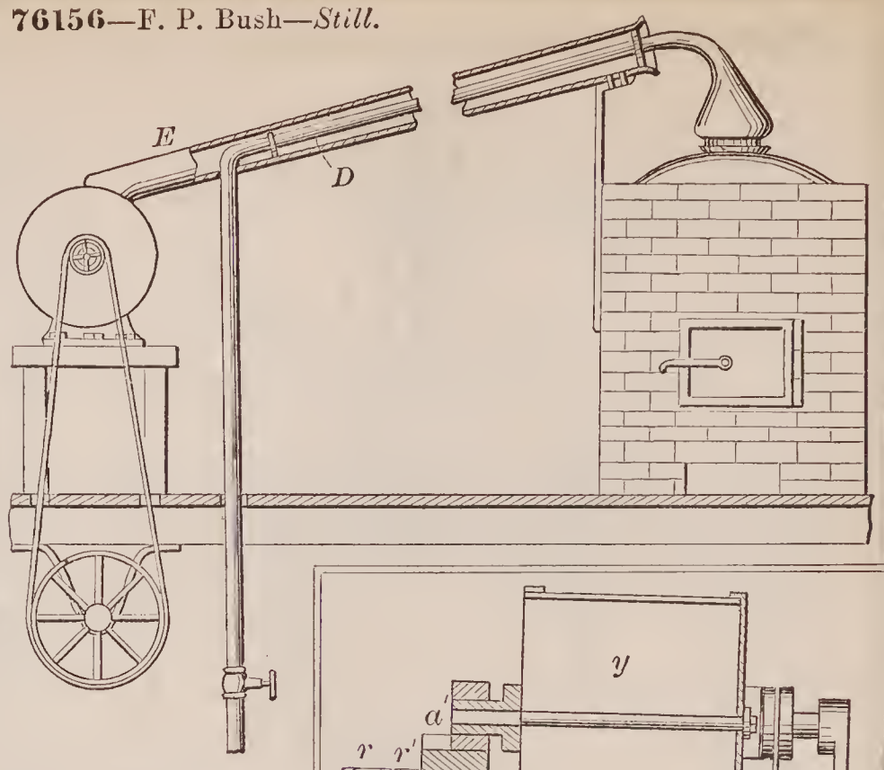
76151—L. W. Bosart—*Portable Wire Fence.*



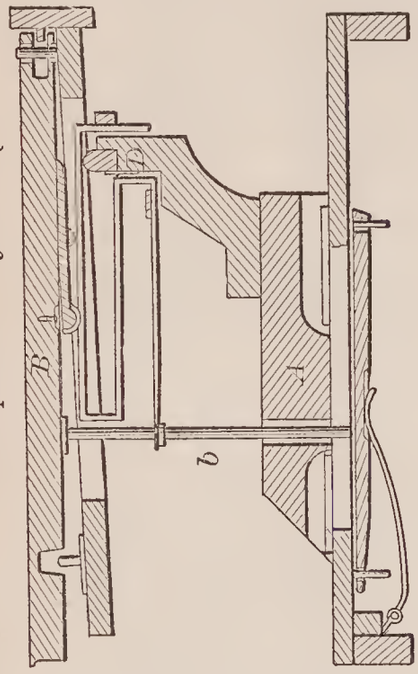
76155—G. C. Brown—*Derrick.*



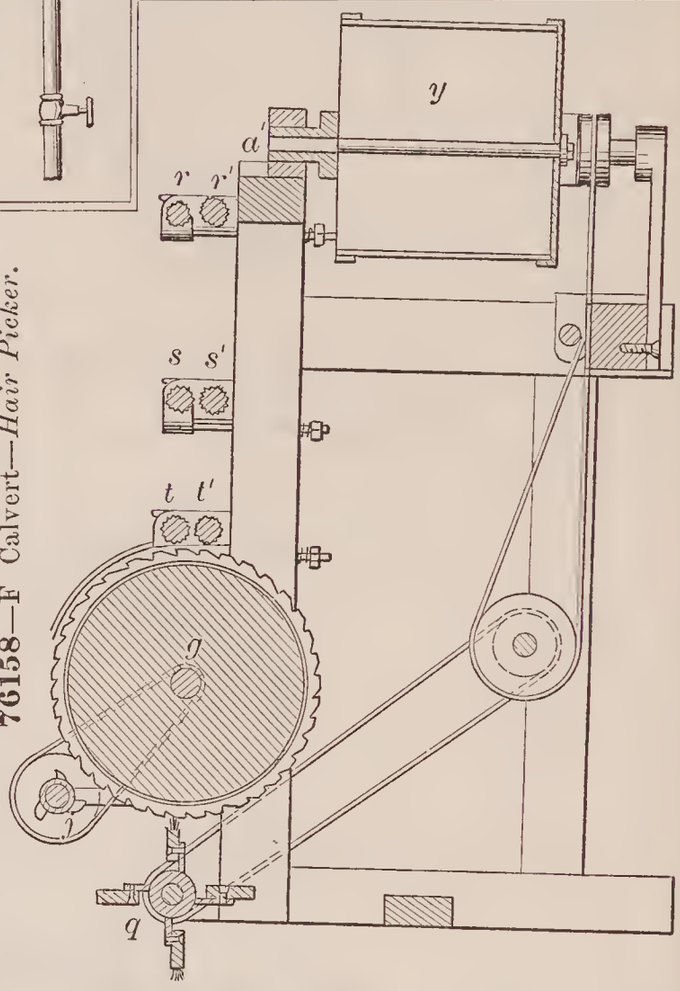
76156—F. P. Bush—*Still.*



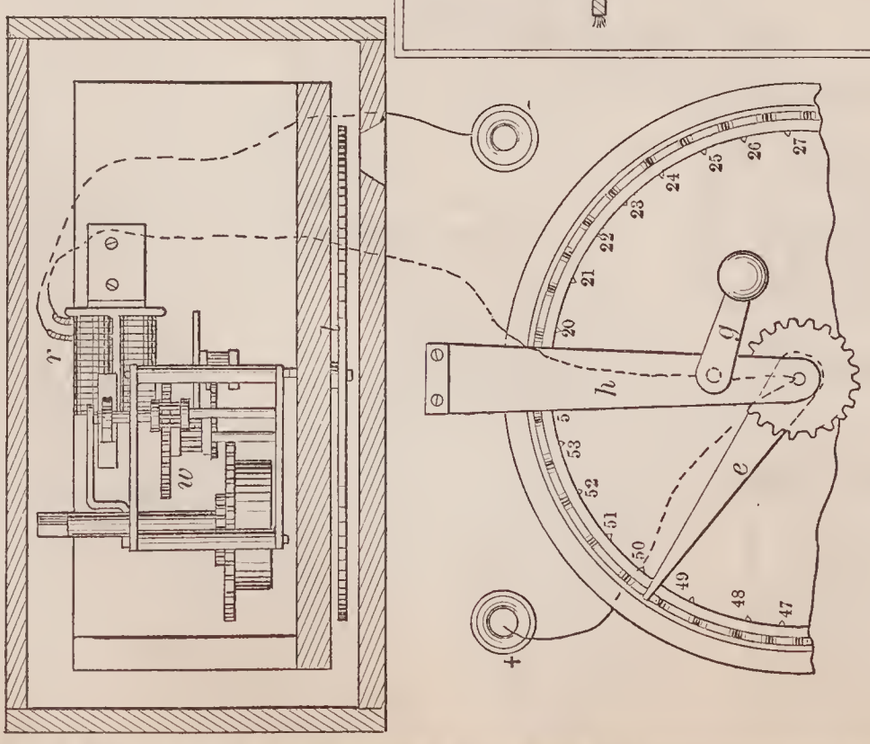
76159—R. W. Carpenter—*Organ Coupler.*



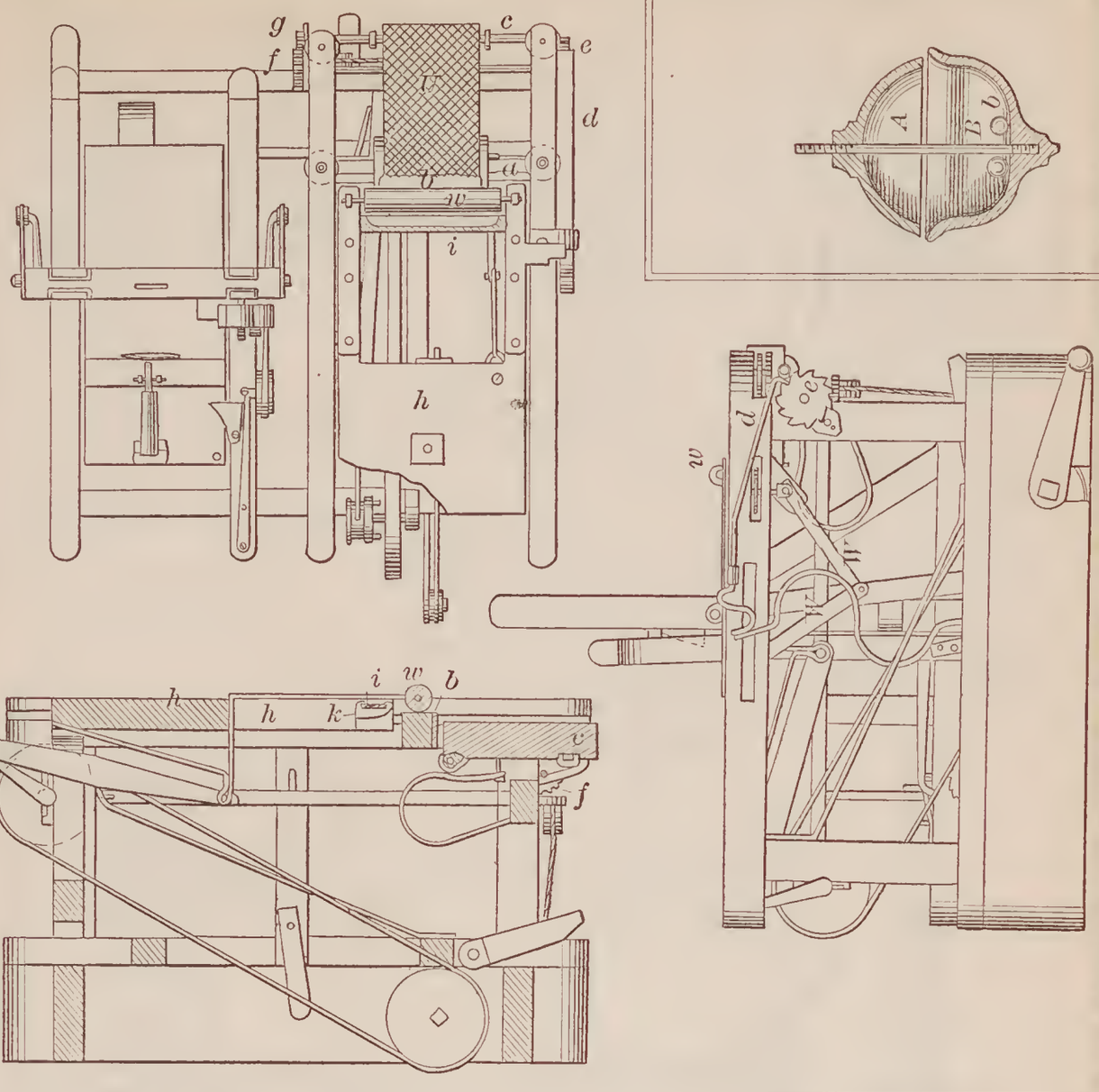
76158—F Calvert—*Hair Picker.*



76157—E. A. Calahan—*Telegraphic Indicator.*

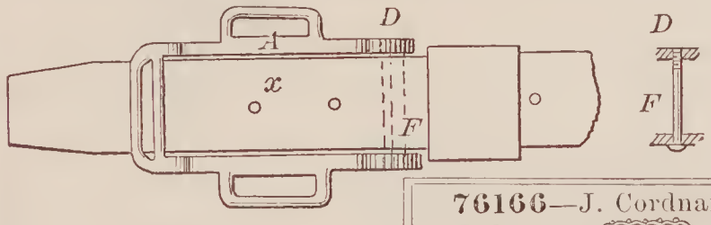


76160—J. F. Chambers—*Shingle Machine.*

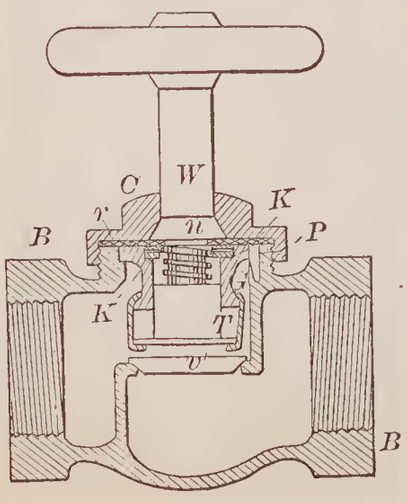


76163—E. G. Cone—*Sleigh Bell.*

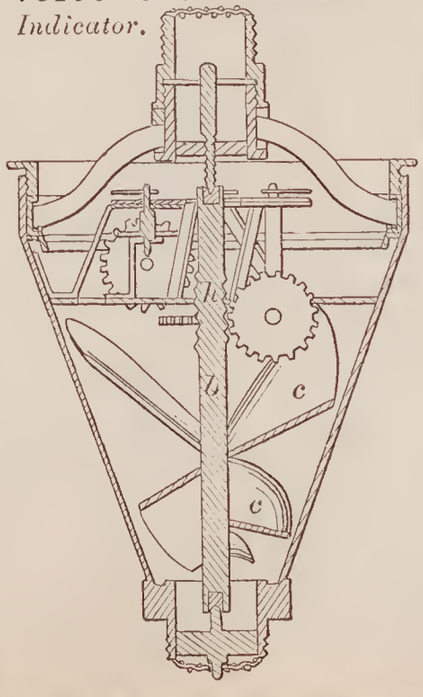
76162—G. P. Cole—*Tug Buckle.*



76164—W. S. Cooper—*Globe Valve.*



76166—J. Cordnan—*Fluid Indicator.*



76161—E. Coburn, Jr.—*Tooth Plugger.*

Fig. 1

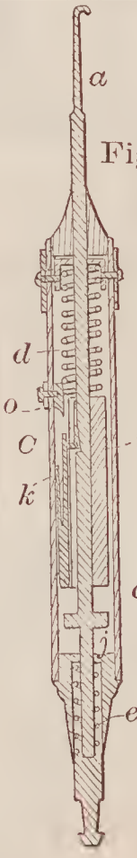
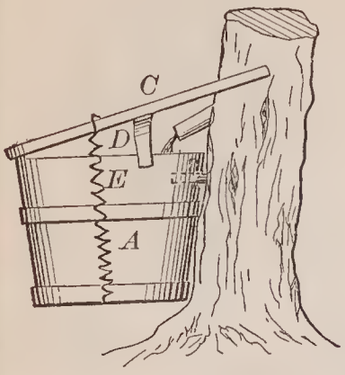


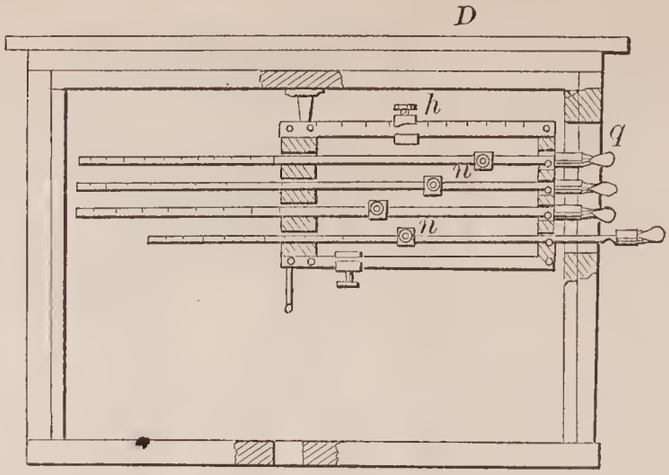
Fig. 3

Fig. 4

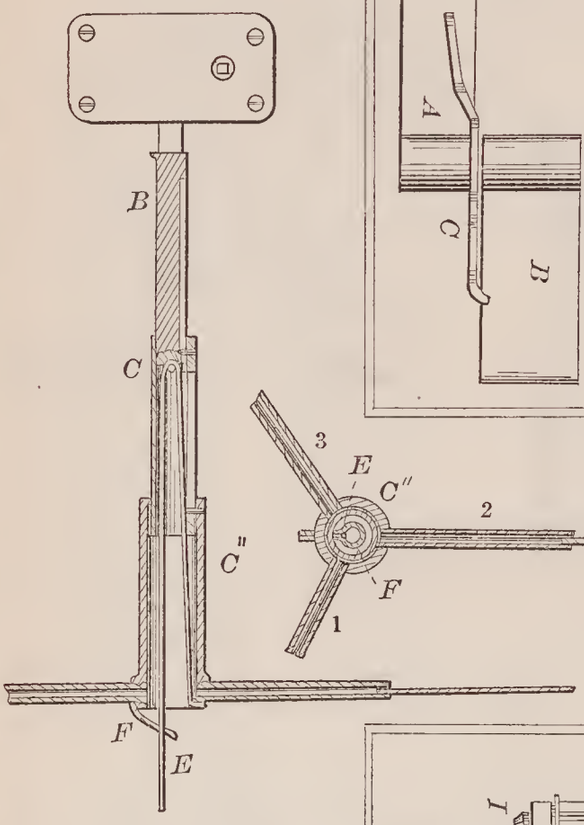
76168—J. W. Currier—*Sap Bucket.*



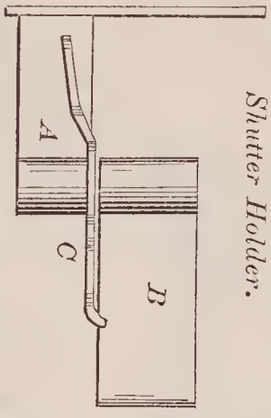
76169—A. B. Davis—*Box for Scale Beams.*



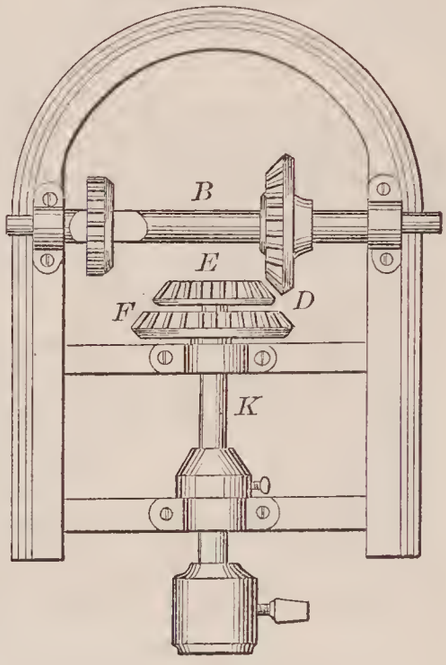
76174—I. S. Eastman—*Rotary Fan.*

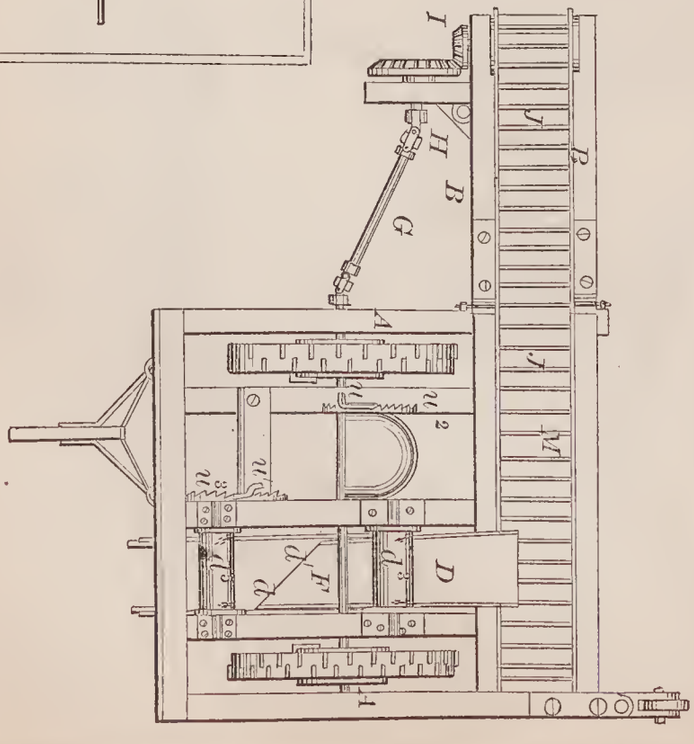


76170—C. R. Doane—*Window Shutter Holder.*

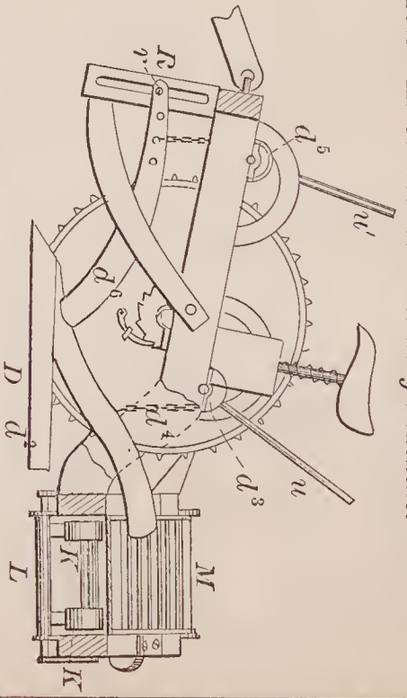


76171—Dool & White—*Boring Machine.*

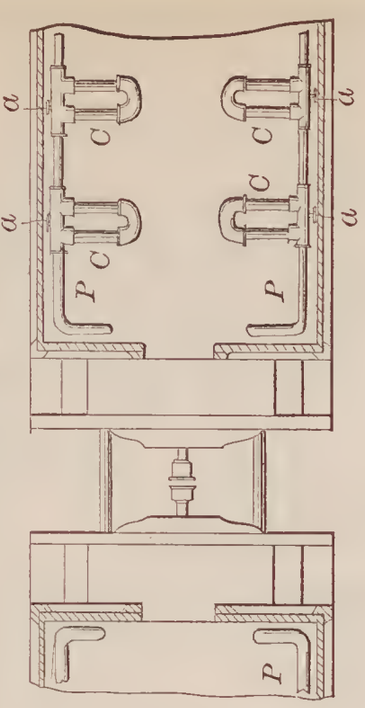




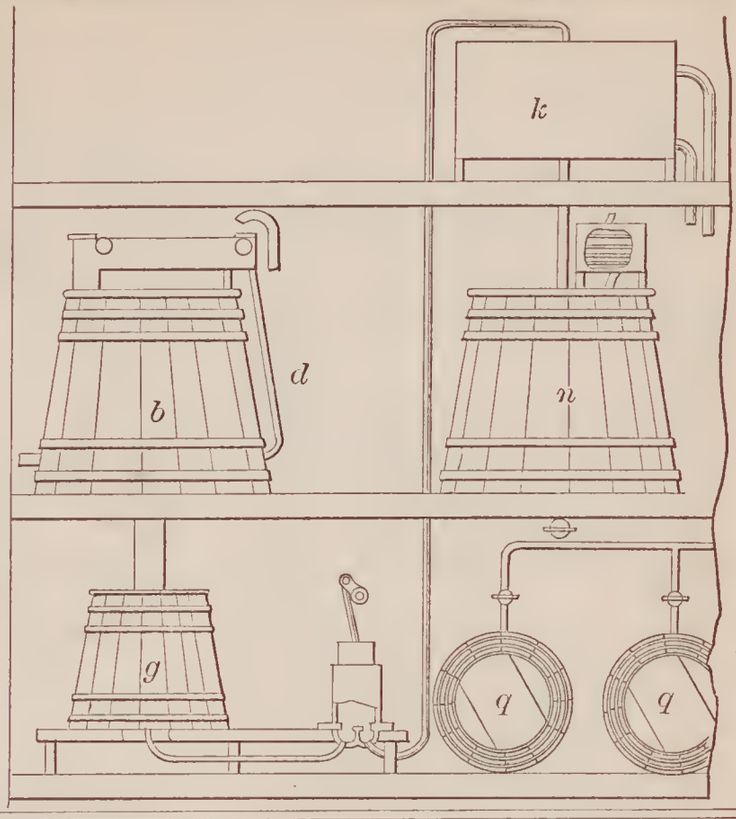
76172—A. C. Decker—*Ditching Machine.*



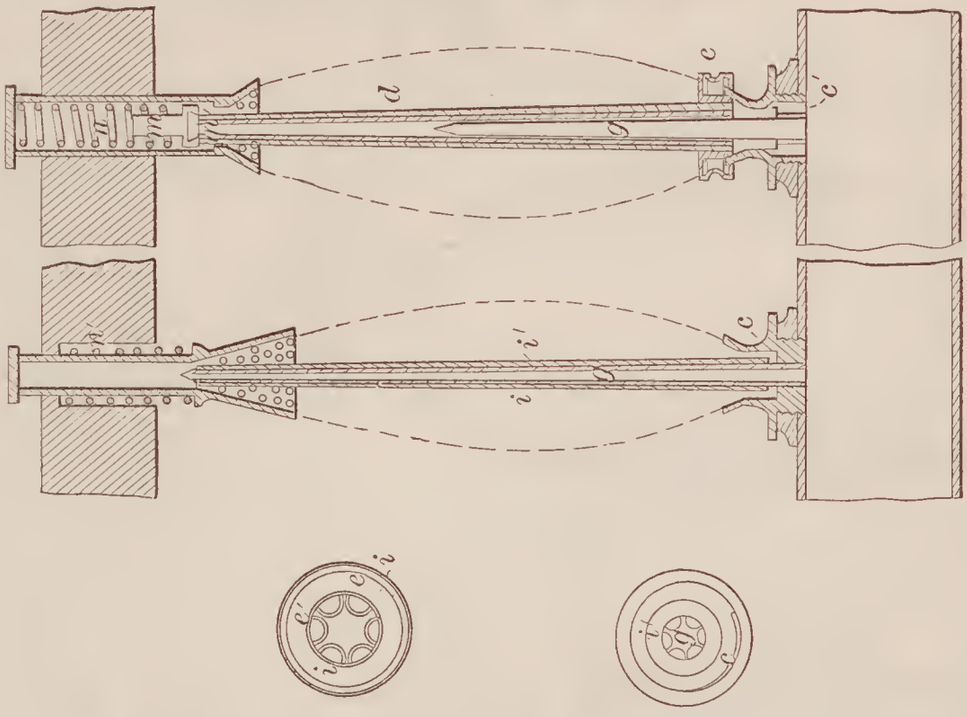
76175—G. W. Eddy—*For Warming Cars.*



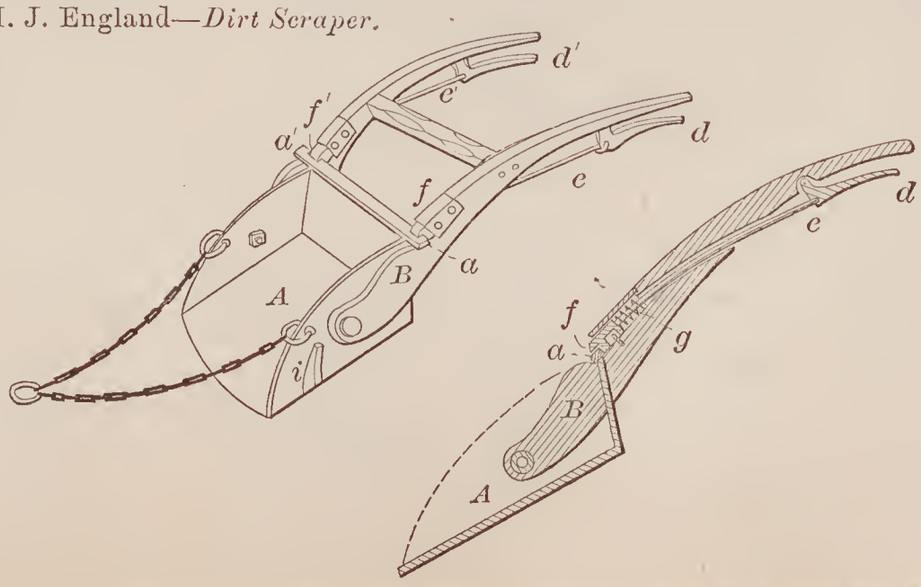
76177—W. H. Elliott—*For Brewing Beer.*



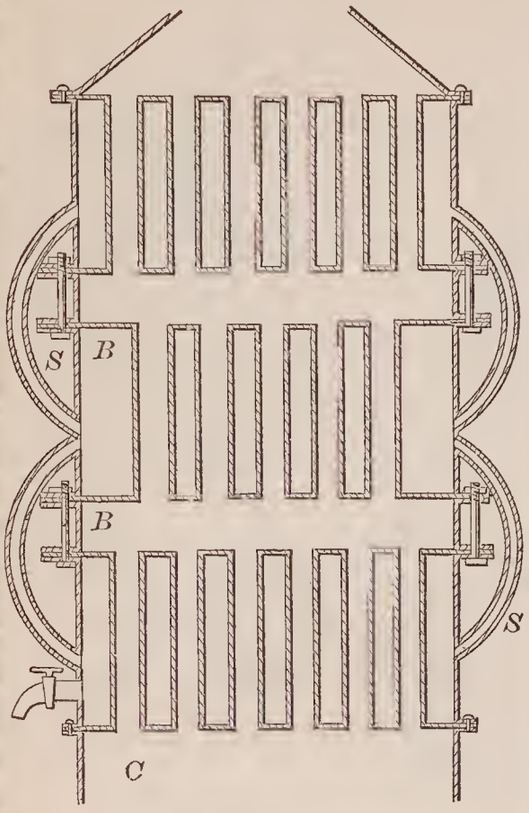
76178—Elliott & Osgood—*For Dyeing and Bleaching Yarn.*



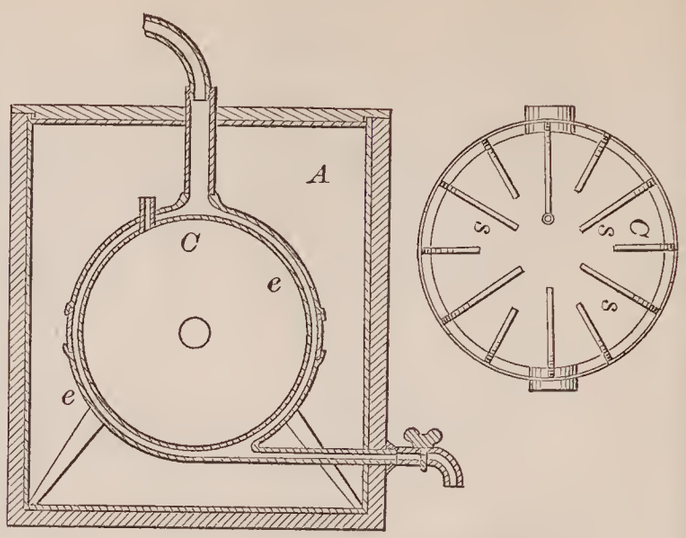
76179—H. J. England—*Dirt Scraper.*



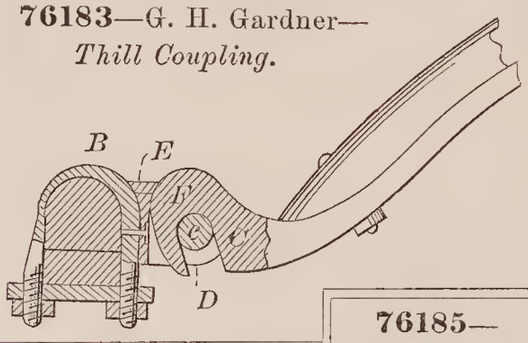
76180—A. S. Foster—*Steam Generator.*



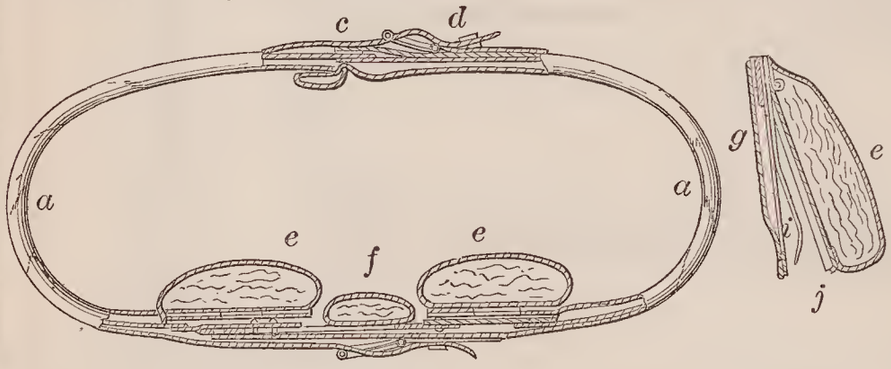
76181—H. C. Fowler—*For Cooling Liquids.*



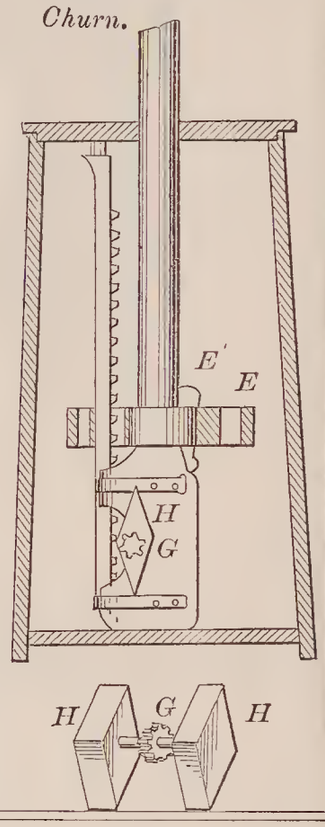
76183—G. H. Gardner—*Thill Coupling.*



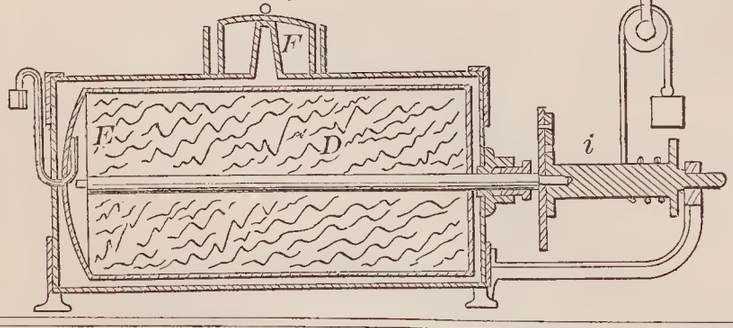
76184—J. Glydon—*Truss.*



76185—E. T. Harlan—*Churn.*

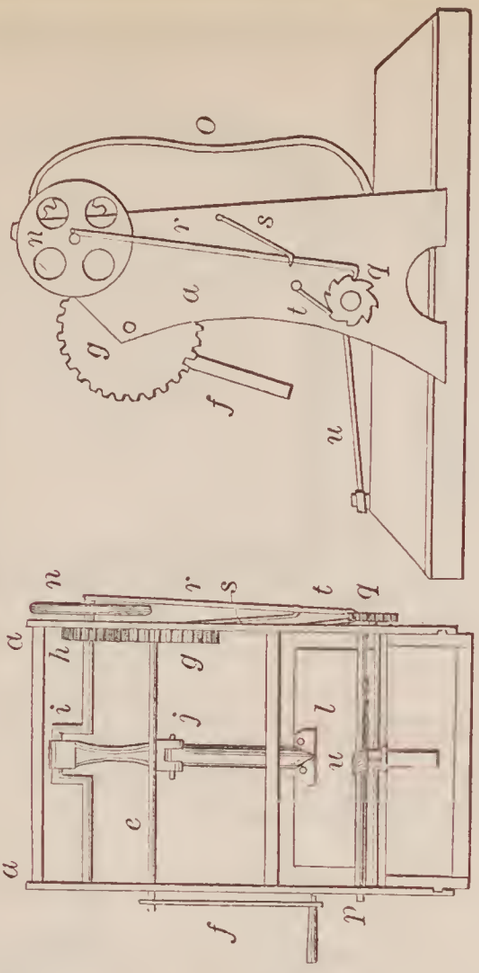


76182—G. P. Ganster—*For Generating Illuminating Gas.*

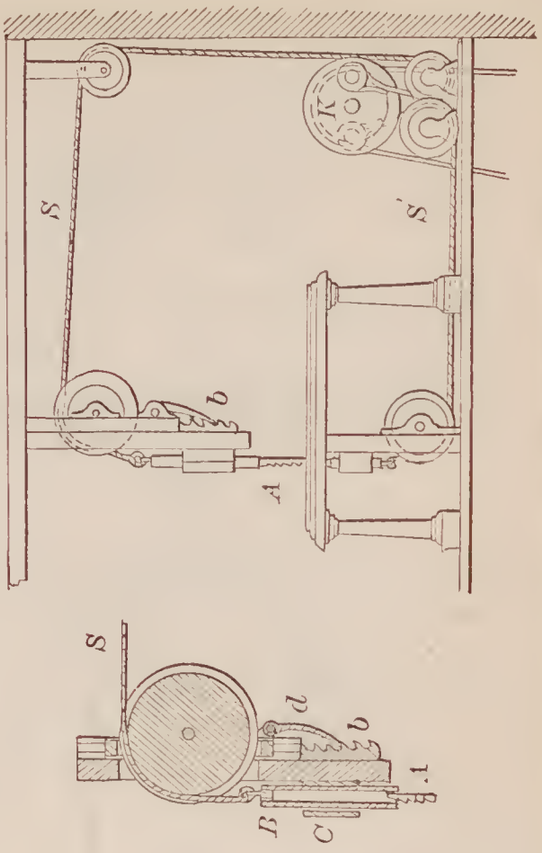


76186—W. H. Hart, Jr.—*Packing Neck Ties.*

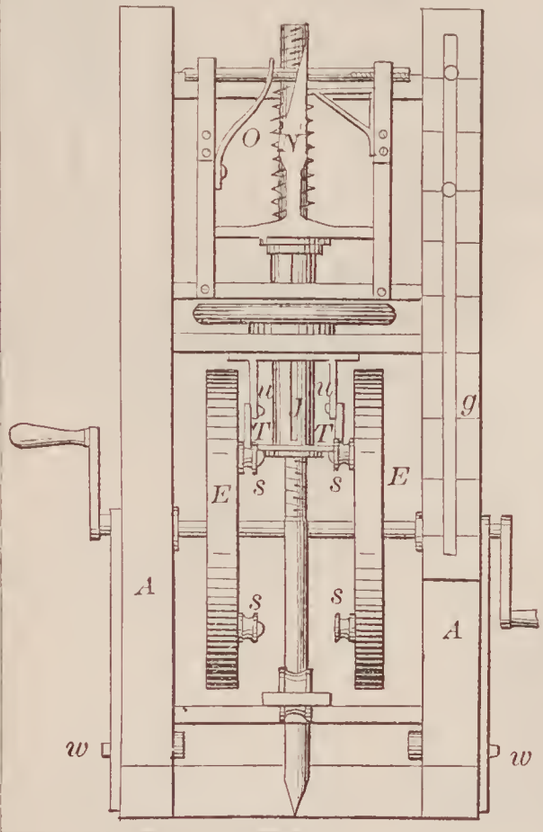
76187—N. L. Hatch—*Meat Chopper.*

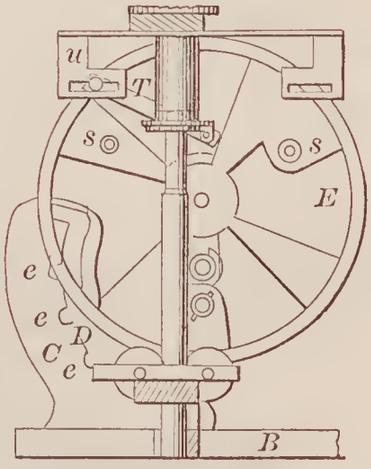


76191—H. D. Hintermesch—*Saw Mill.*

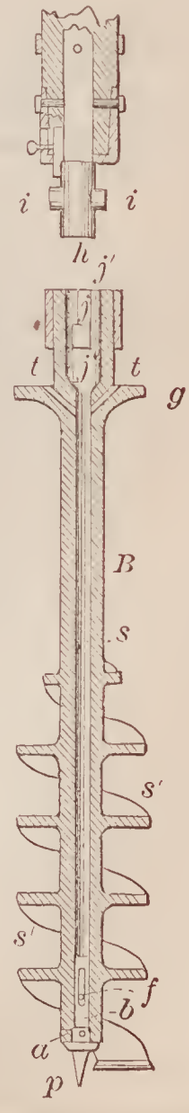


76189—L. Hermance—*Stone Drilling Machine.*

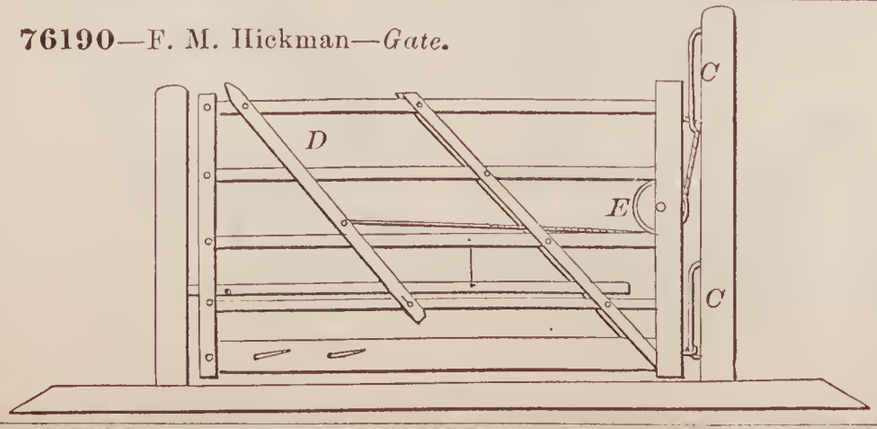




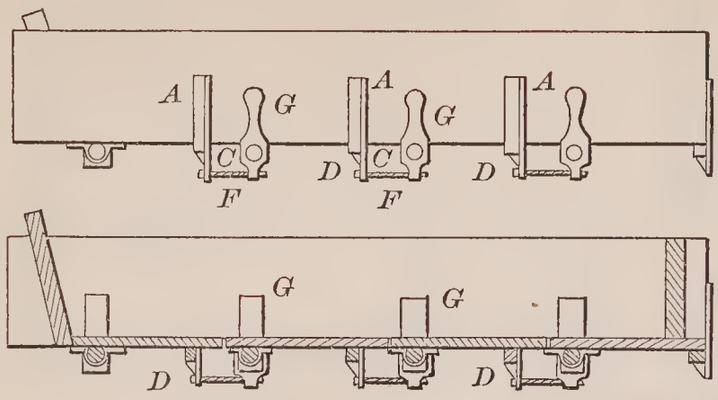
76188—J. W. Heath—*Earth Boring Auger.*



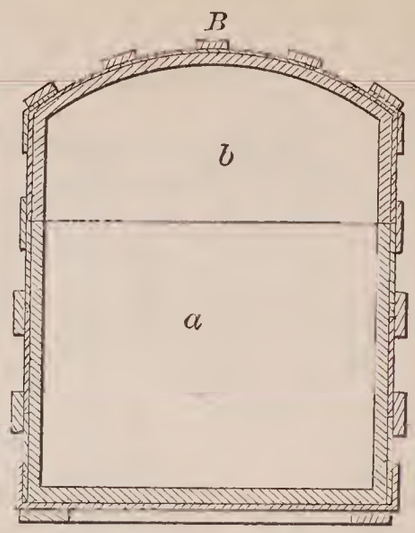
76190—F. M. Hickman—*Gate.*



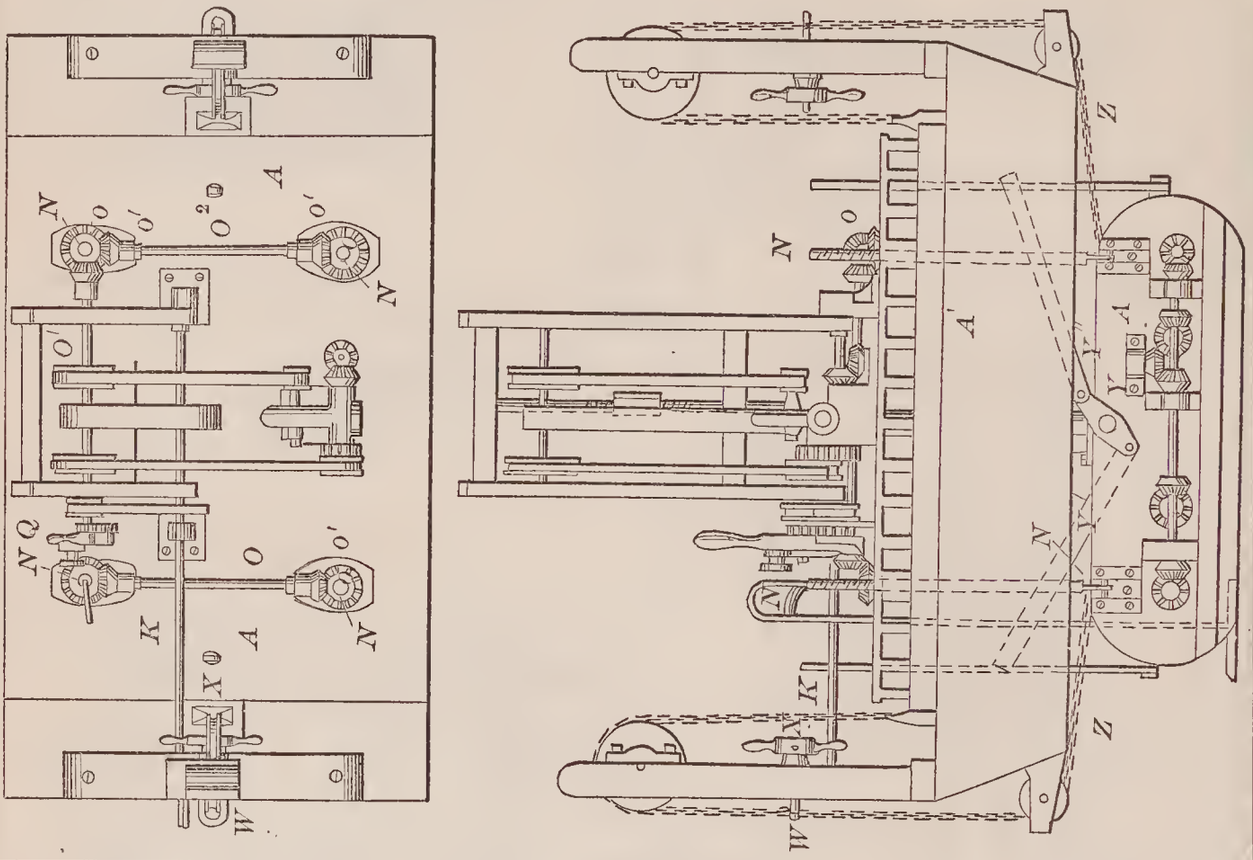
76192—J. Holmes—*Dumping Wagon.*



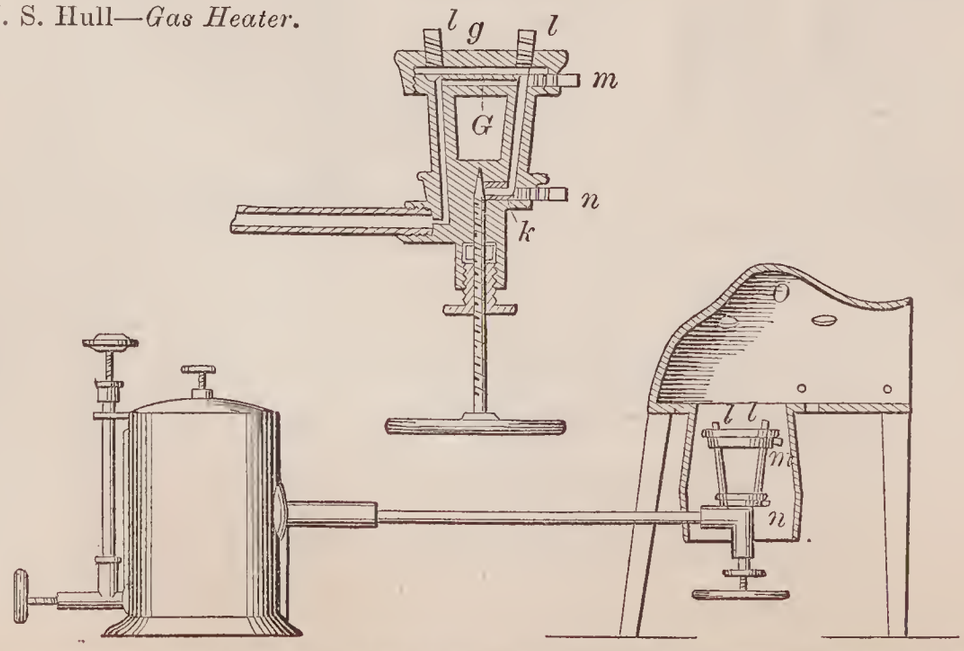
76193—C. Horton—*Trunk.*



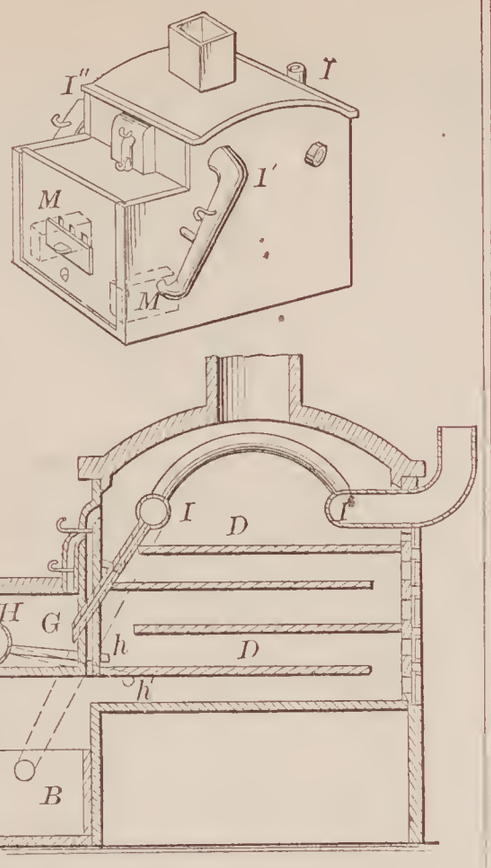
76194—G. Howell—*For Filling Marshes.*



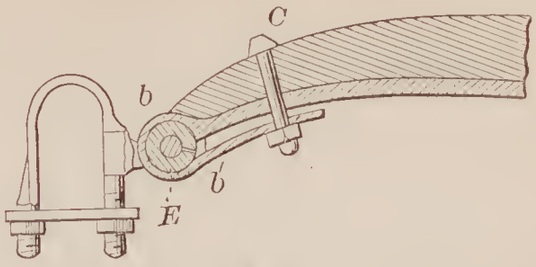
76195—J. S. Hull—*Gas Heater.*



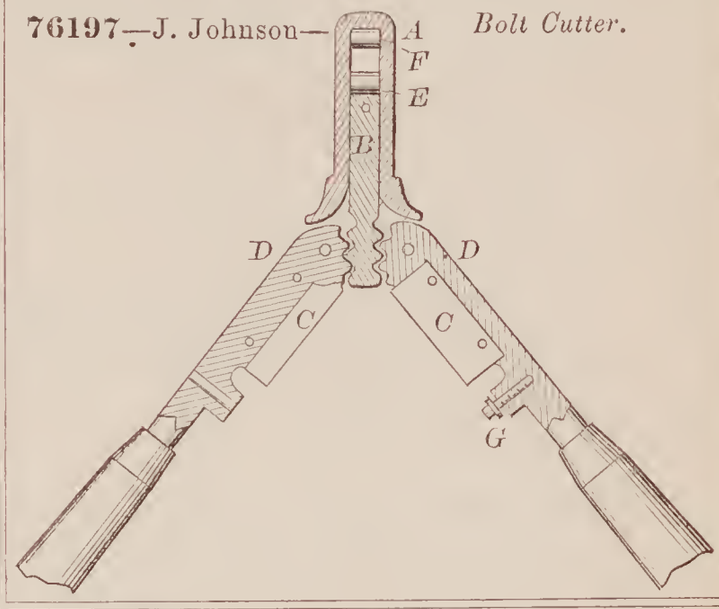
76196—J. Jameson—*For the Manufacture of Iron.*



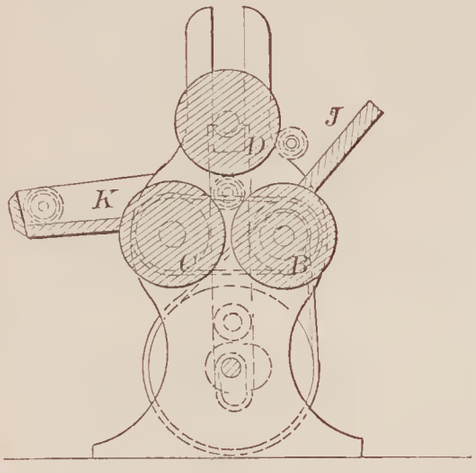
76198—P. Jones—*Thill Coupling.*



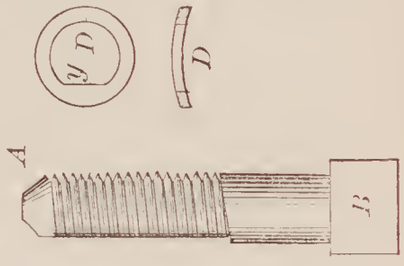
76197—J. Johnson—*Bolt Cutter.*



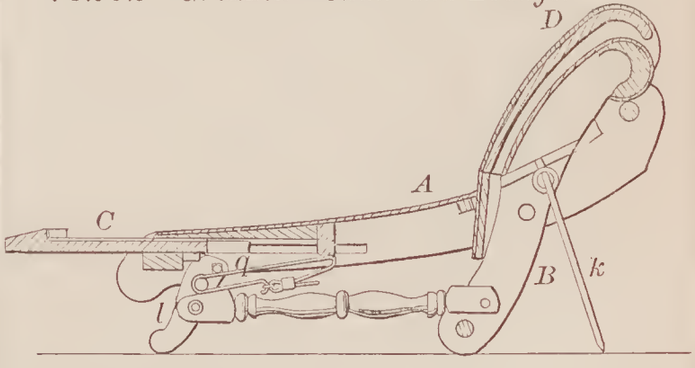
76199—W. C. Joslin—*For Rolling "Cots" on Drawing Rollers.*



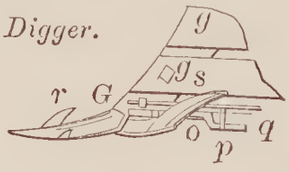
76201—S. W. Kirk—*Lock Nut.*

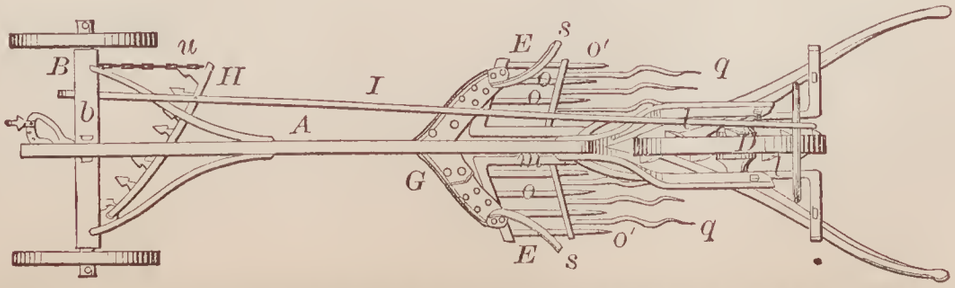


76202—G. Knell—*Chair and Lounge.*

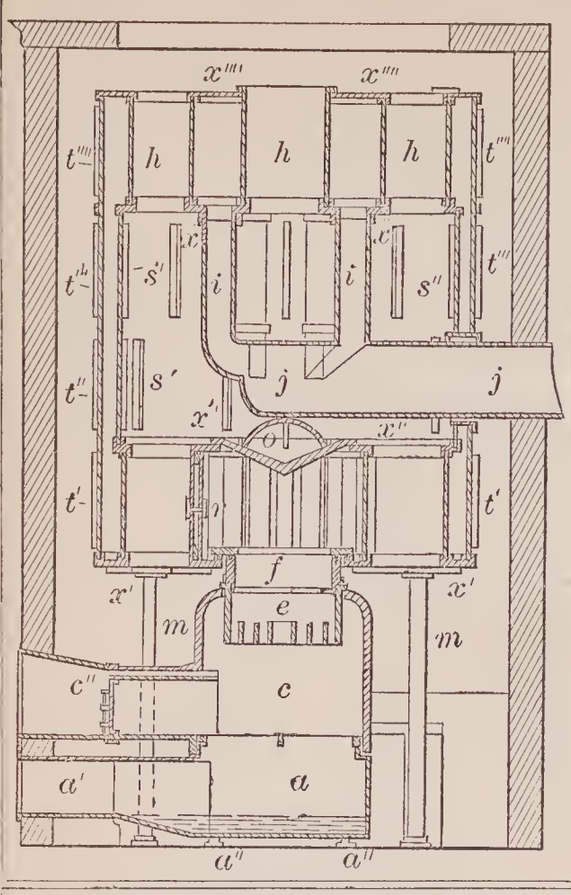


76200—G. W. Kintz—*Potato Digger.*

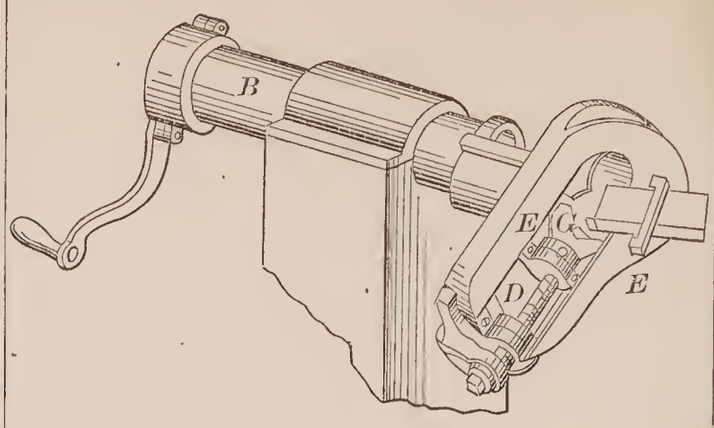




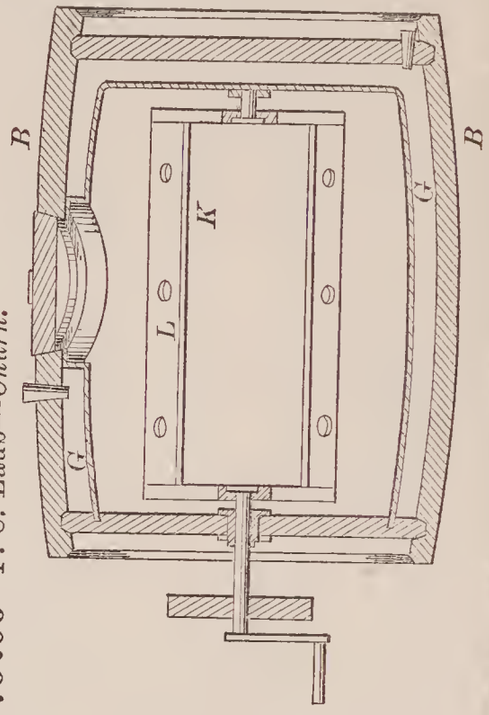
76203—A. Knobel—*Hot Air Furnace.*



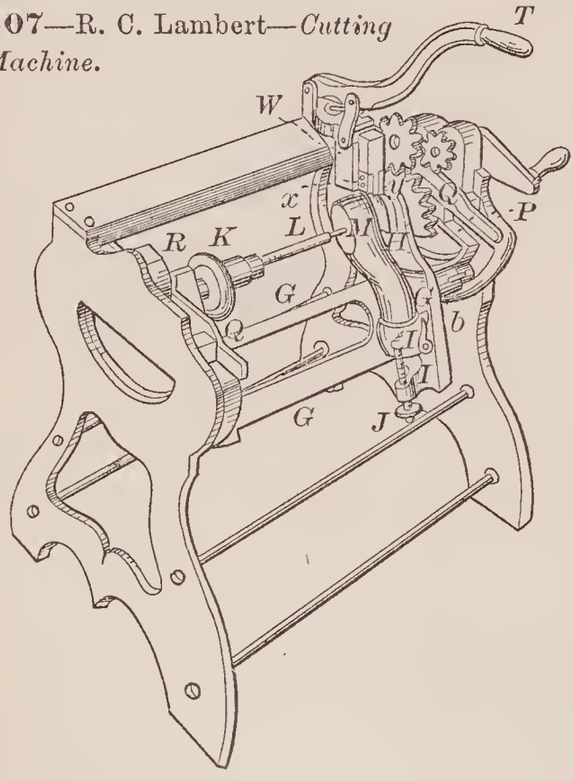
76205—F. Kraus—*Hollow Auger.*

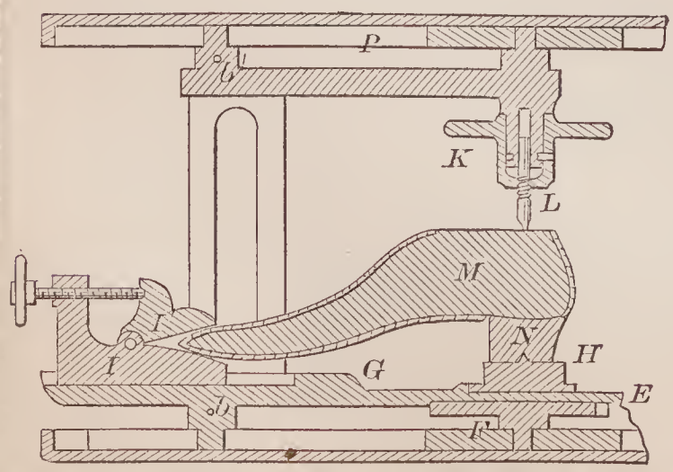


76206—P. C. Laub—*Churn.*

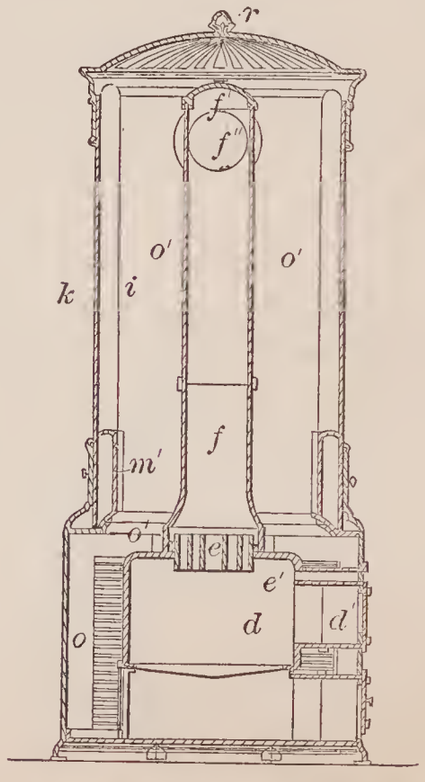


76207—R. C. Lambert—*Cutting Machine.*

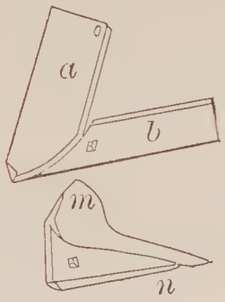




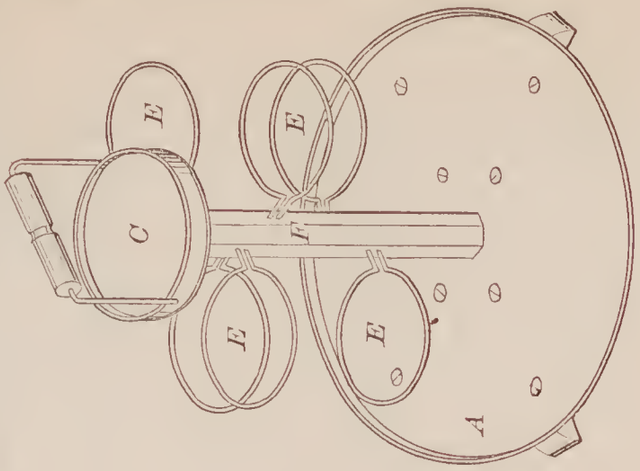
76204—A. Knobel—*Coal Stove.*



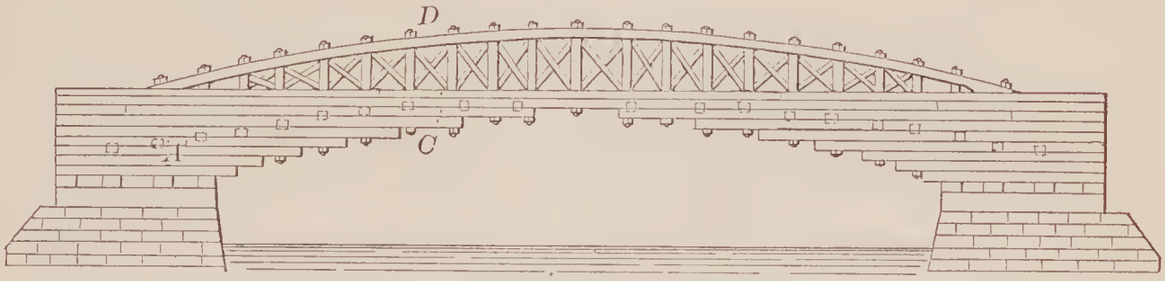
76208—J. Lane—*Plow.*



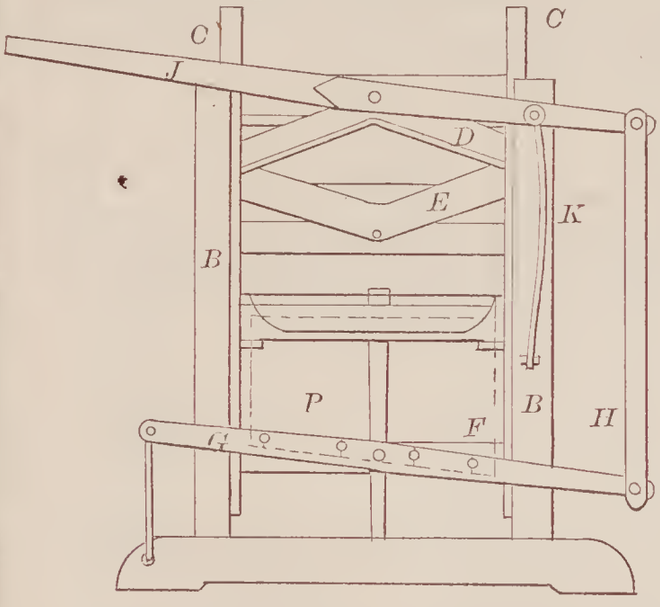
76211—J. C. Libbey—*Table Waiter.*

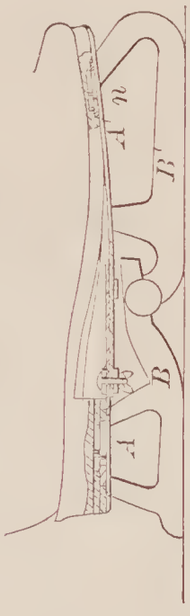


76212—L. Liscum—*Bridge.*

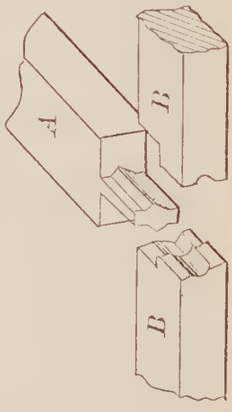


76209—J. Laughlin—*Straw Cutter.*

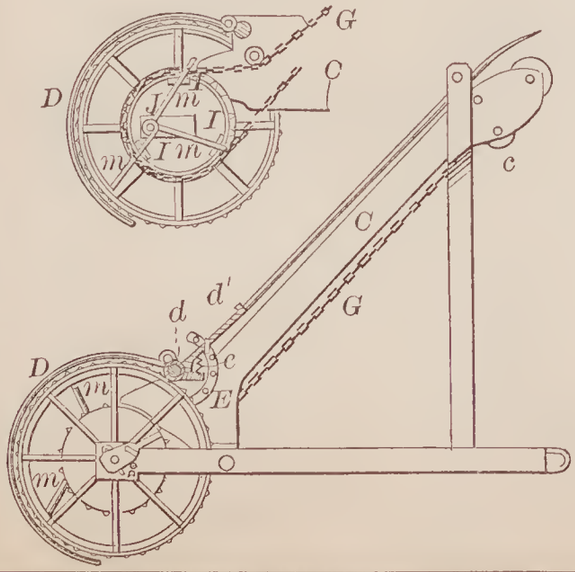




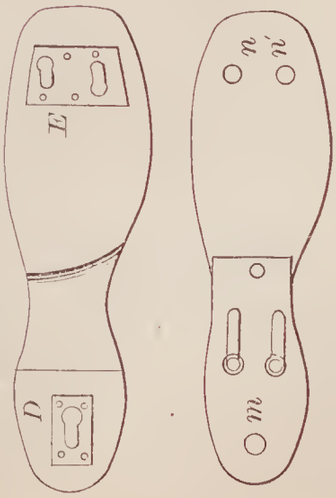
76210—W. J. Lewis—*For Heading Bolts.*



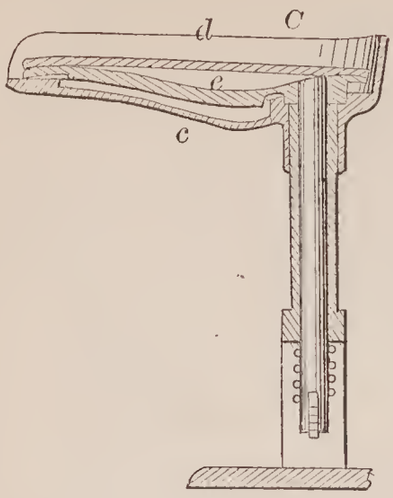
76215—O. Luce—*Hay Raker and Loader*



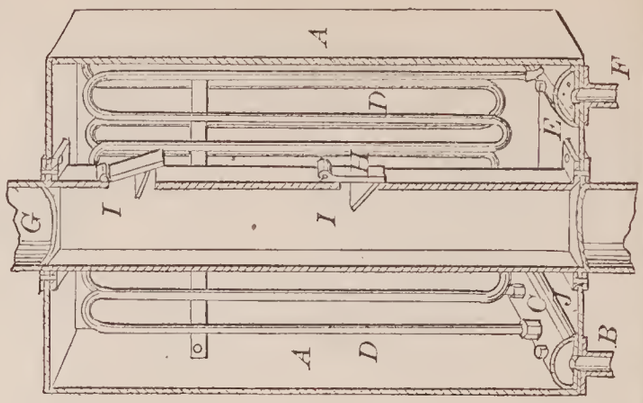
76214—Lovelidge & Grindrod—*Skate.*



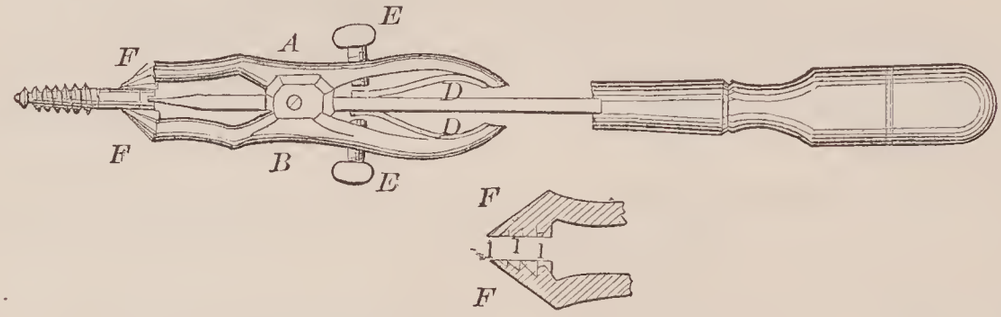
76216—Lucy & Murphy—*For Lining Boots and Shoes.*



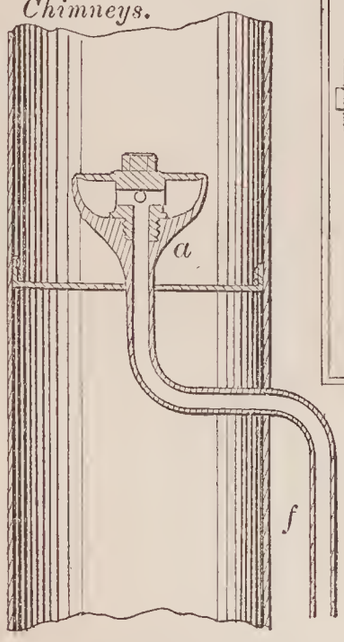
76217—G. W. Mack—*Feed Water Heater for Steam Generators.*



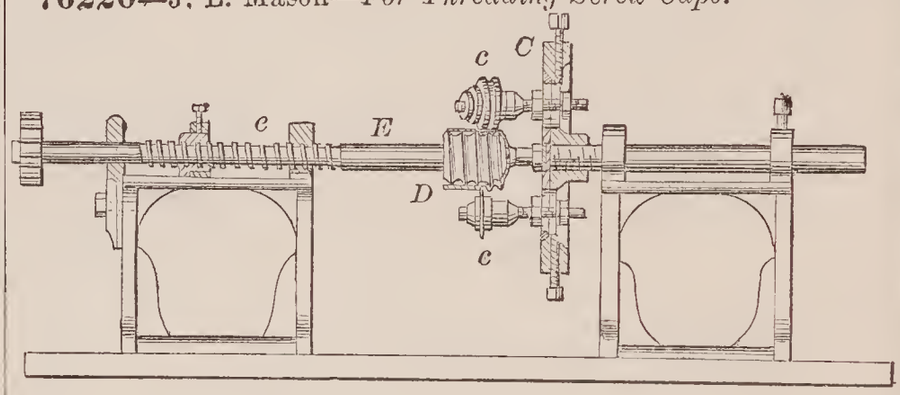
76218—J. W. Marsh—*Combination Tool.*



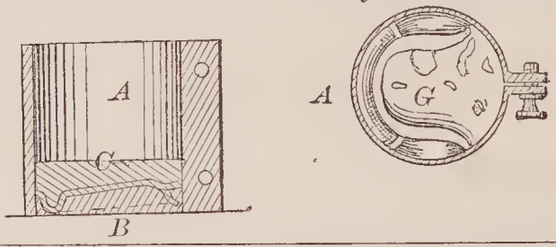
76219—W. H. Martin—*Creating Draft in Chimneys.*



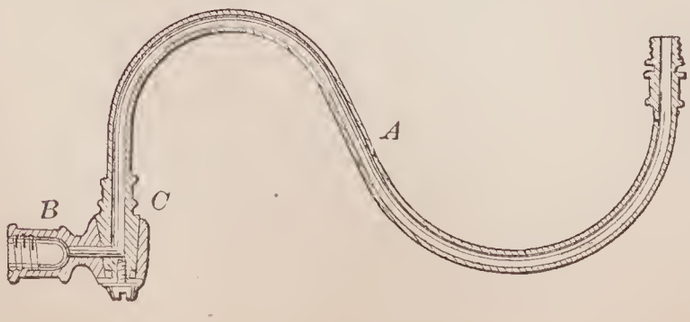
76220—J. L. Mason—*For Threading Screw Caps.*



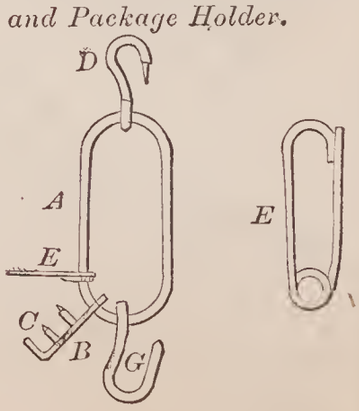
76221—J. A. McClelland—*Artificial Teeth Mould.*



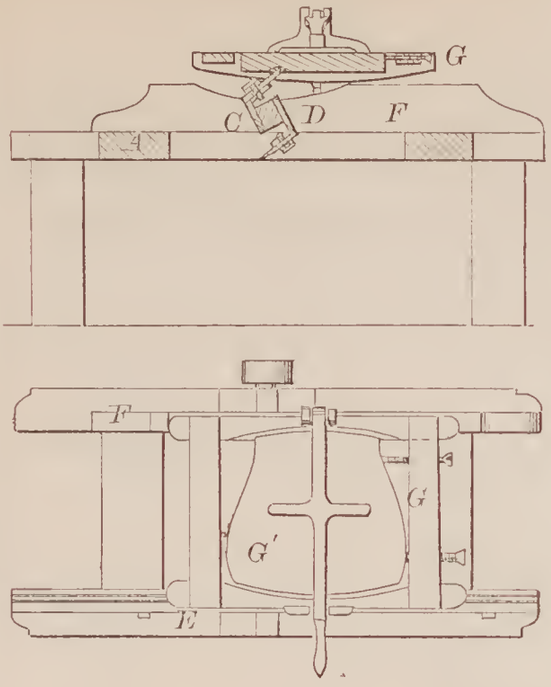
76222—E. McClintock—*Gas Fixture.*



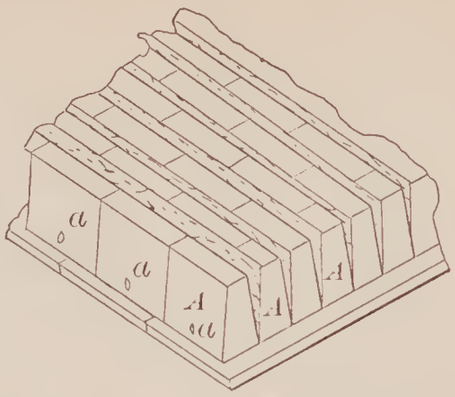
76224—J. K. McDonald—*Door and Package Holder.*



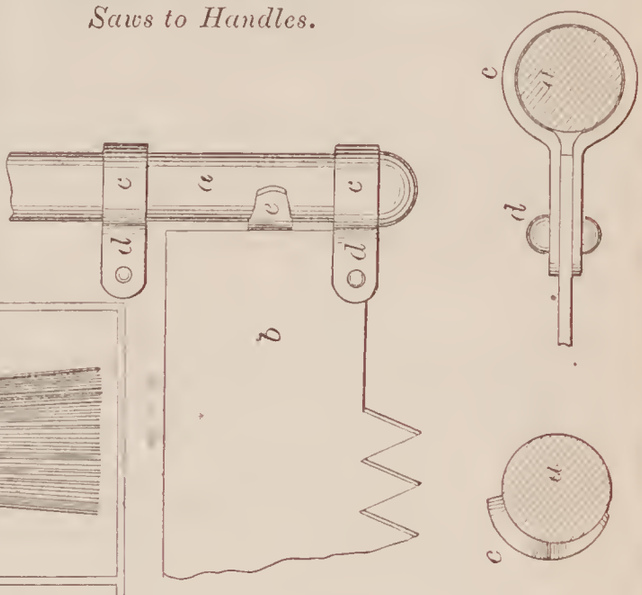
76226—H. Meyer—*For Dressing Chair Seats.*



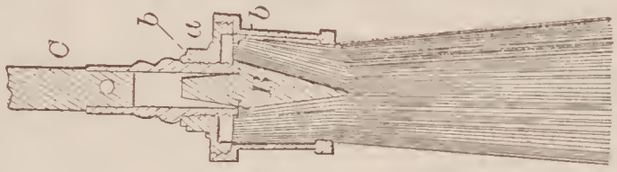
76227—Miller & Mason—*Wood Pavement.*



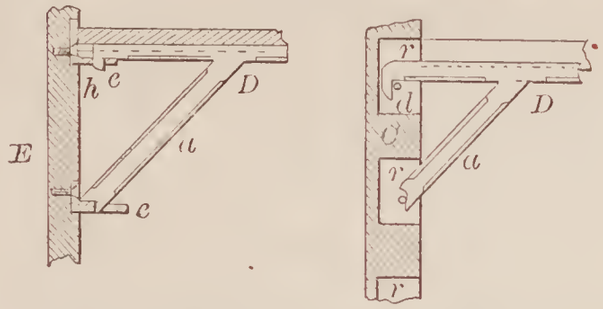
76228—W. P. Miller—*Attaching Cross Cut Saws to Handles.*



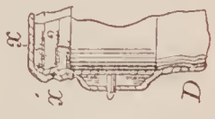
76230—J. W. Moore—*Paint Brush.*



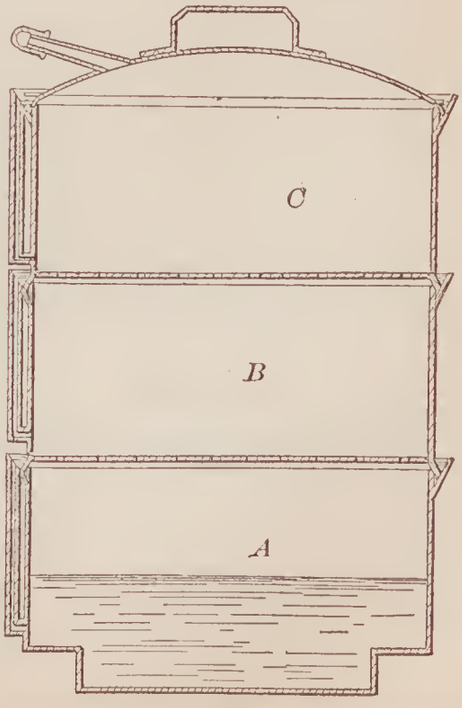
76232—E. S. Moore—*Shelf Bracket.*



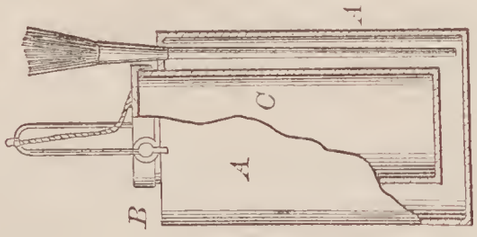
76229—D. Miller—*Paint Can.*



76231—F. Morandi—*Culinary Apparatus.*

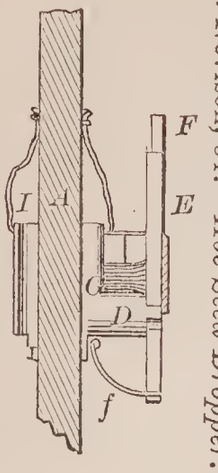


76233—W. F. Muehmore—*Glue Can.*

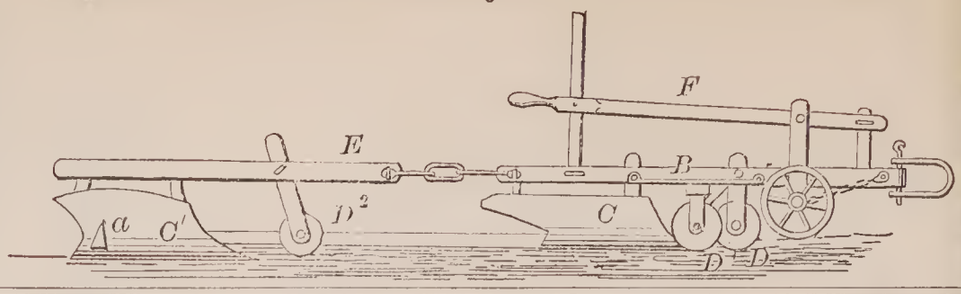


76234—J. Nealey, Jr.—*Lacing Device.*

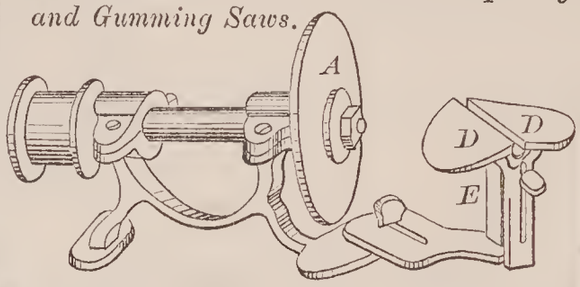
76235—T. Nevison, Jr.—*Hoe Seed Dropper.*



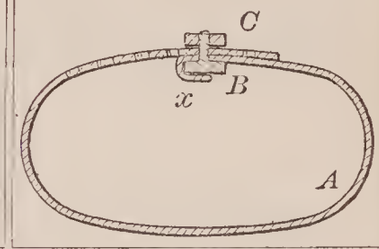
76237—W. A. Nichols—*Ditching Machine.*



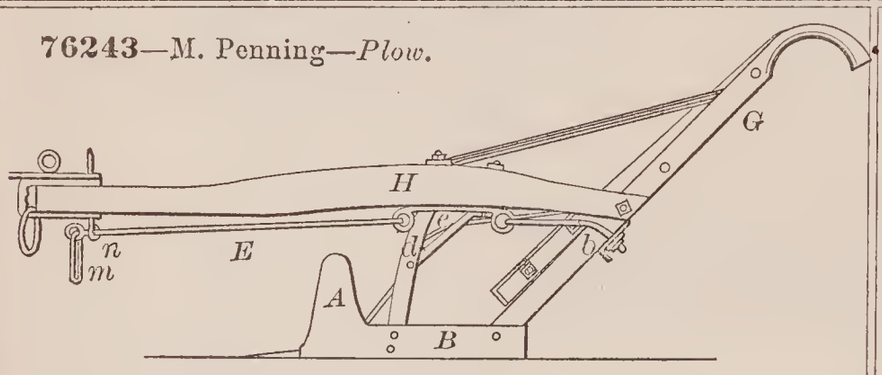
76236—A. W. Newhall—*For Sharpening and Gumming Saws.*



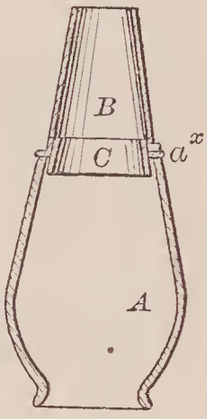
76238—H. W. Oliver, Jr.—*Band for Baling Cotton.*



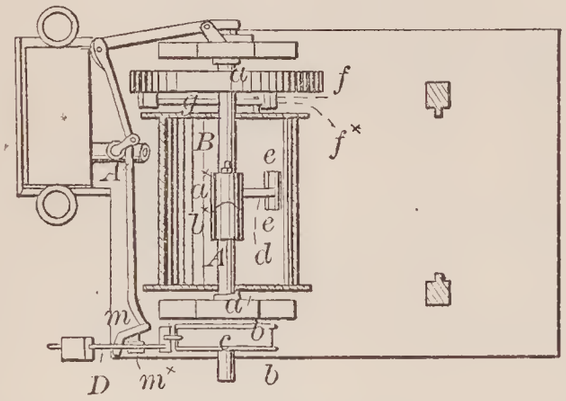
76243—M. Penning—*Plow.*



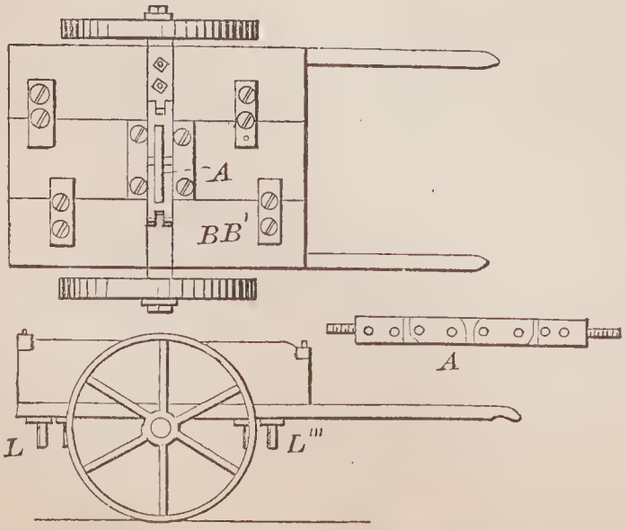
76239—Onions & Roberts—*Lamp Chimney.*



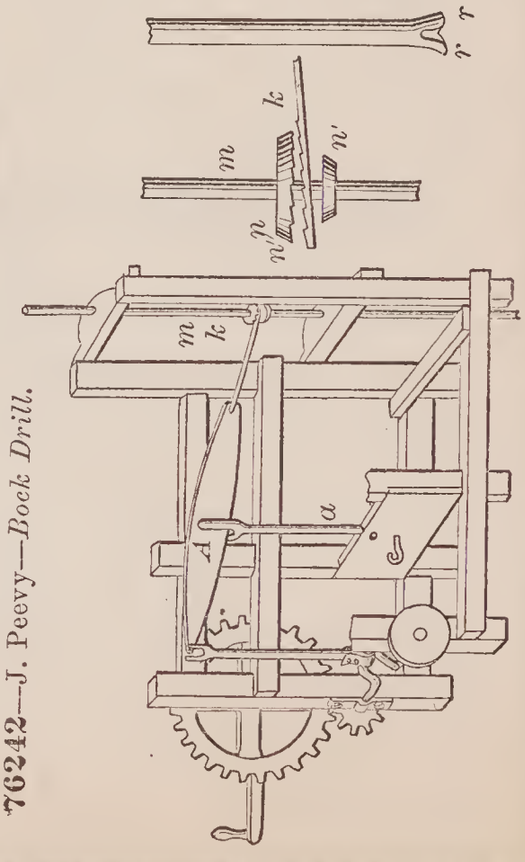
76240—C. R. Otis—*Hoisting Apparatus.*



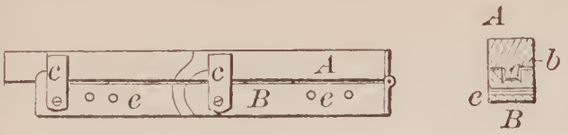
76241—F. Parkerson—*Wheelbarrow.*



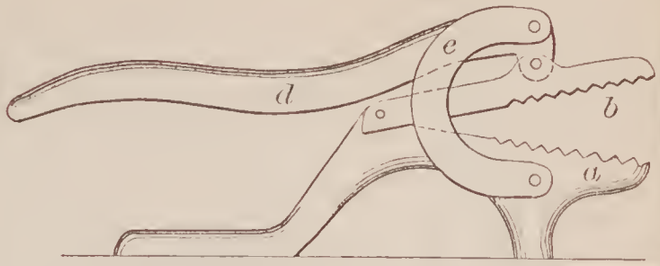
76242—J. Peevy—*Rock Drill.*



76246—C. Powers—*Clamp for Holding Palm Leaf Warp.*

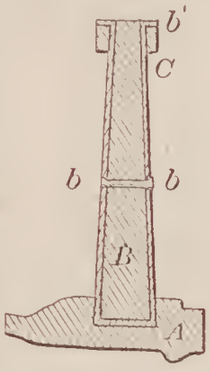


76247—E. L. Pratt—*Nut Cracker.*

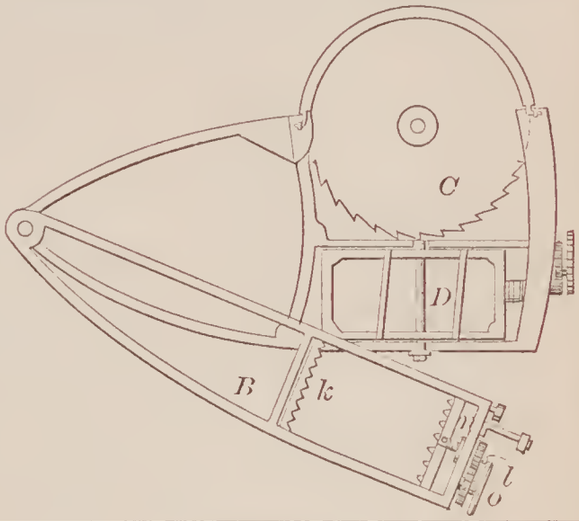


76248—W. Richardson—*Basket Holder.*

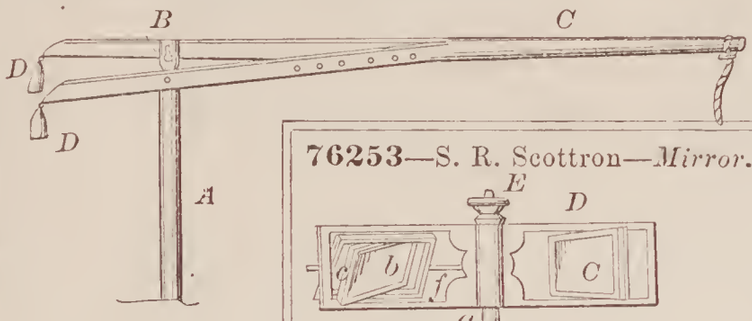
76249—P. R. Ridgely—*Wagon Wheel.*



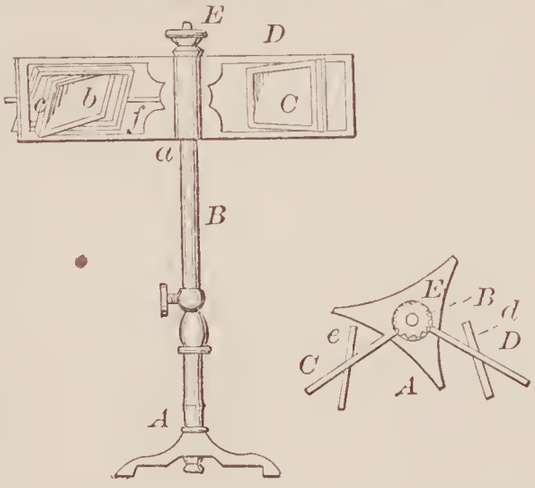
76250—D. W. Roche—*Shingle Machine.*



76254—J. Scribner—*Animal Tether.*

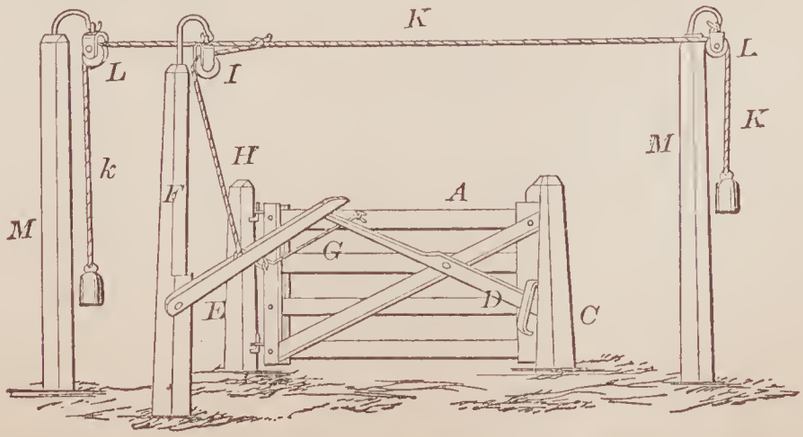


76253—S. R. Scottron—*Mirror.*

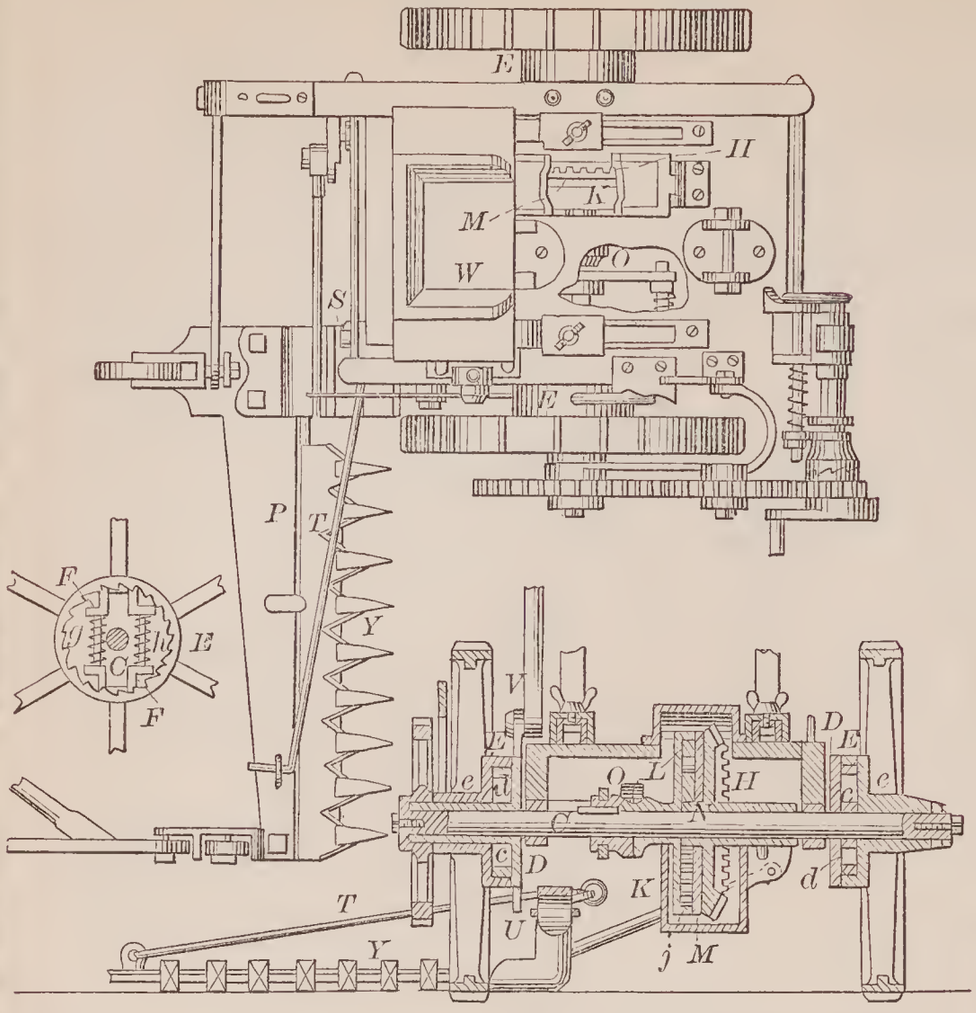


76252—L. J. Schaefer—*Curtain Fixture.*

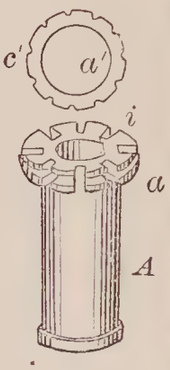
76251—E. Roth—*Gate.*



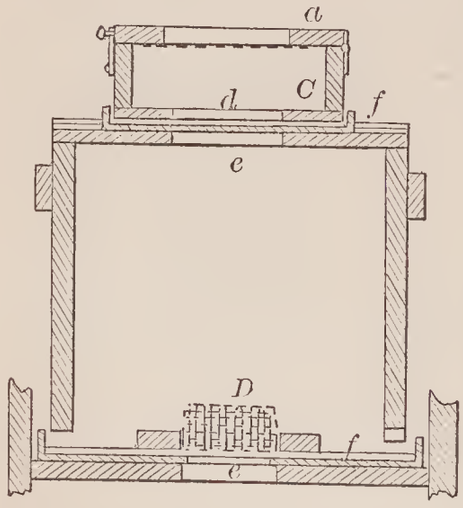
76255—A. Shebanck—*Harvester.*



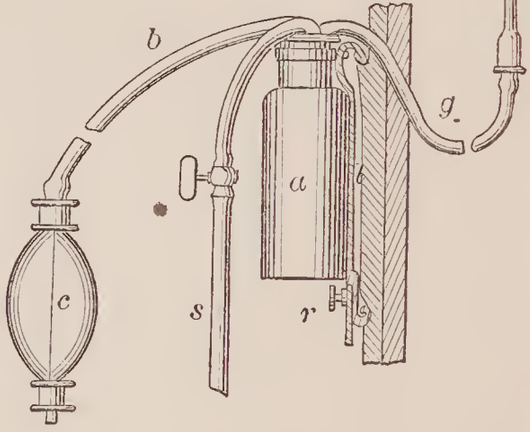
76259—O. M. Smith—*Umbrella Runn.*



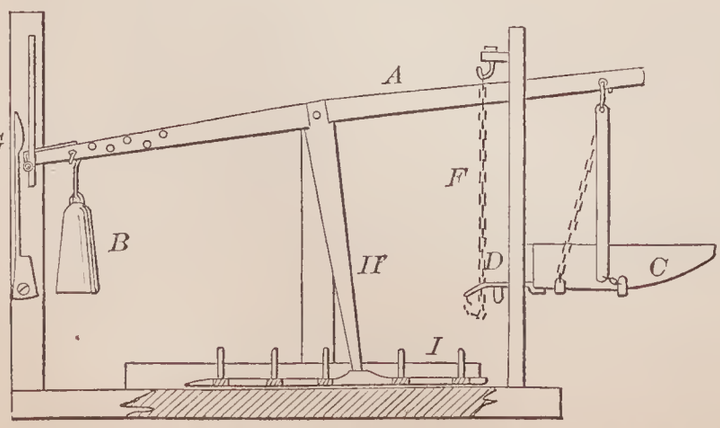
76258—Smith & Reed—*Beehive.*



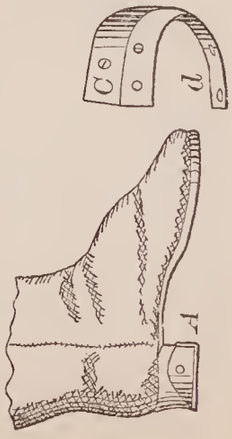
76257—A. M. Shurtleff—*Saliva Pump.*



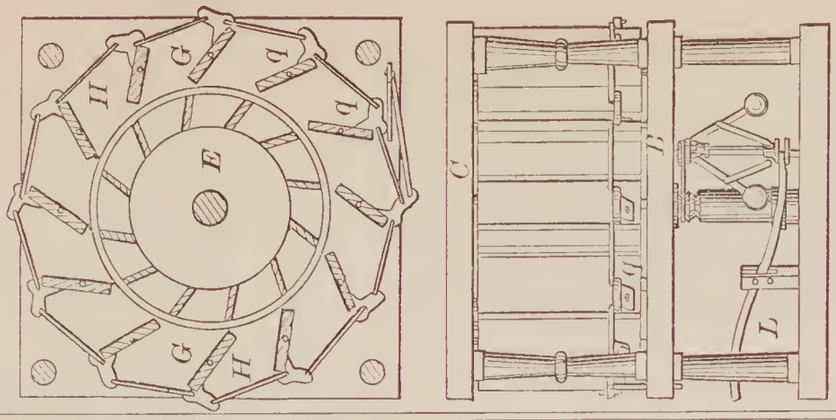
76260—J. H. Soule—*Milk Stirrer.*



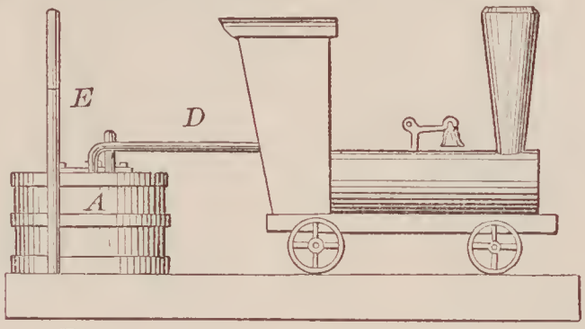
76262—A. H. Southwick—*Heel Protector.*

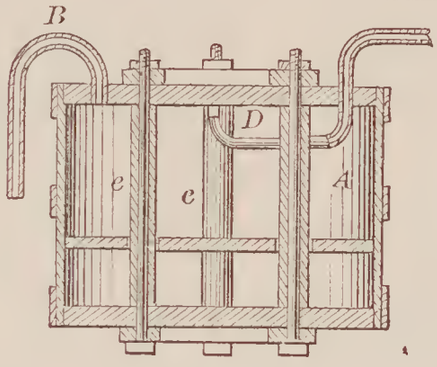


76261—A. H. Southwick—*Windmill.*

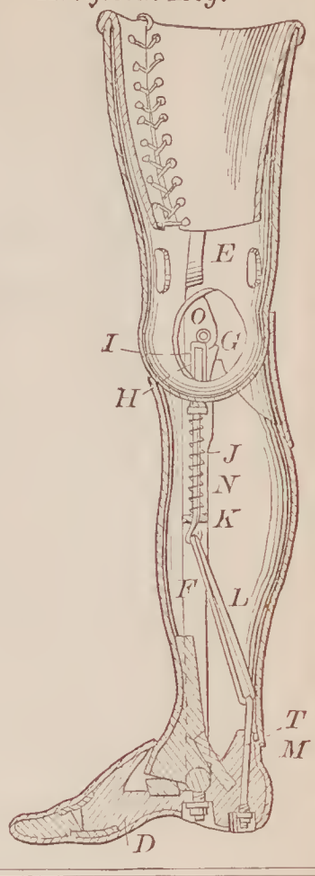


76264—C. L. Stevens—*Steam Water Elevator.*

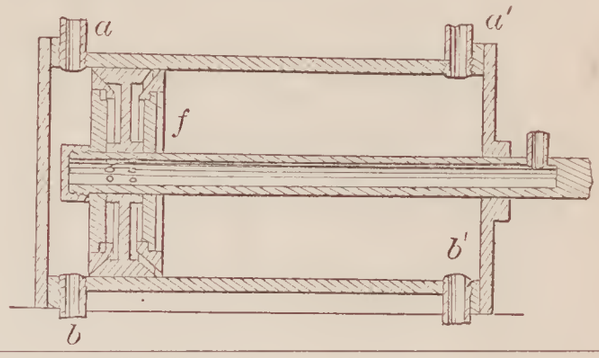




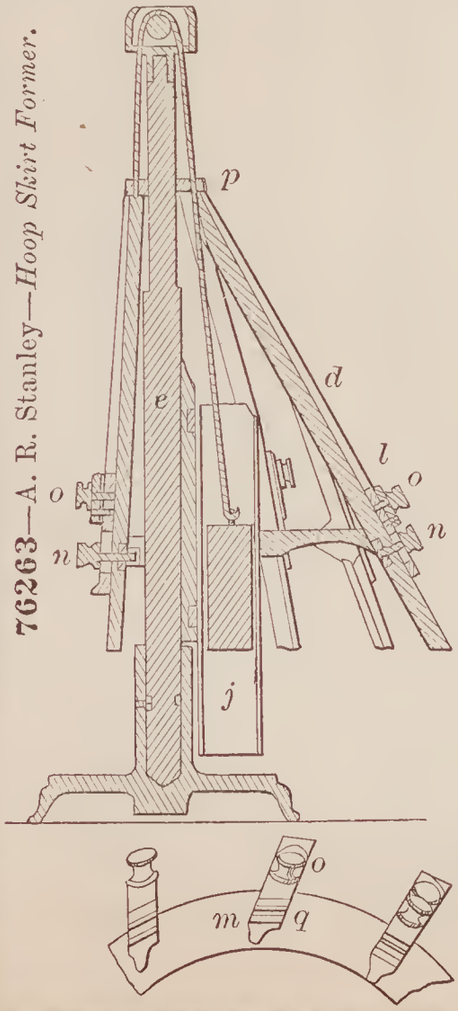
76267—A Strasser—*Artificial Leg.*



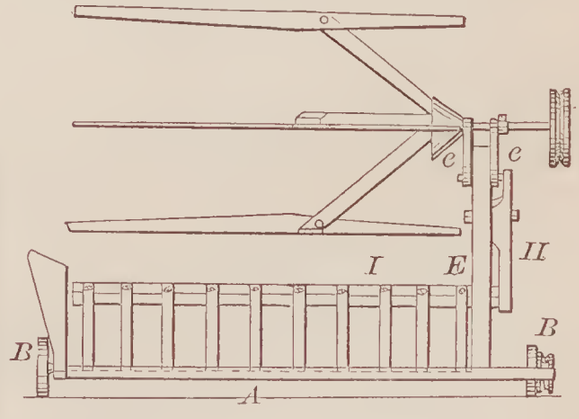
76268—W. Swayne—*Piston.*



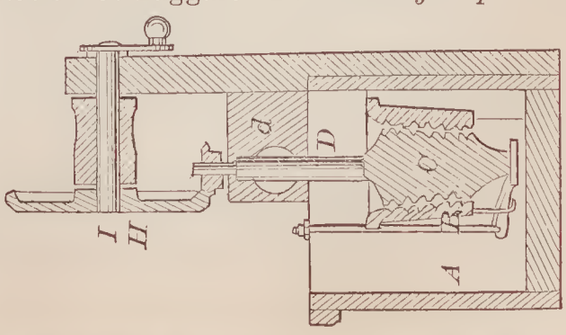
76263—A. R. Stanley—*Hoop Skirt Former.*



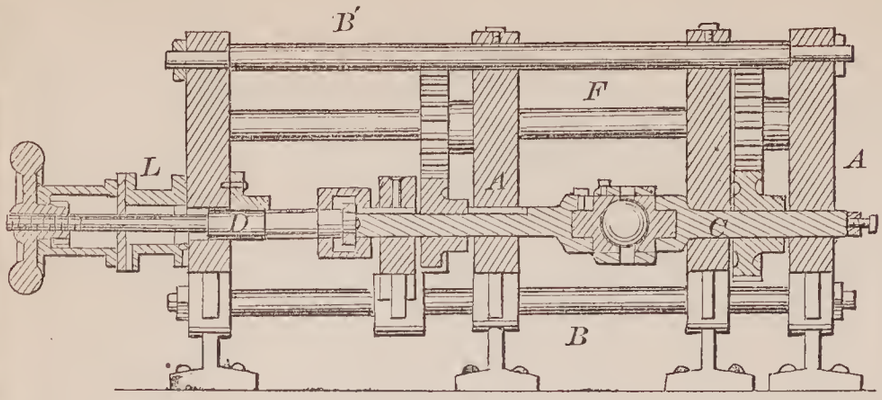
76269—C. R. & J. O. Taber—*Dropping Platform for Harvesters.*



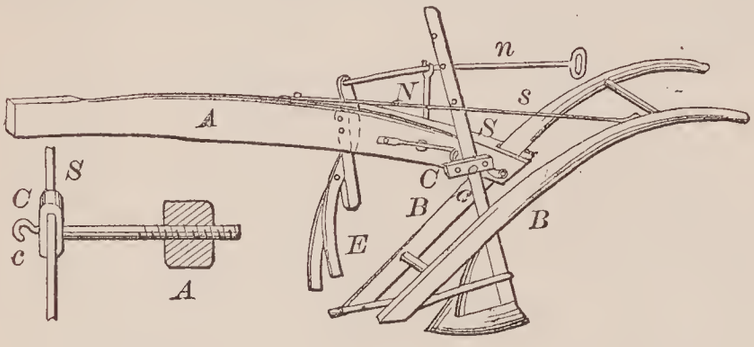
76270—J. Taggart—*For Making Paper Pulp.*



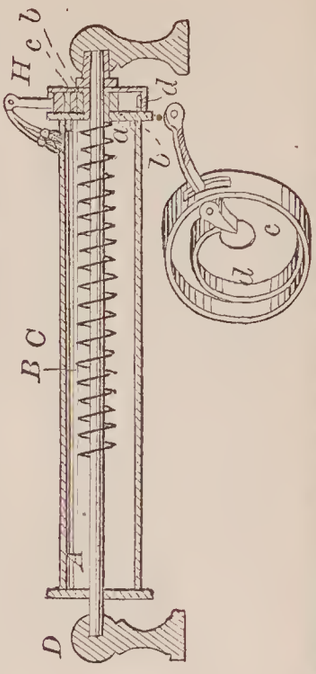
76271—J. B Tarr—*Manufacture of Spherical Shot and Shell.*



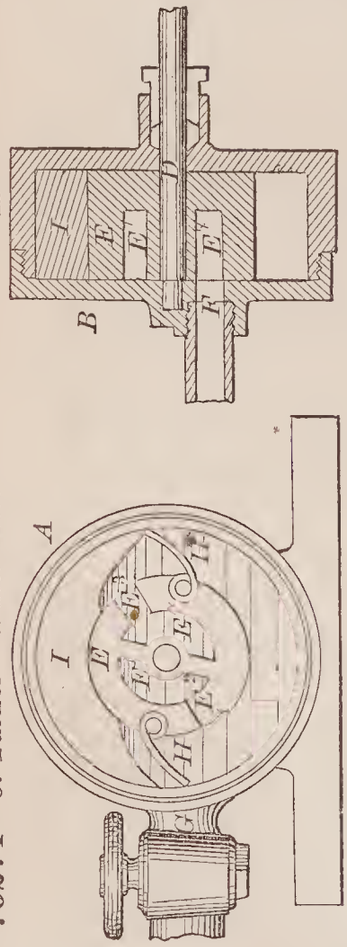
76275—S. D. Tuttle—*Subsoil Plow.*



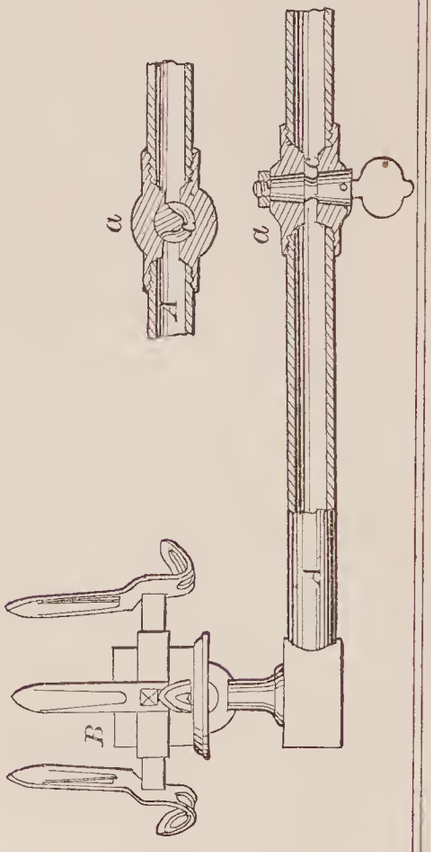
76273—C. E. Thompson—*Carriage Curtain Fixture.*



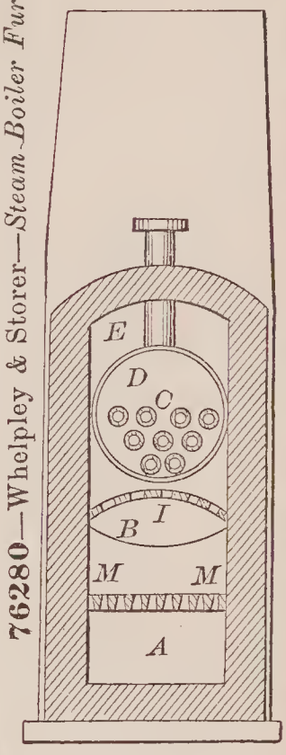
76274—C. Turner—*Water Meter*



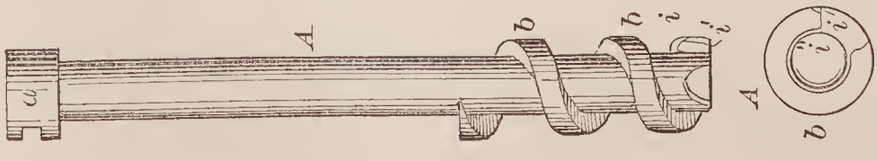
76277—S. B. H. Vance—*Gas Burner Cock.*



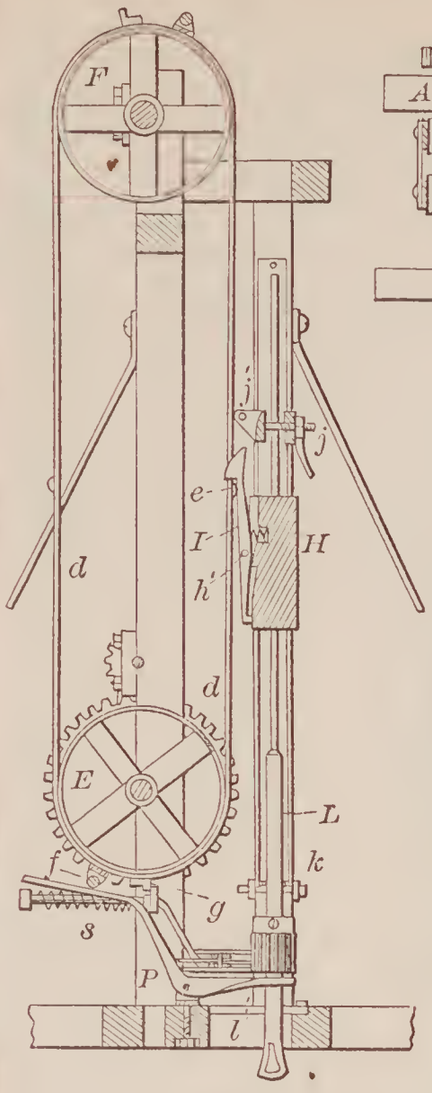
76280—Whelpley & Storer—*Steam Boiler Furnace.*

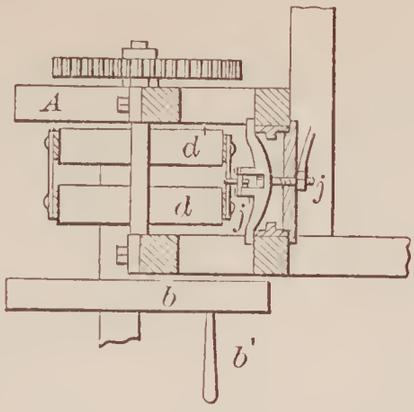


76278—A. C. Vaughan—*Auger*

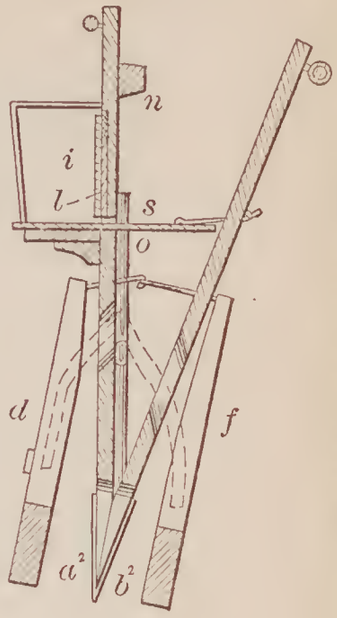


76279—W. Weiler—*Rock Drilling Machine.*

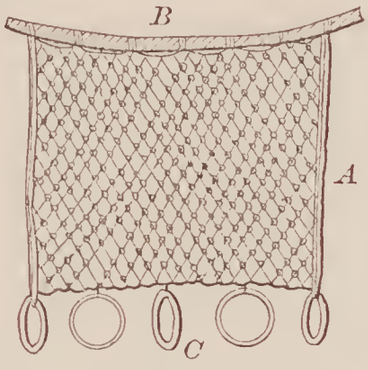




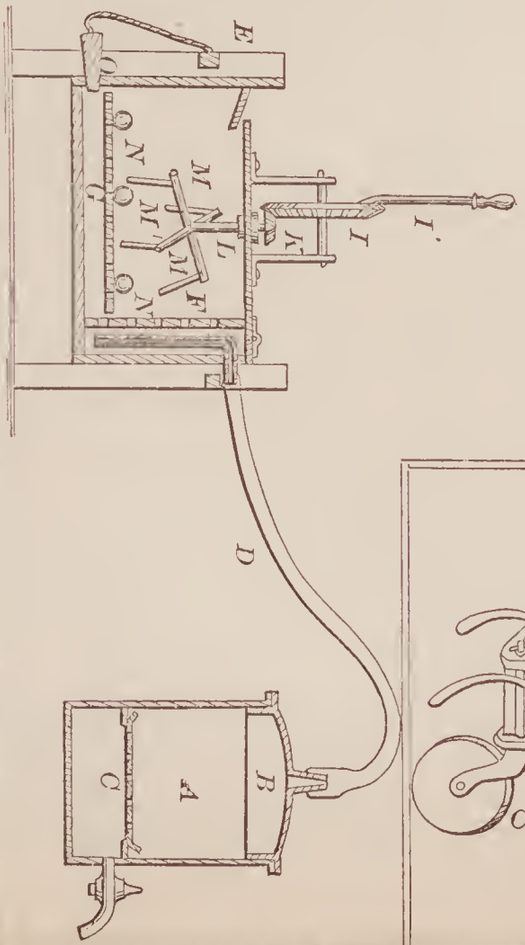
76282—T. H. Wible—*Corn Planter.*



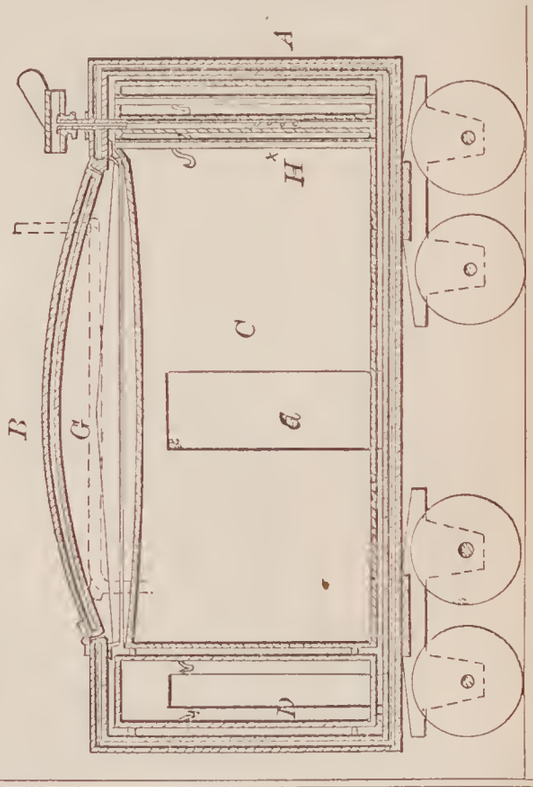
76284—D. Wills—*Gill Net.*



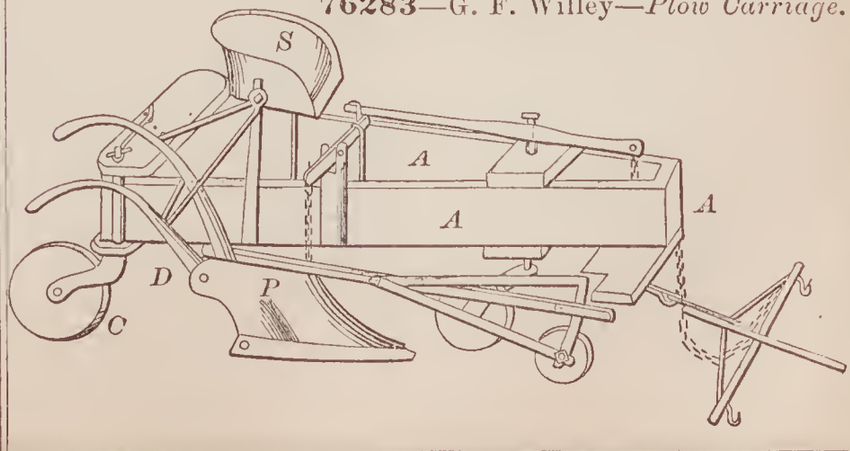
76281—L. H. Whitney—*Washing Machine.*



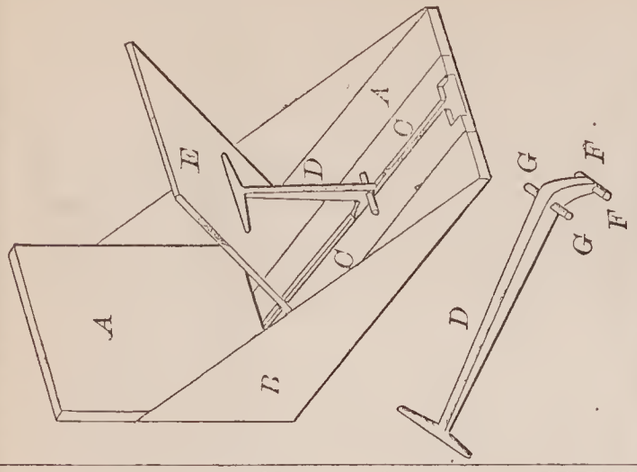
76285—G. K. Wood—*Refrigerating Car.*



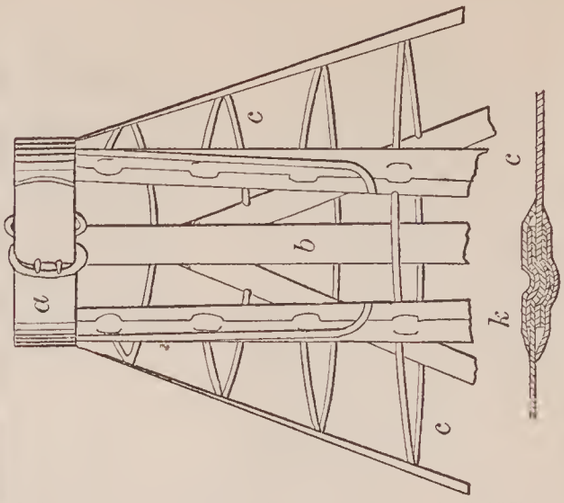
76283—G. F. Willey—*Plow Carriage.*



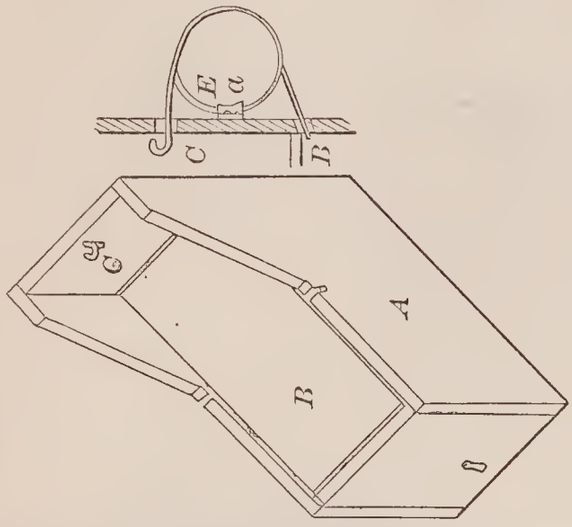
76287—Woodruff & Green—*Paper File.*



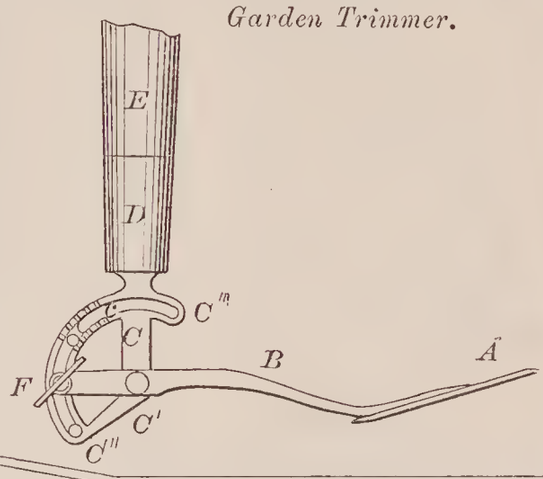
76291—A. R. Stanley—*Hoop Skirt.*



76289—W. L. Starr—*Animal Trap.*



76288—I. Pardee—*Scuffle Hoe and Garden Trimmer.*



76292—G. G. Wolfe—*Cooking Stove Tank.*

Fig. 1

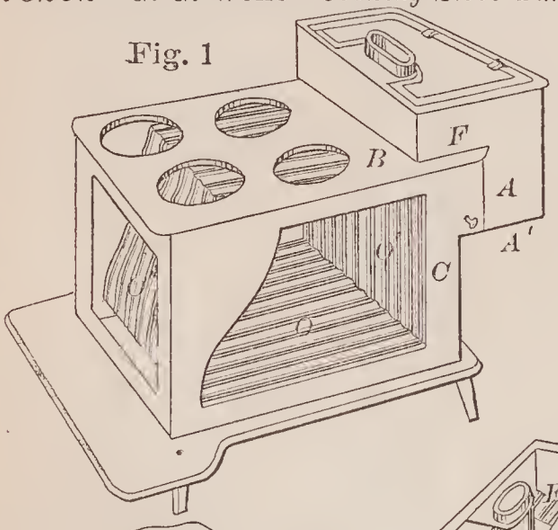
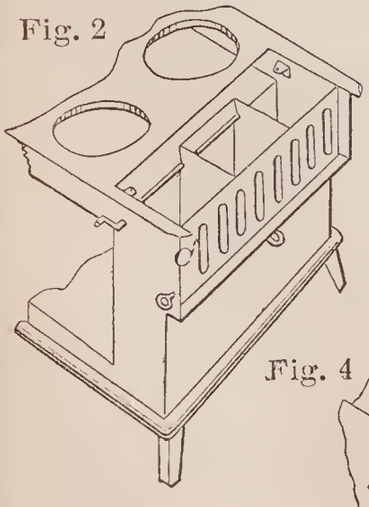


Fig. 2



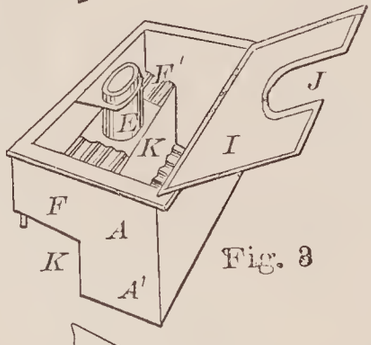
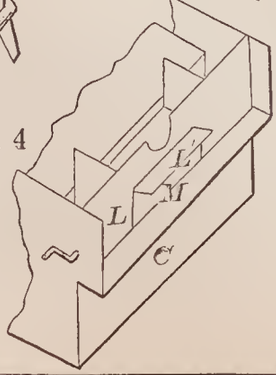
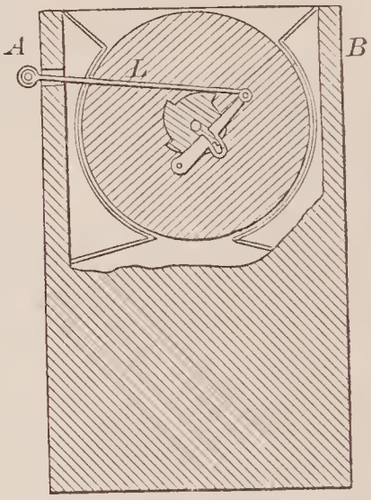


Fig. 3

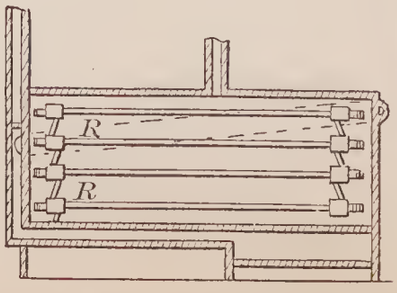
Fig. 4



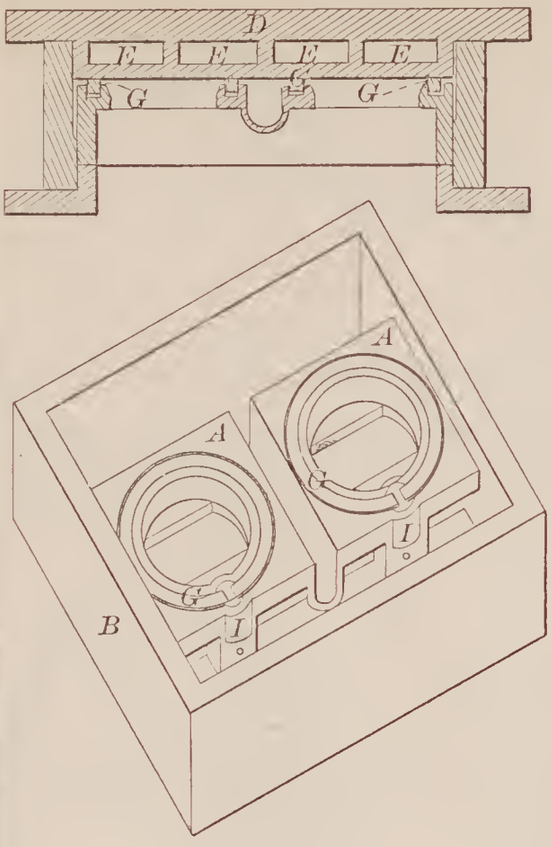
76290—J. E. Woodruff—*Fare Box for Passenger Cars.*



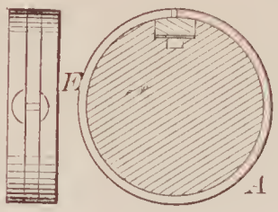
76293—W. Mullee—*Manufacture of Hard Rubber.*



76294—T. A. Bisbee—*Slide Valve.*

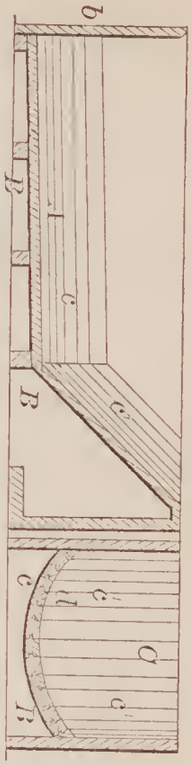


76295—T. A. Bisbee—*Piston Packing.*

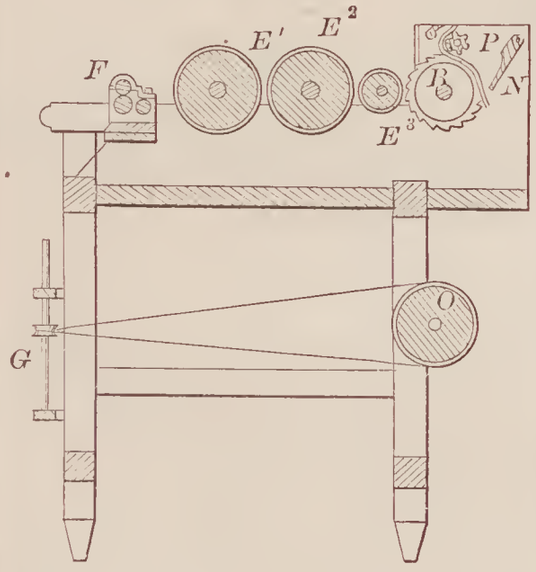


76297—J. Brosins—*Safety Pocket Attachment.*

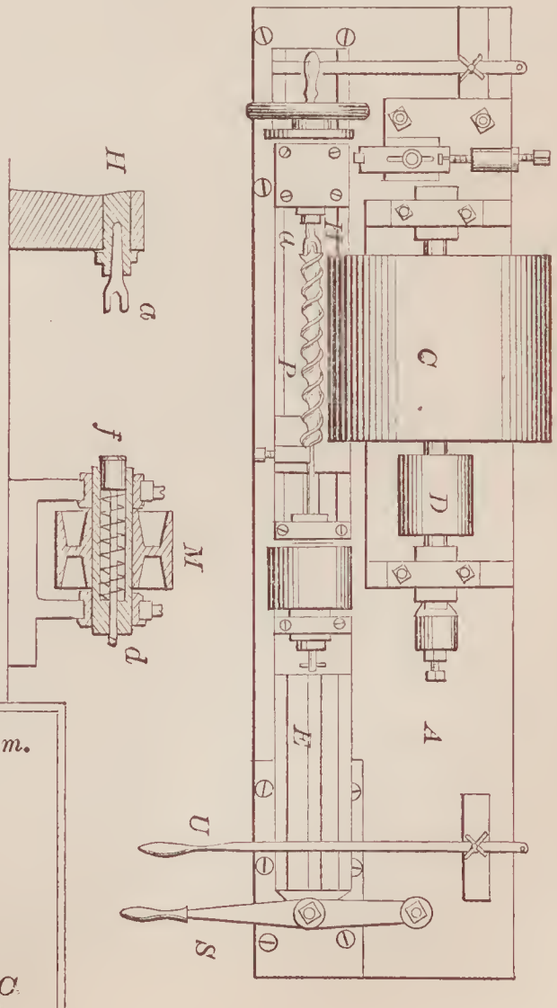
76298—A. C. Brownell—*Bath Tub.*



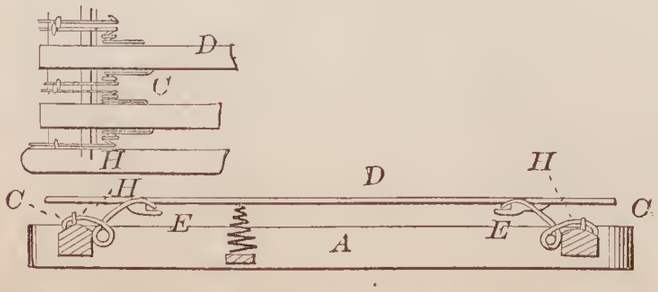
76299—J. E. Burdge—*Spinning Machine.*



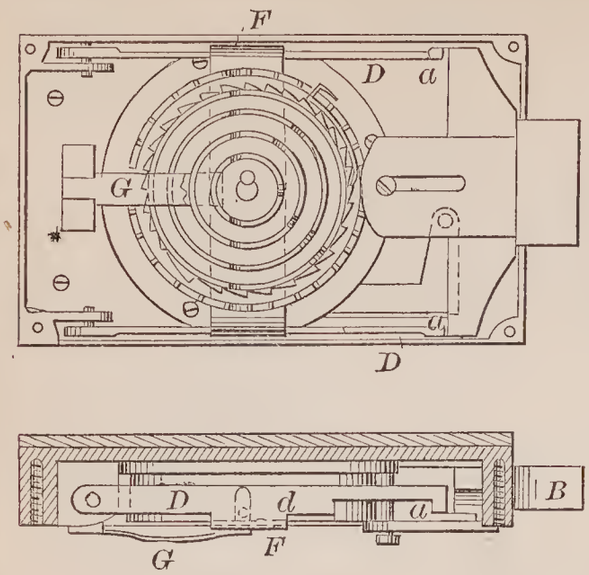
76301—E. O. & E. Carrington—*For Grinding and Cutting Down Augers.*



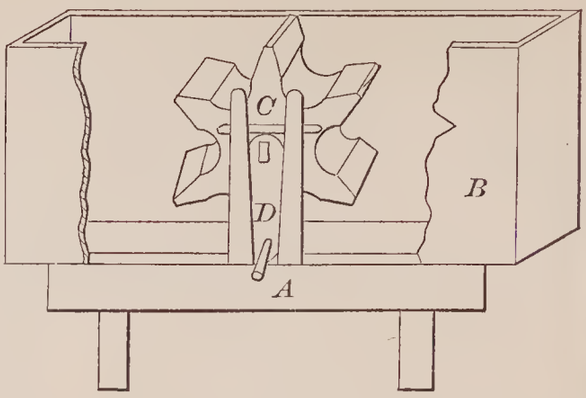
76296—L. R. Bradbury—*Spring Bed Bottom.*



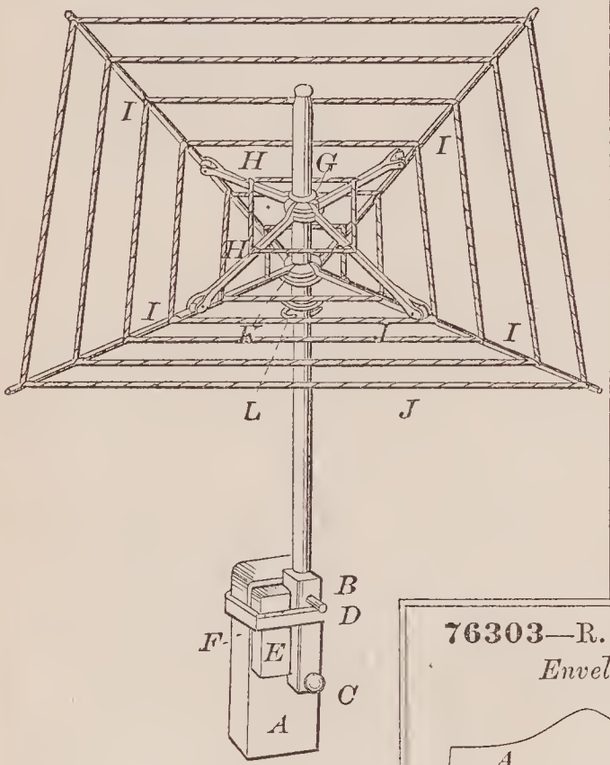
76300—W. C. Bussey—*Combination Lock.*



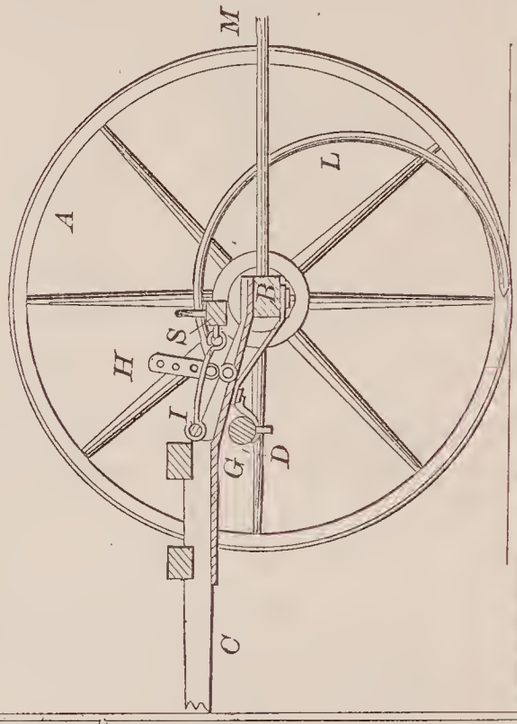
76304—J. L. Colburn—*Butter Worker.*



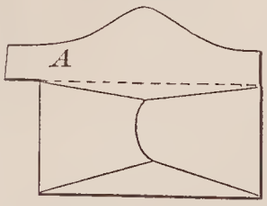
76305—H. P. Crouse—*Clothes Dryer.*



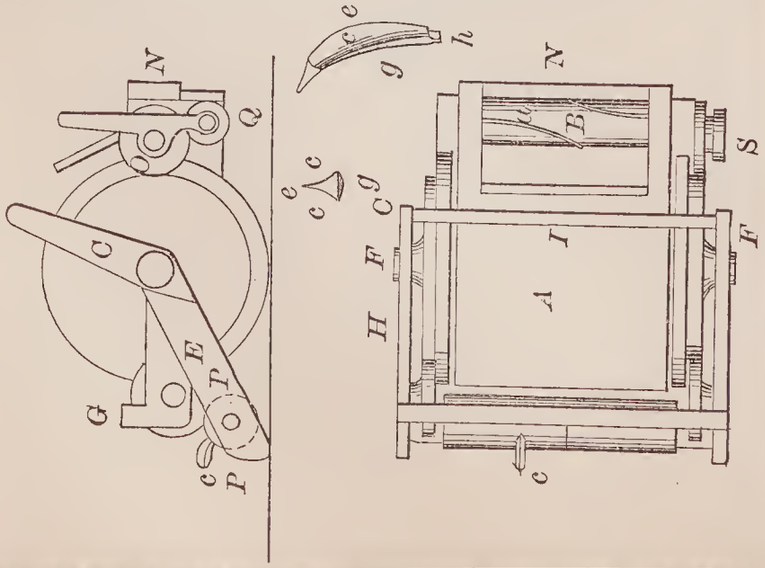
76307—G. Deal—*Horse Rake.*



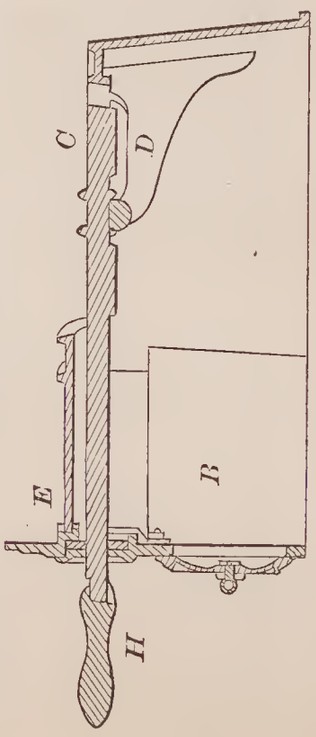
76303—R. S. Clark—*Envelope.*



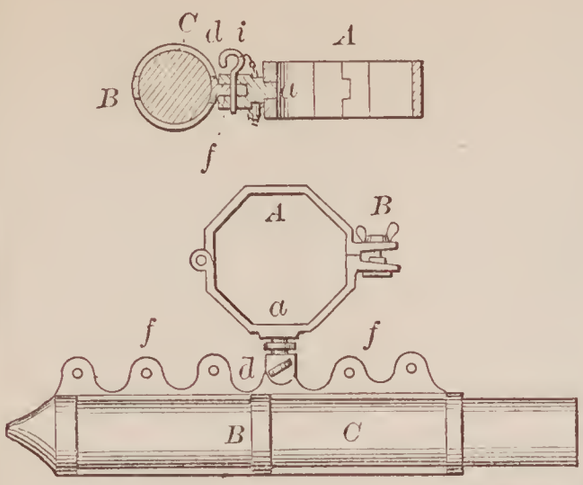
76306—C. G. Curtis—*Seed Sower and Cultivator.*



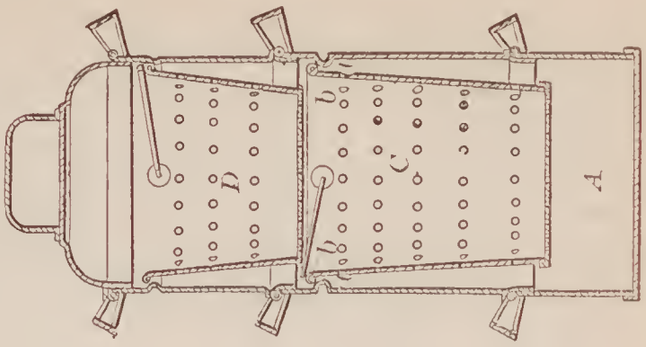
76302—G. Chilson—*Stove Grate.*



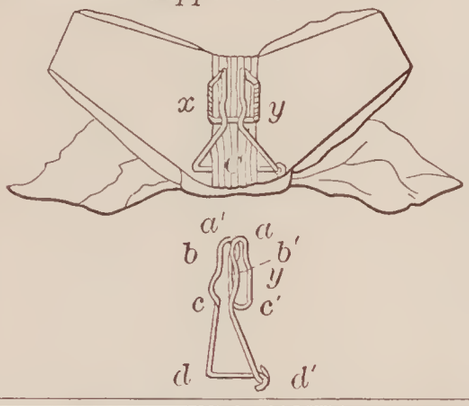
76309—G. Dowling—*Spritsail Boom Sling.*



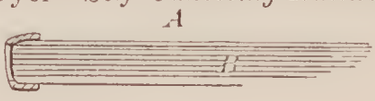
76310—H. L. Duncklee—*Culinary Vessel.*



76312—G. R. Eager—*Necktie Supporter.*



76311—J. Dyer—*Self-Canceling Railway Ticket.*



6313—N. T. Edson—*Washing Machine*

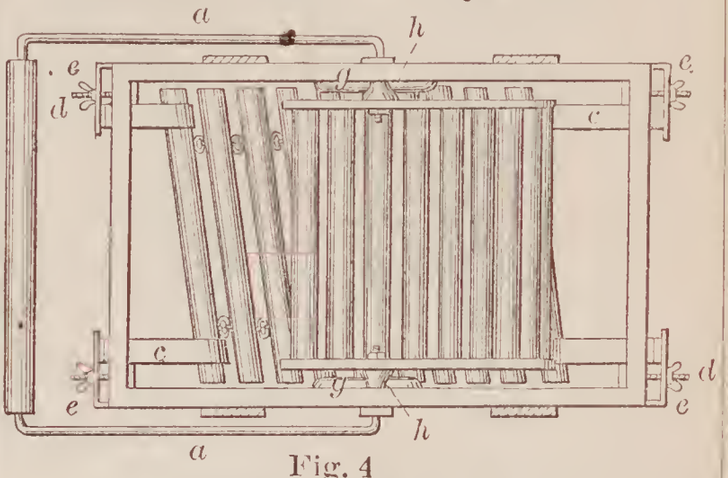
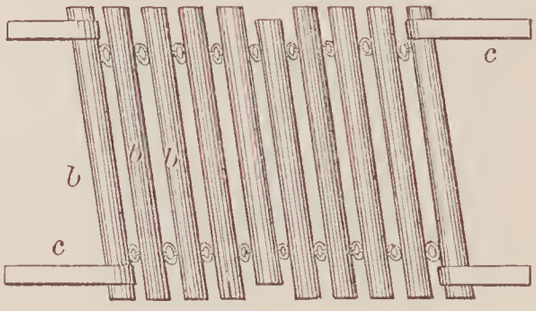
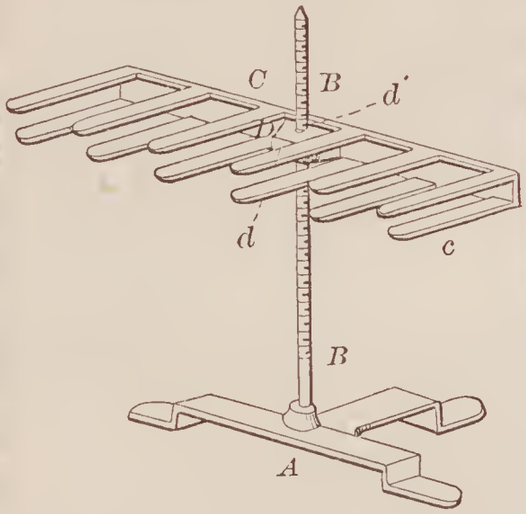


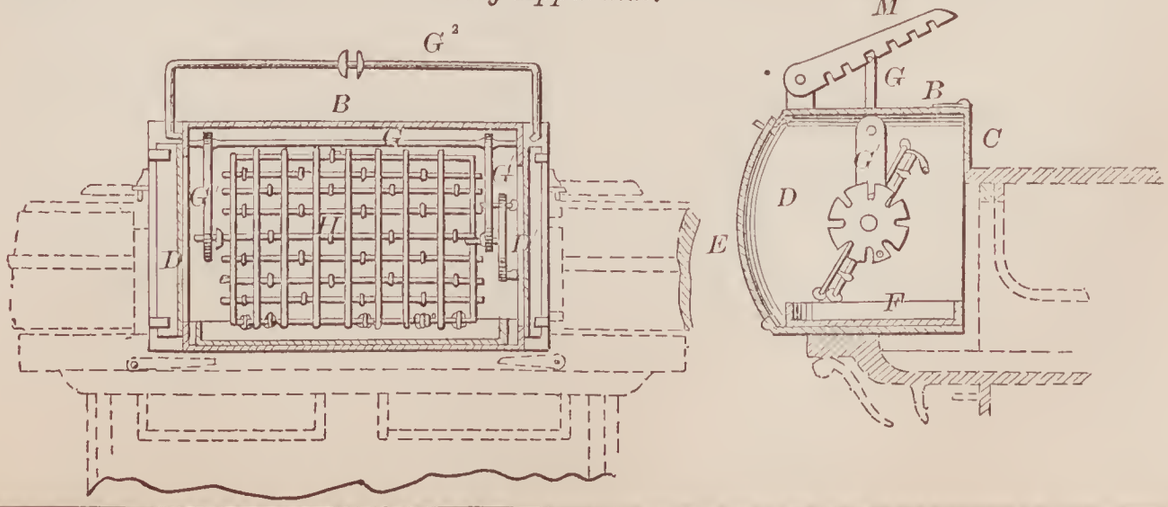
Fig. 4



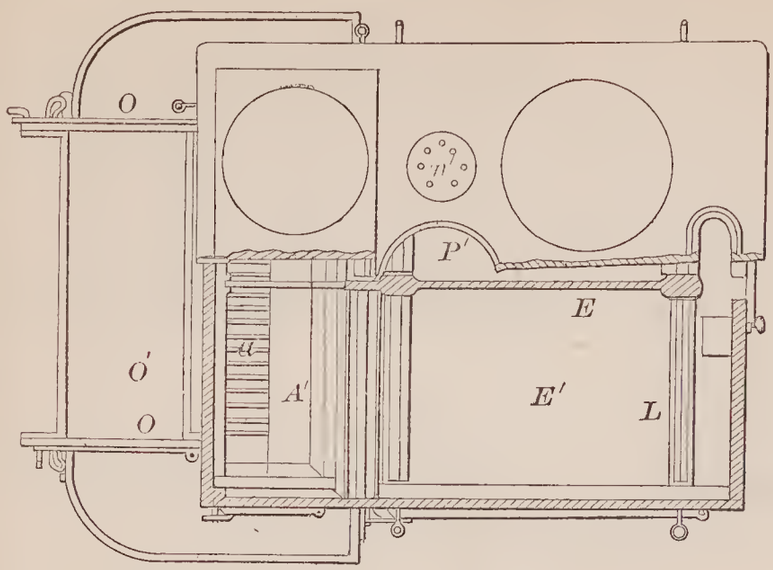
76316—M. E. A. W. Evard—*Toaster.*

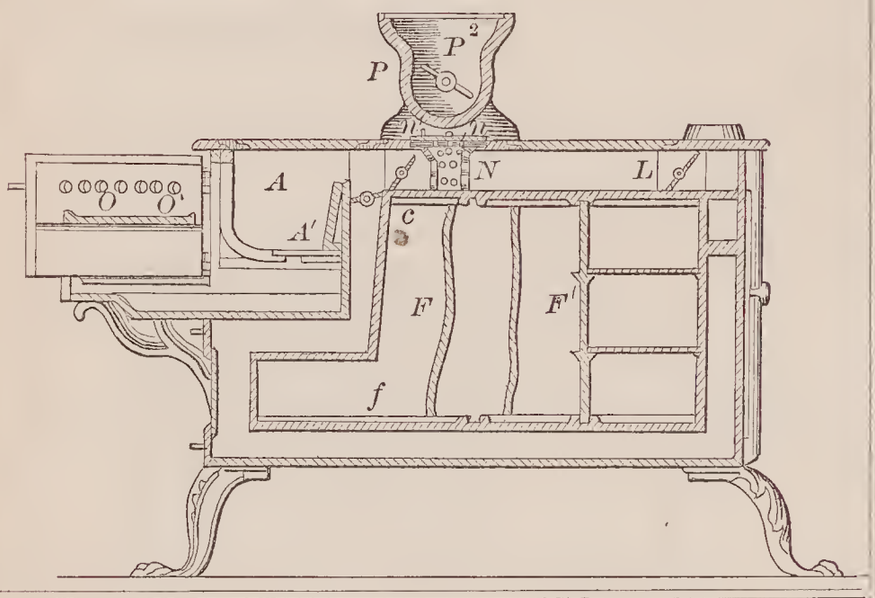


76314—M. E. A. W. Evard—*Broiling Apparatus.*

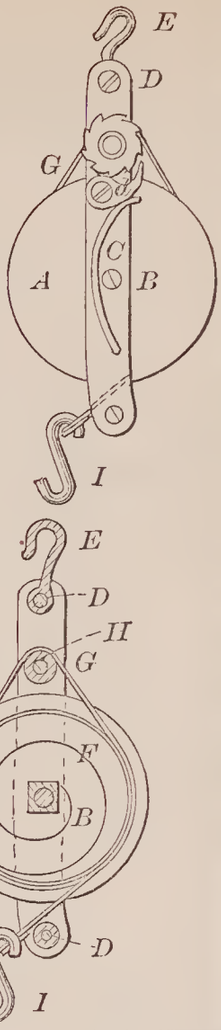


76315—M. E. A. W. Evard—*Cooking Stove.*

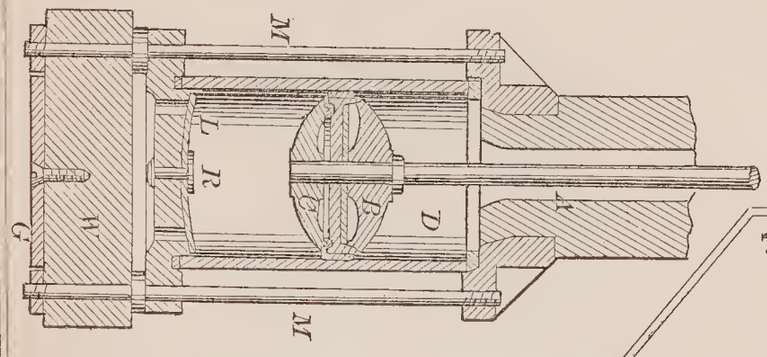




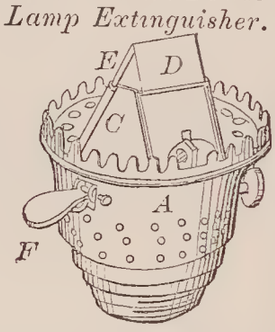
76317—J. A. Evarts—*Suspension Spring for Lamps.*



76318—A. Fisher—*Pump.*



76319—J. W. Fowle—*Lamp Extinguisher.*



76320—C. W. Gage—*Fruit Gatherer.*

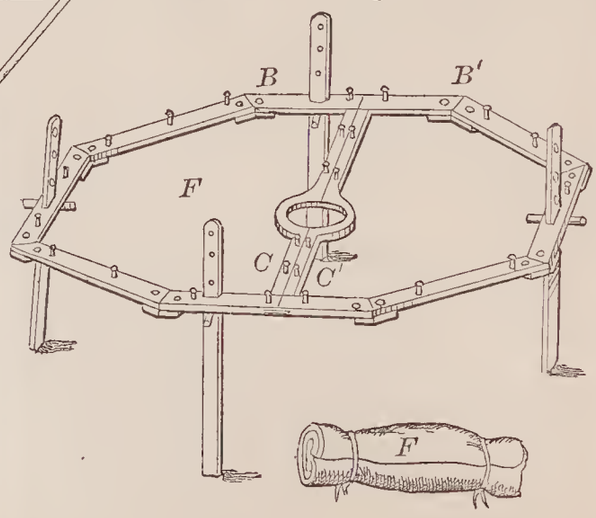
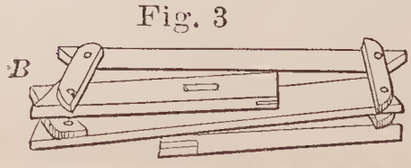
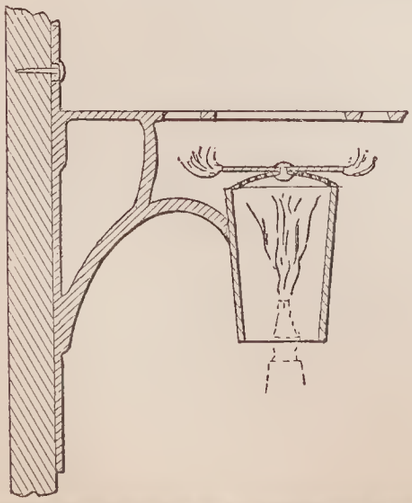


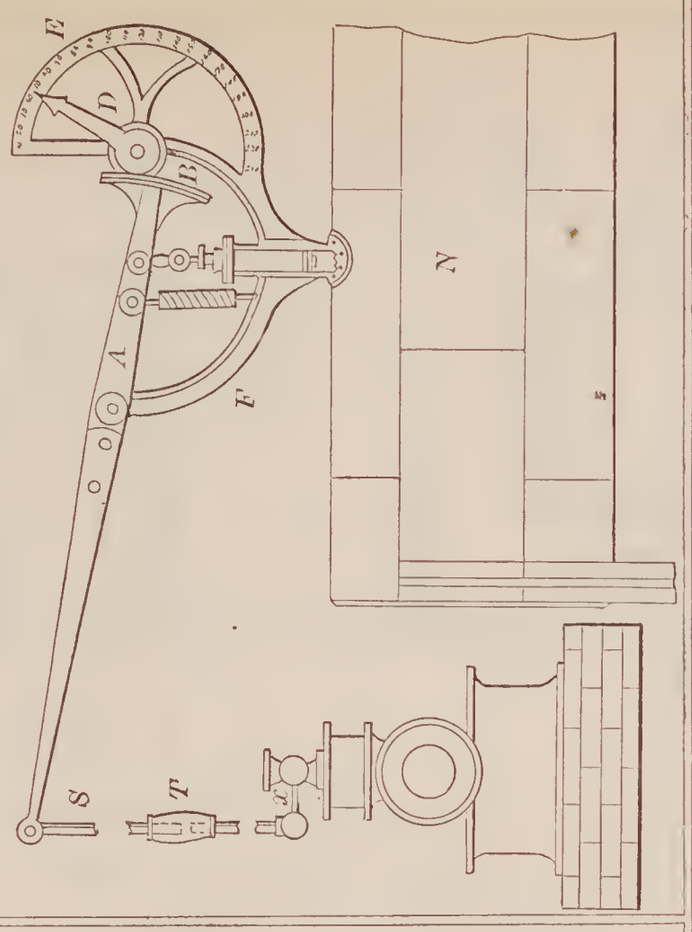
Fig. 3



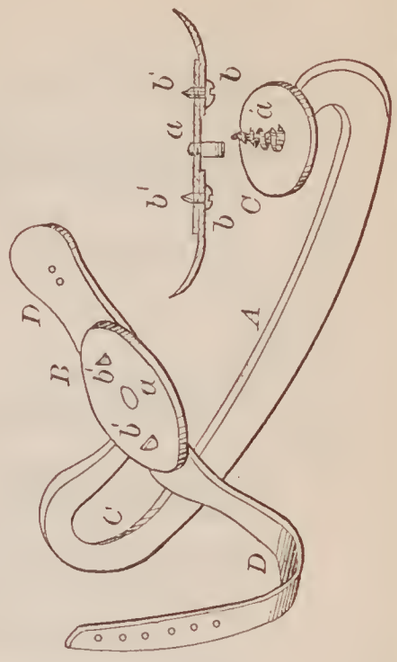
76321—M. Germann—*Gas Cooking Apparatus.*



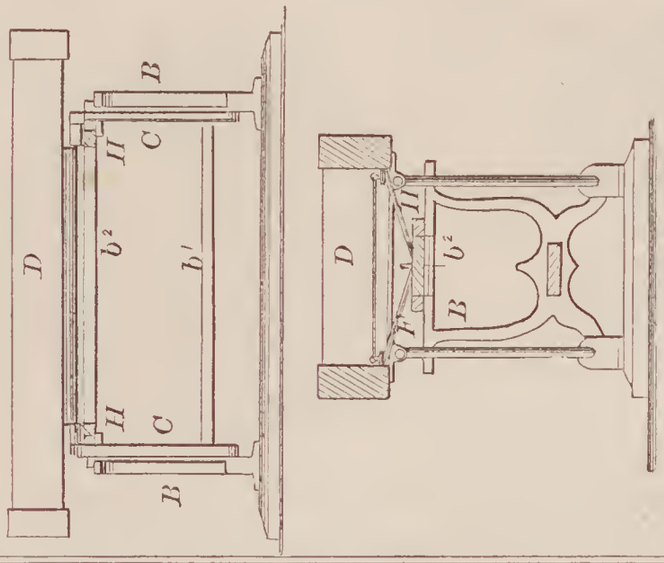
76322—J. W. Gray—*Steam Engine Governor*



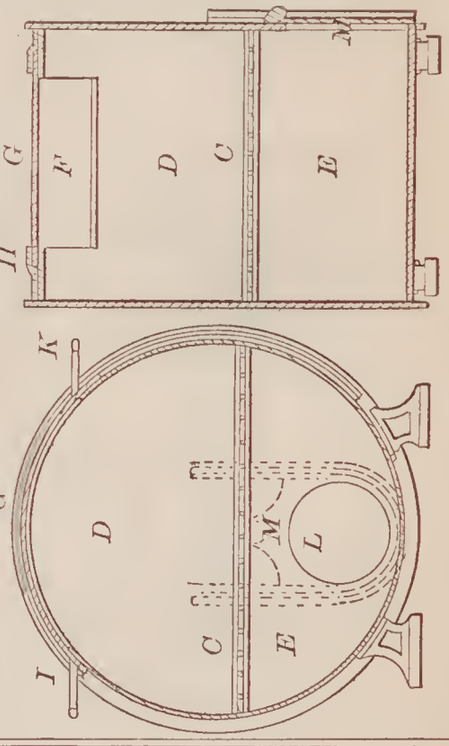
76324—M. C. Haight—*Skate*



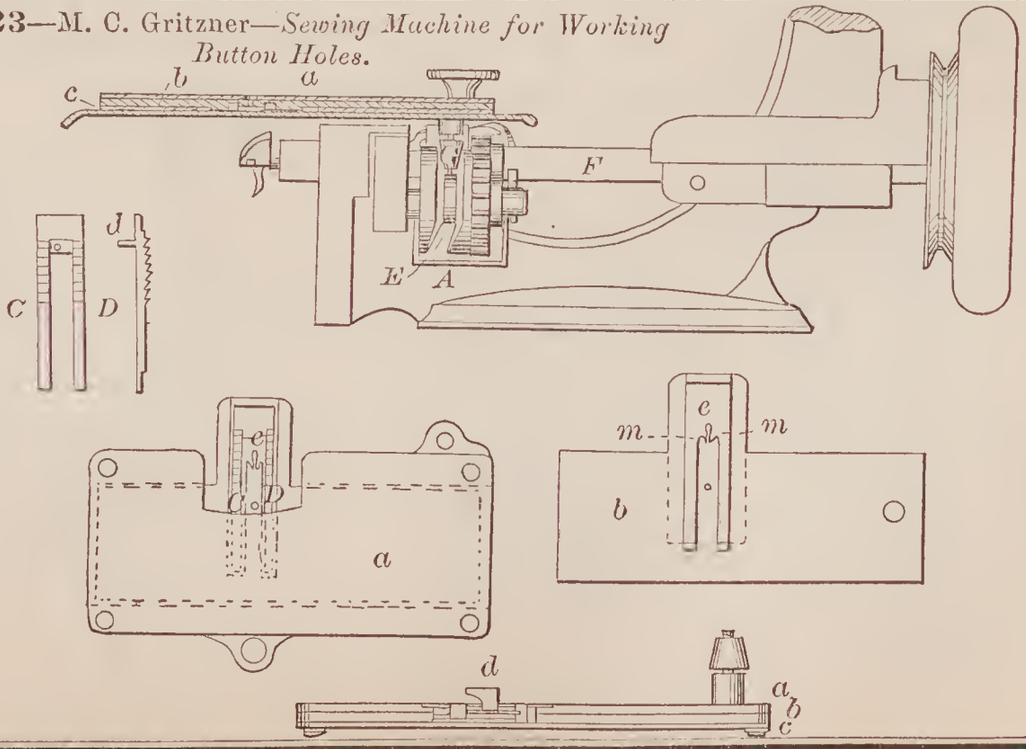
76325—S. B. Holden—*Car Seat.*



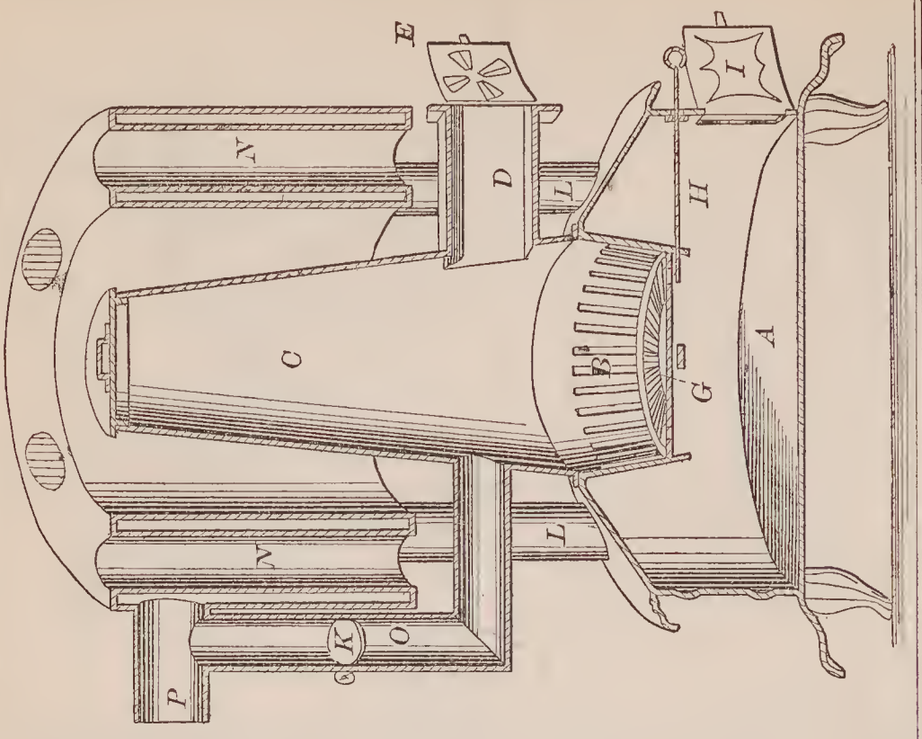
76327—S. S. Hughson—*Sifter.*



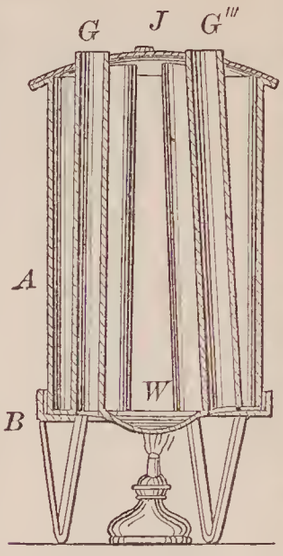
76323—M. C. Gritzner—*Sewing Machine for Working Button Holes.*



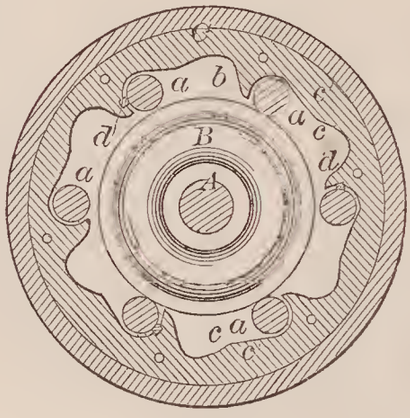
76326—R. Holmes—*Base Burning Stove.*



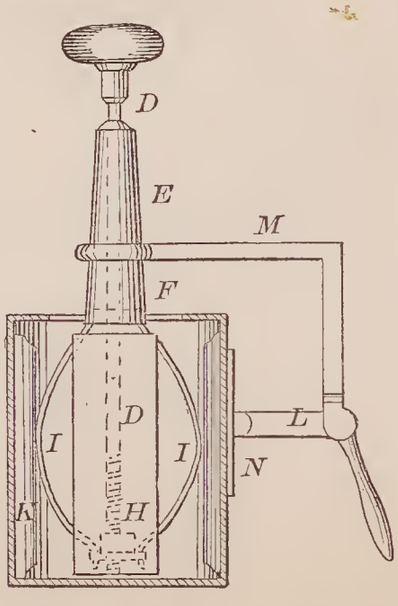
76329—J. Johnson—*Heating Apparatus.*



76328—Johnson & Birch—*Friction Clutch.*

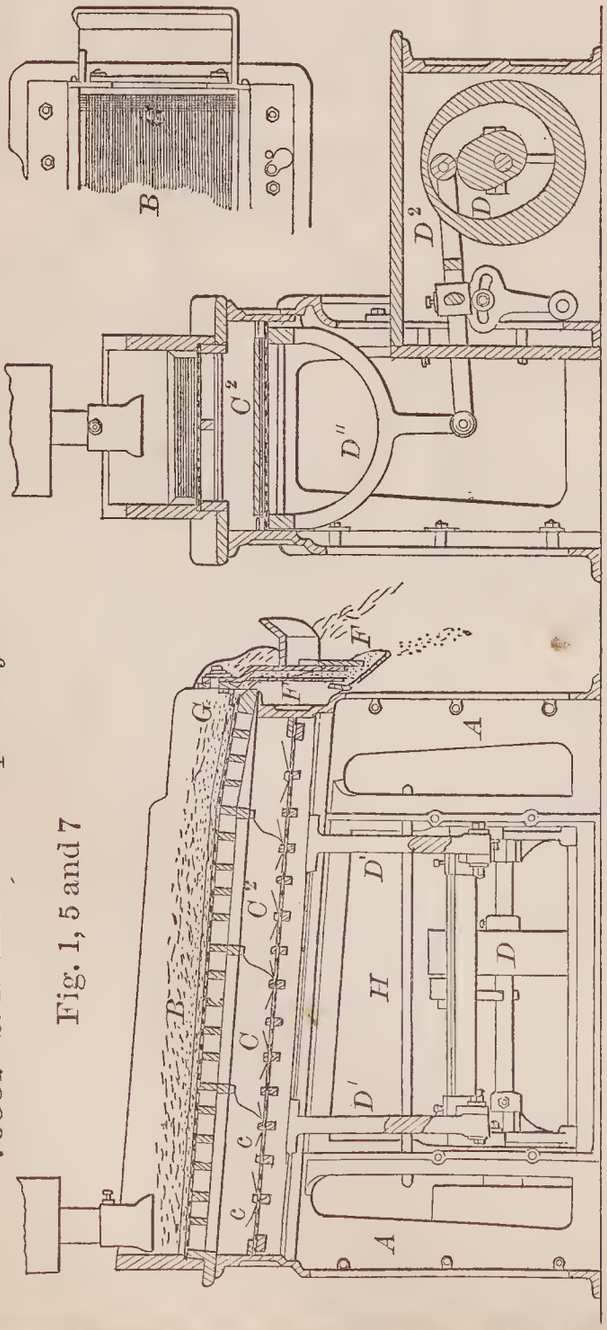


76330—Kerr & Kelly—*For Holding Cans while being Soldered.*

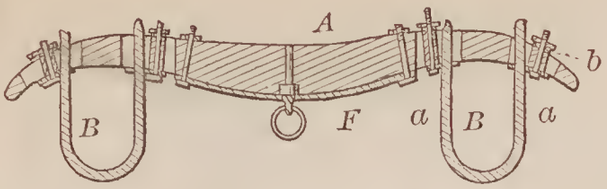


76331—S. R. Krom—*For Separating Ores.*

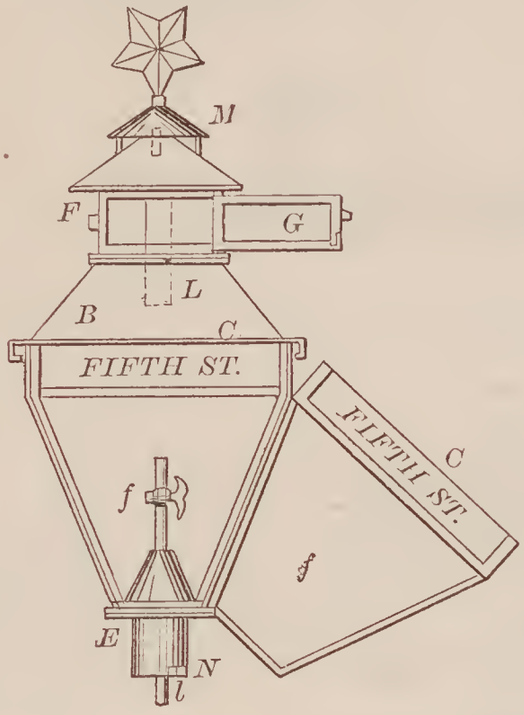
Fig. 1, 5 and 7



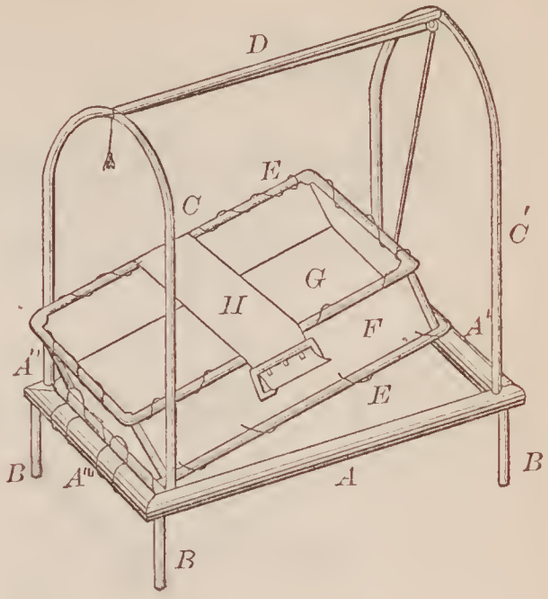
76332—I. W. Little—*Ox Yoke.*



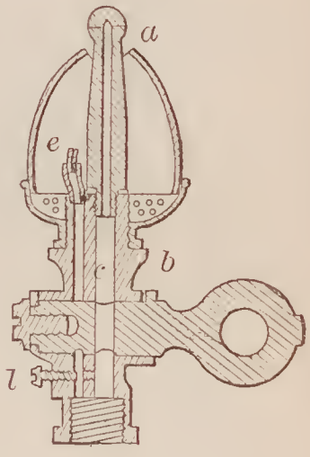
76335—T. T. Markland, Jr.—*Street Lamp.*



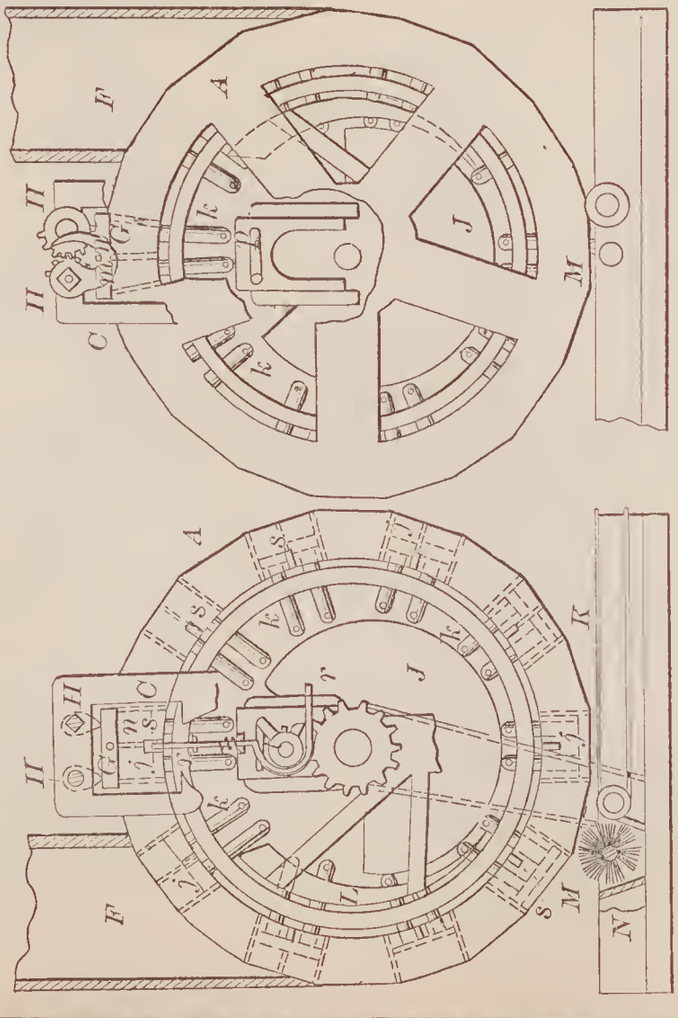
76336—M. E. J. Marr—*Child's Bed.*



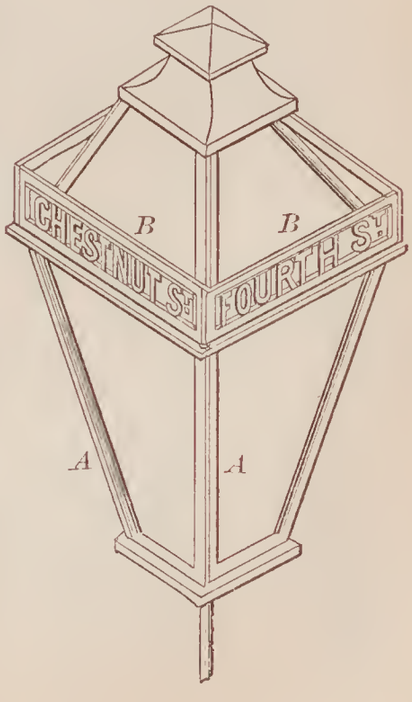
76333—R. B. Locke—*Gas Burner.*



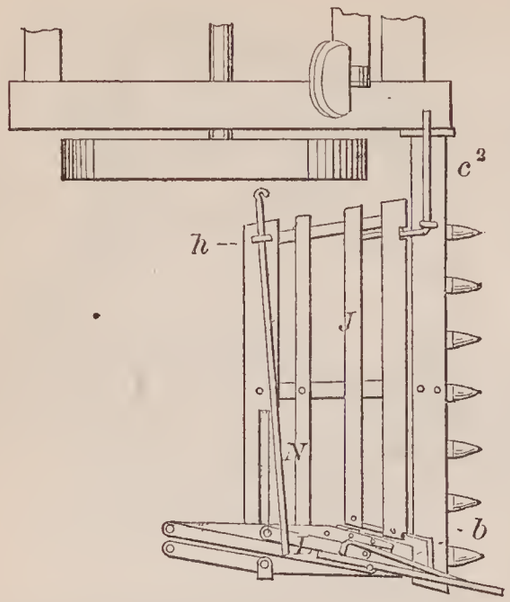
76337—I. Martin—*Brick Machine.*



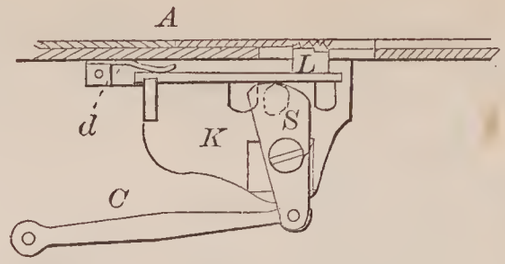
76334—T. T. Markland, Jr.—*Name Plate for Street Lamps.*

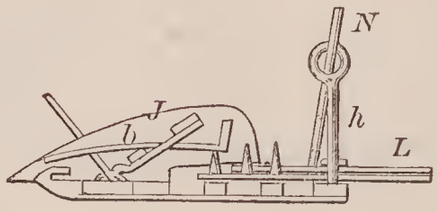


76339—D. Mendenhall—*Harvester Rake.*

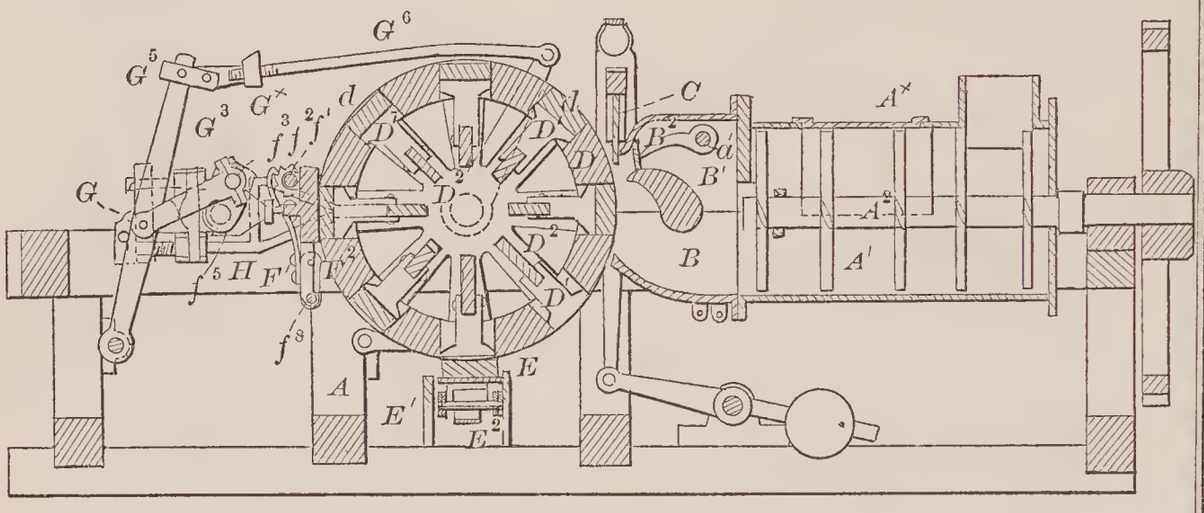


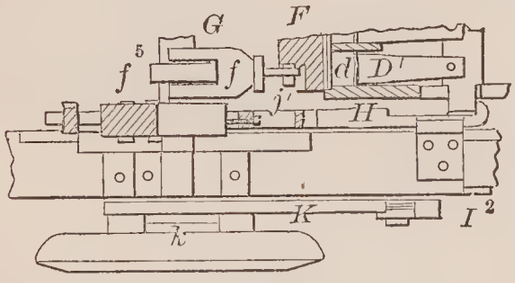
76340—J. A. Minor—*Sewing Machine.*

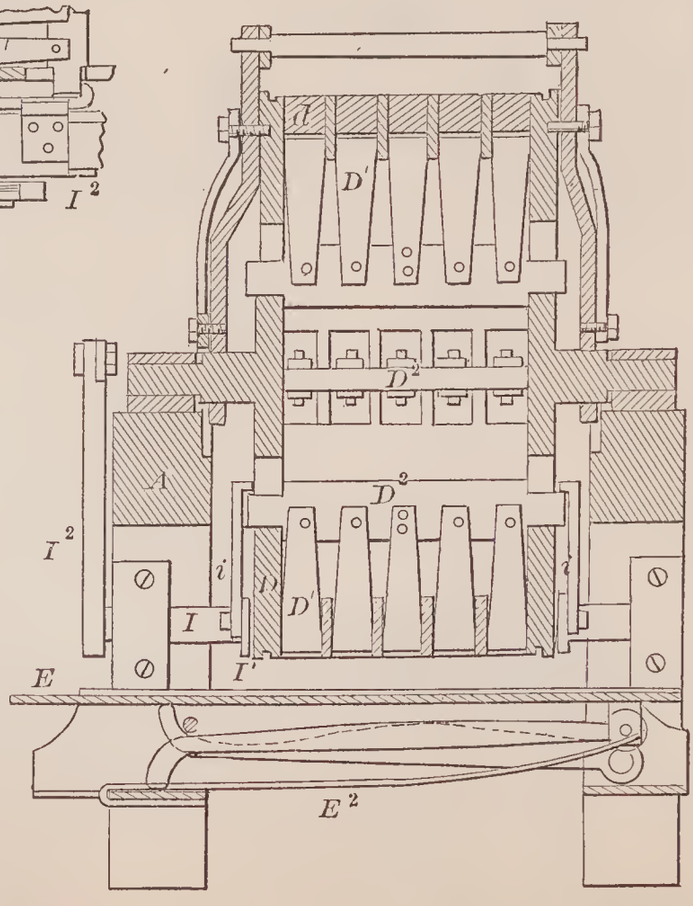




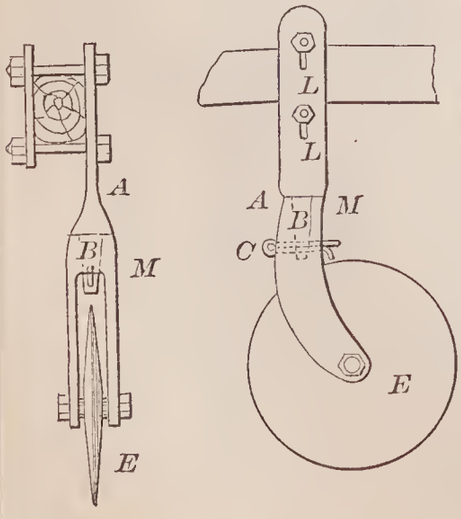
76341—J. W. Osgood—*Brick Machine.*



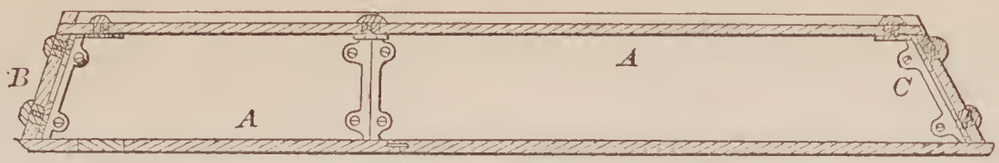




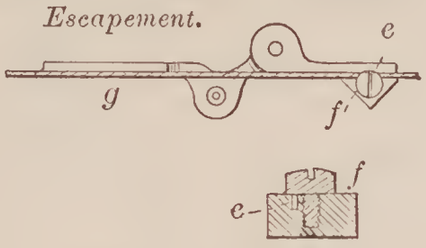
76343—J. C. Pfeil—*Rotary Cutter for Plows.*



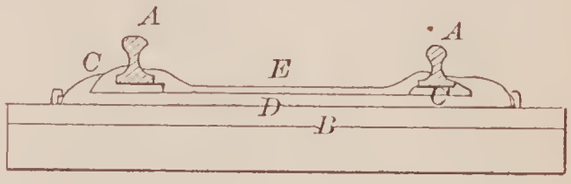
76344—Potter & Jones—*Coffin.*



76346—G. P. Read—*Chronometer Escapement.*

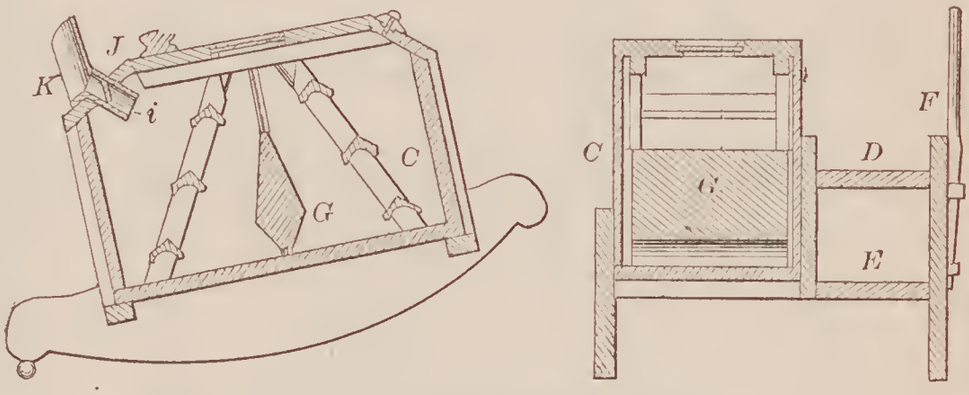


76348—E. Robbins—*Railway.*

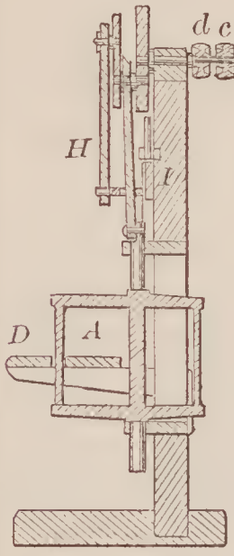


76347—Reeves & Solomon—*Button Hole for Paper Articles of Wearing Apparel.*

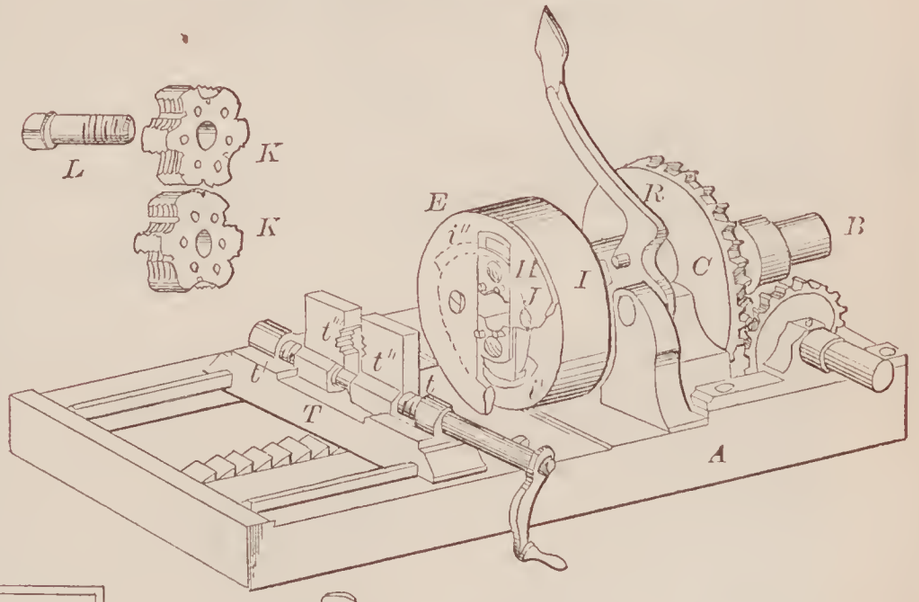
76350—T. Rose—*Churn.*

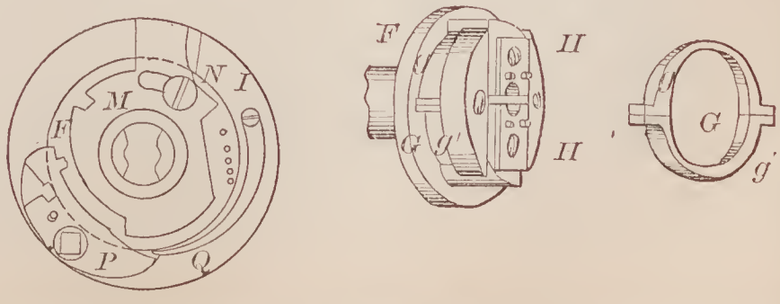


76349—E. Robbins—*Scroll Saw Mill.*

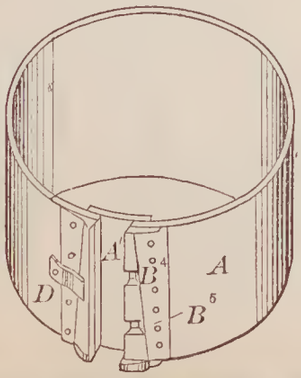


76351—E. Royon—*Screw Cutting Machine.*

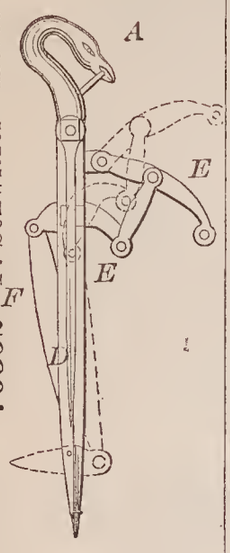




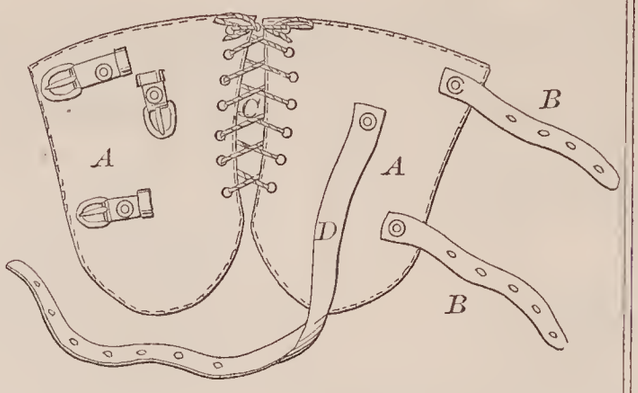
76345—S. Purdy—*Cheese Hoop.*



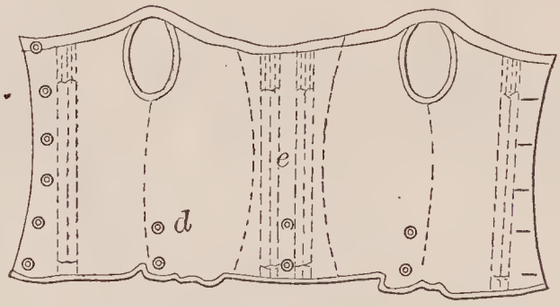
76352—P. Schwitzer—*Horse Hay Fork.*



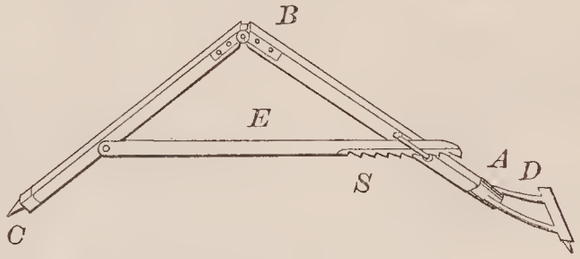
76353—S. B. Sherer—*Ankle Brace.*



76354—M. B Solomon—*Children's Corsets.*

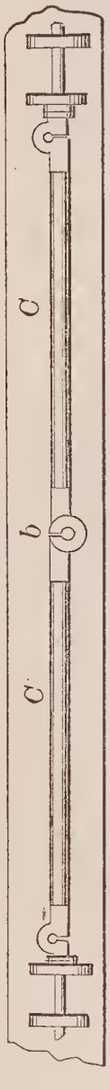


76355—L. B. Southworth—*Carpet Stretcher.*

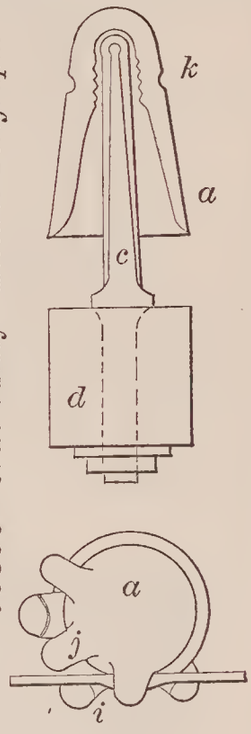


76356—J. A. Stansbury—*Hame Lock.*

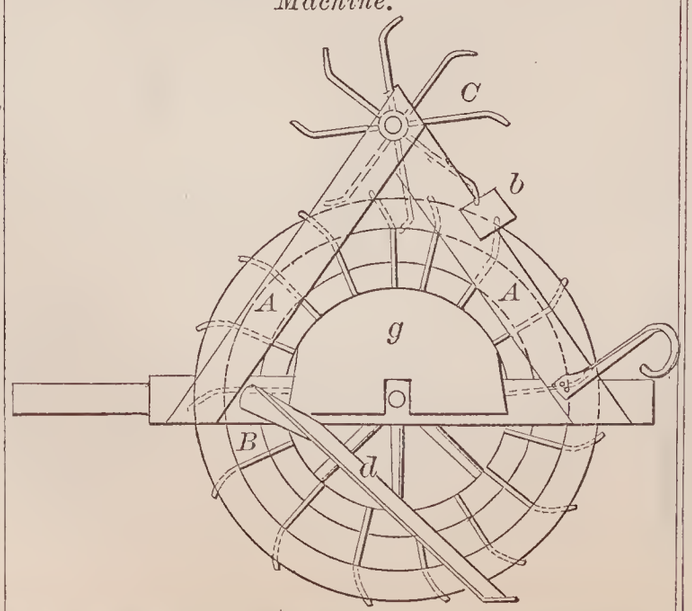
76357—S. Thompson—*Attaching Shafts to Vehicles.*



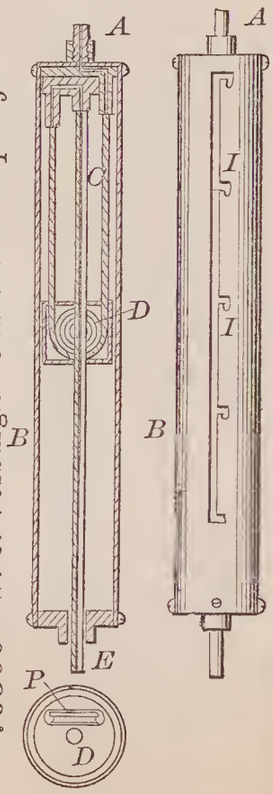
76358—C. F. Varley—*Electric Telegraph.*



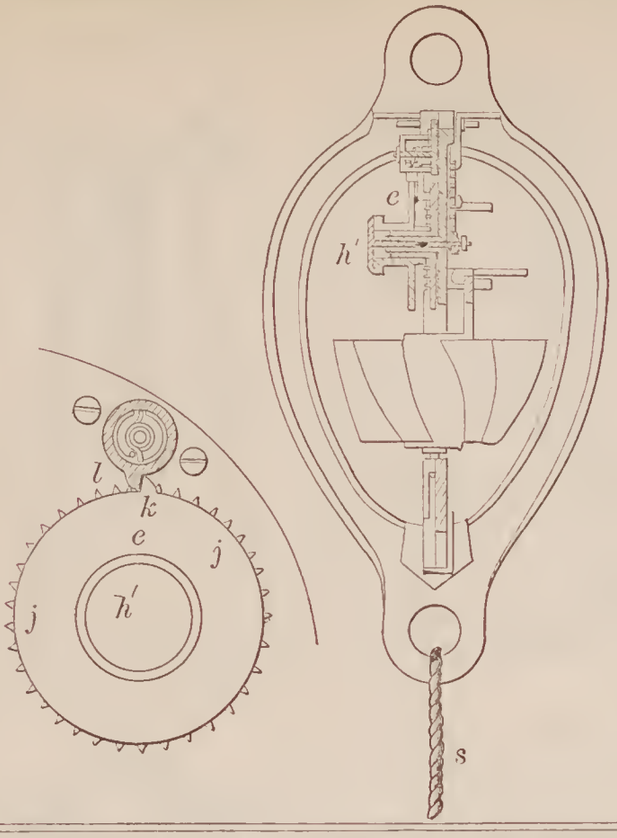
76359—Vaughn & Chamness—*Ditching Machine.*



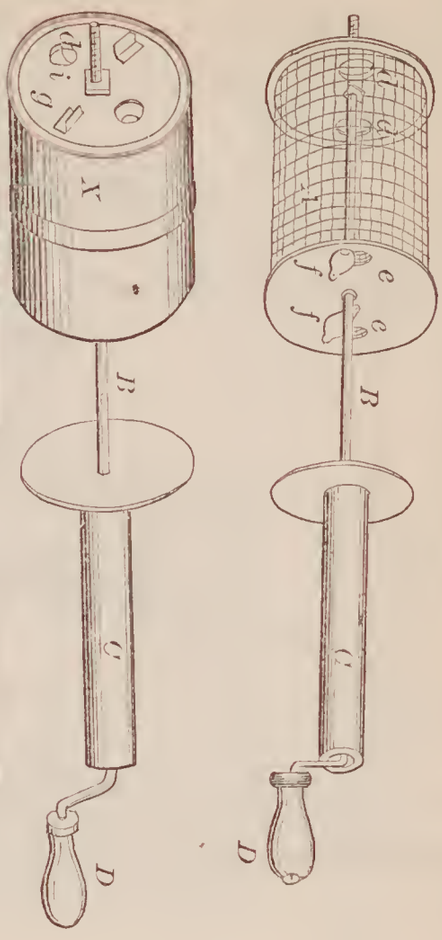
76360—W. C. Vosburgh—*Chandelier Drop Light.*



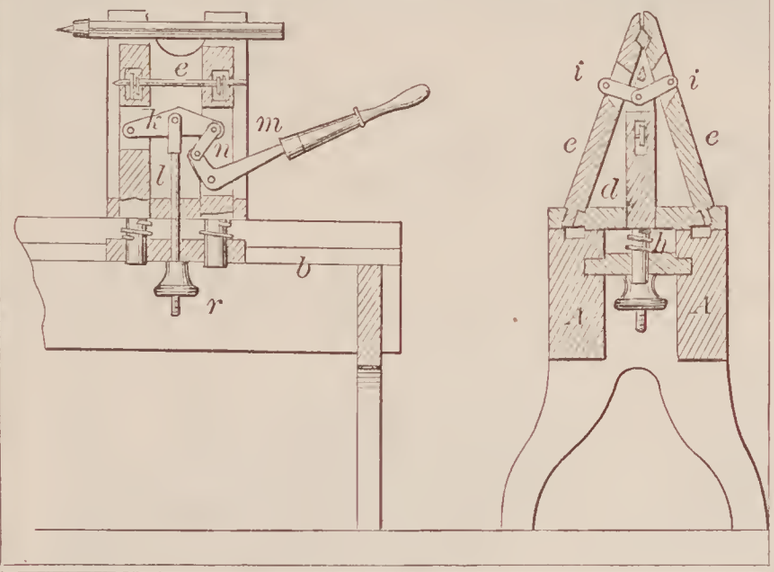
76361—T. & T. F. Walker—*For Taking Soundings.*



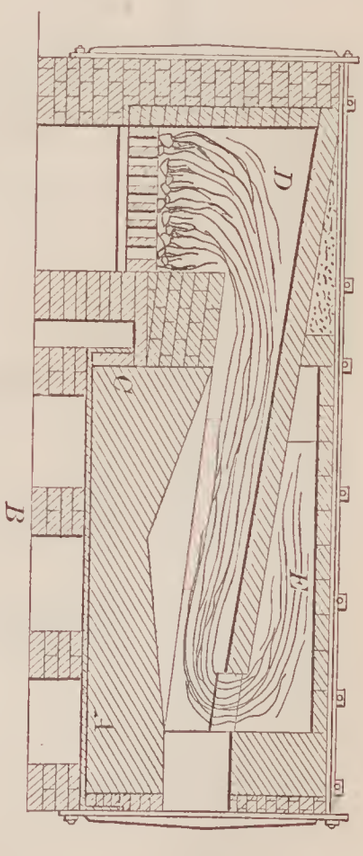
76362—L. A. Warner—*Popper and Roaster.*



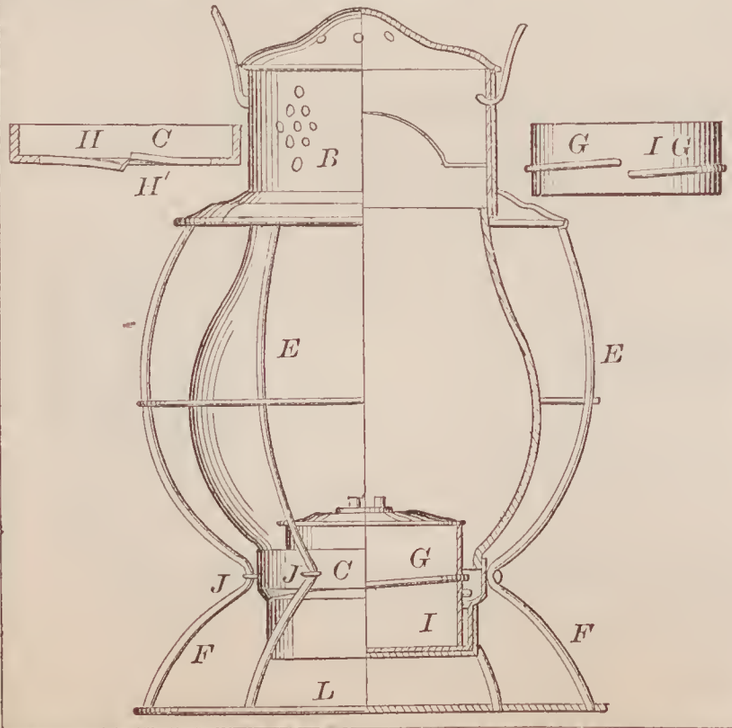
76363—W. J. Watson—*Wood Turning Lathe.*



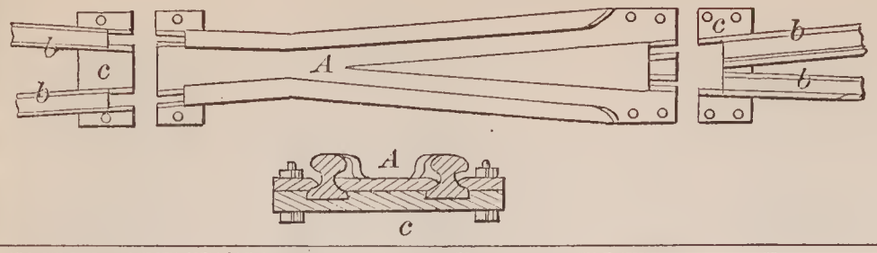
76364—D. P. Webster—*Furnace for Smelting Lead Ores.*



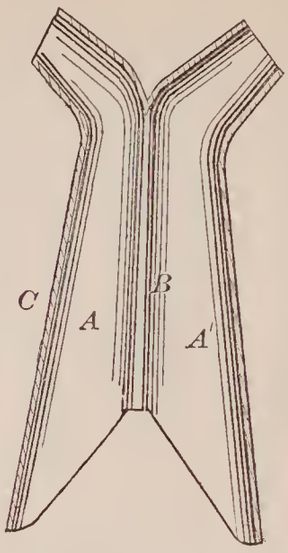
76366—W. Westlake—*Lantern.*



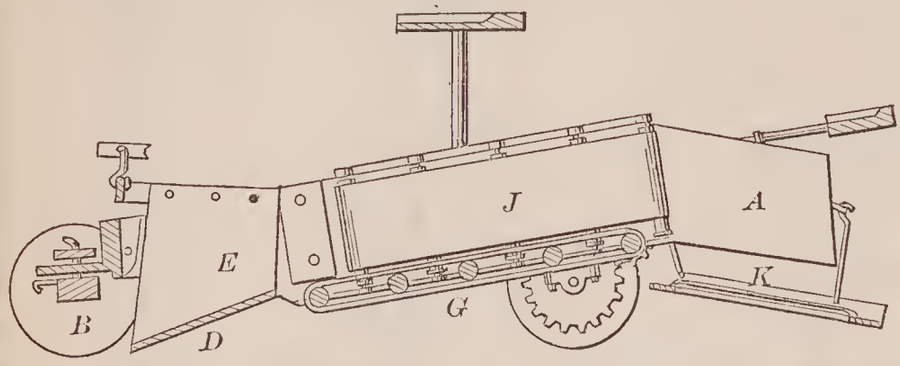
76365—G. Westinghouse, Jr.—*Railway Frog.*



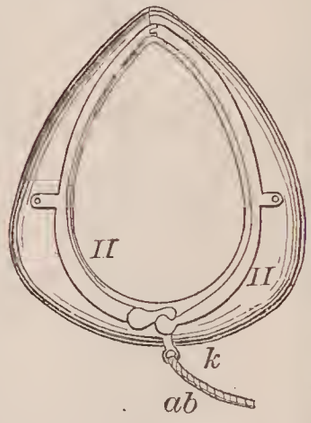
76367—W. Westlake—*Tea Pot Spout.*



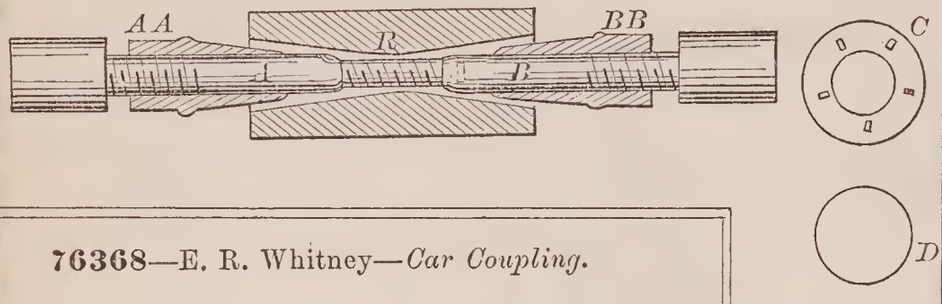
76371—B. P. Wright—*Potato Digger.*



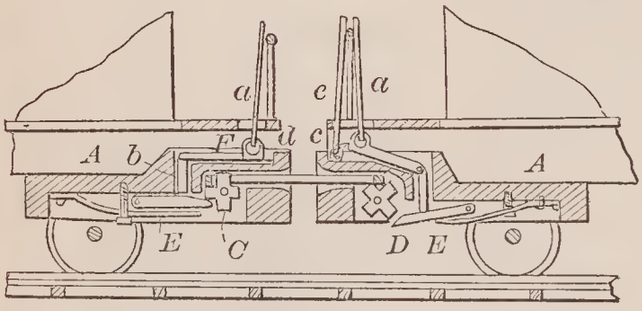
76369—W. S. Wood—*Harness.*



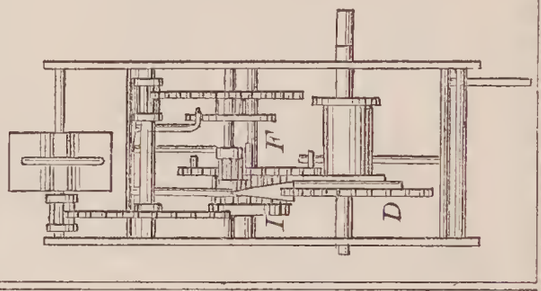
76372—D. L. Allen—*Expanding Mandrel.*



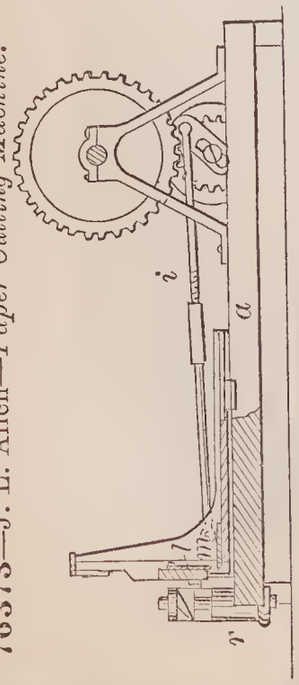
76368—E. R. Whitney—*Car Coupling.*



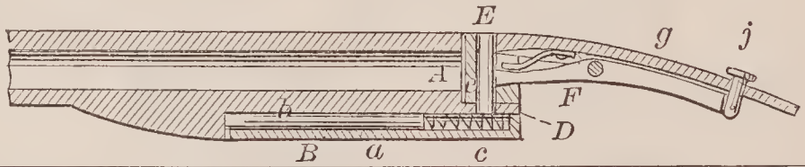
76370—R. Woolworth—*Clock.*



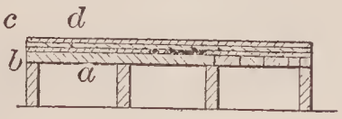
76373—J. L. Allen—*Paper Cutting Machine.*



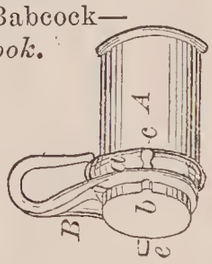
76374—C. H. Alsop—*Breech Loading Fire Arm.*



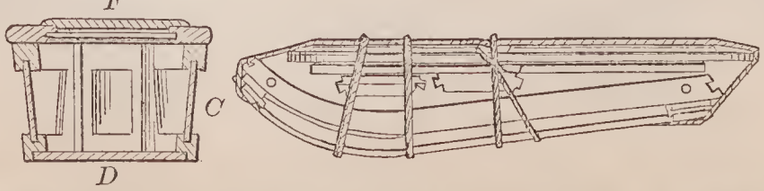
76375—E Atkinson—*Roof.*



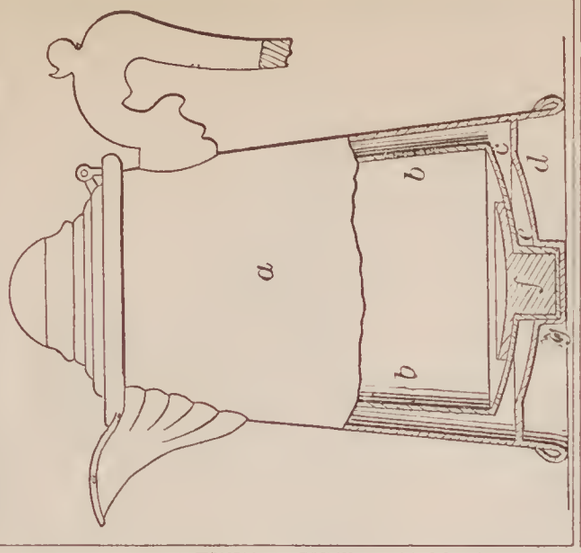
76375—C. A. Babcock—*Whiffletree Hook.*



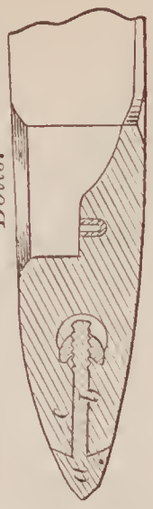
76376—Avery & Delill—*Coffin.*



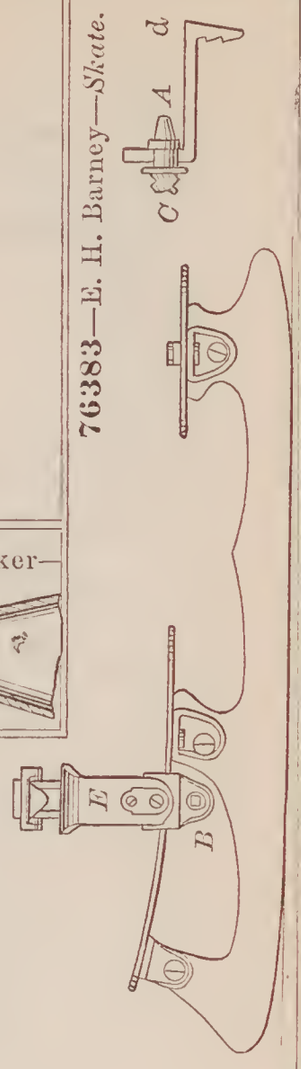
76378—J. B. Bailey—*Tee Pitcher.*



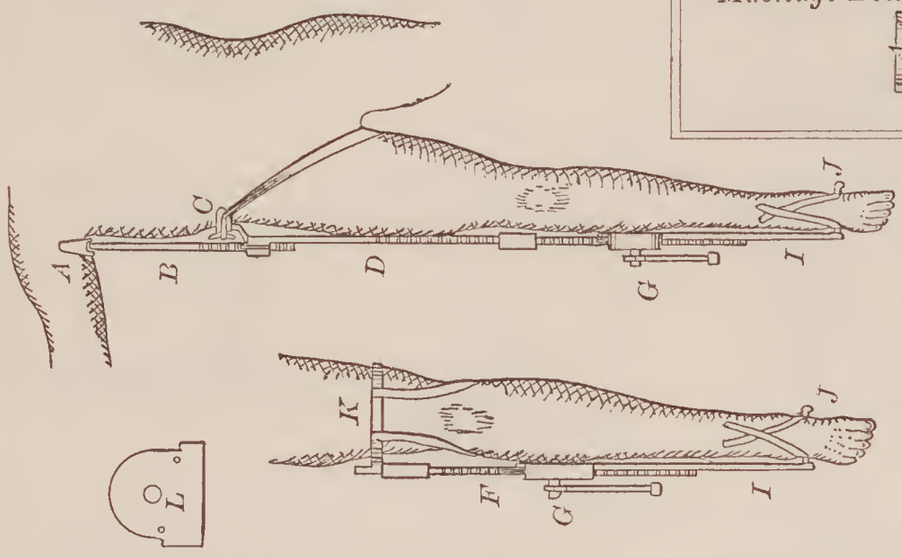
76380—J. Baldwin—*Nut for Joint Bolts.*



76383—E. H. Barney—*Skate.*

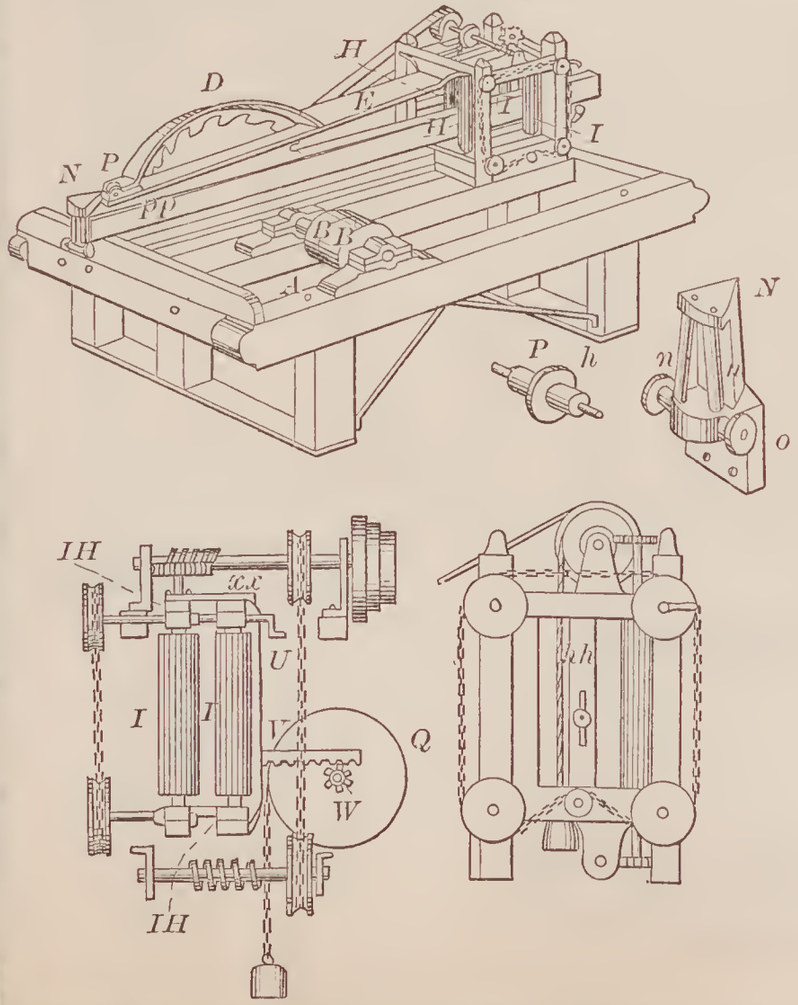


76382—E. H. Barnes—*For Treating Fractures.*

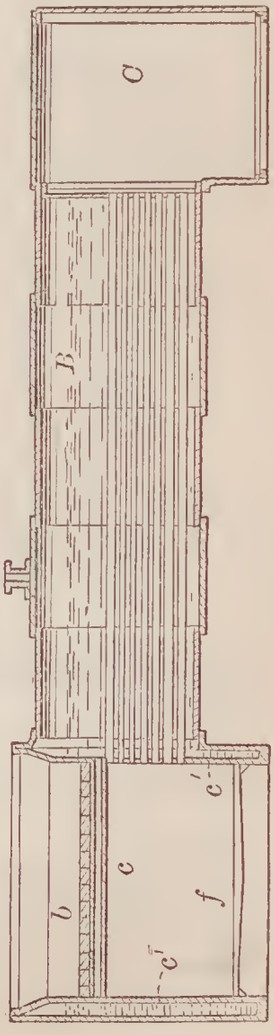


76379—H. O. Baker—*Mucilage Bottle.*

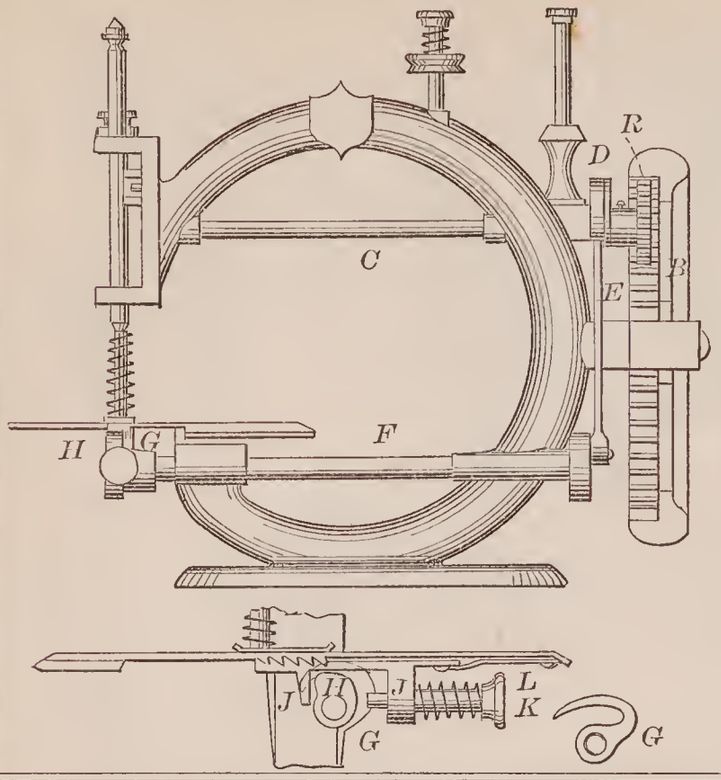
76384—D. B. Bartholomew—*Saw Mill.*



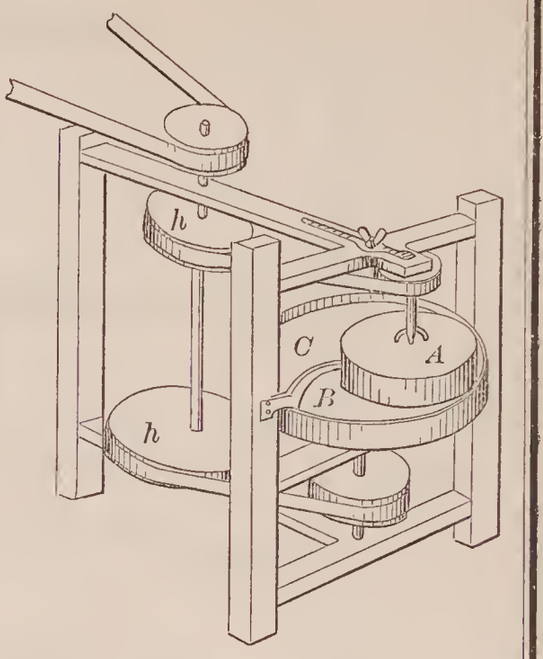
76381—W. Ball—*Steam Generator.*



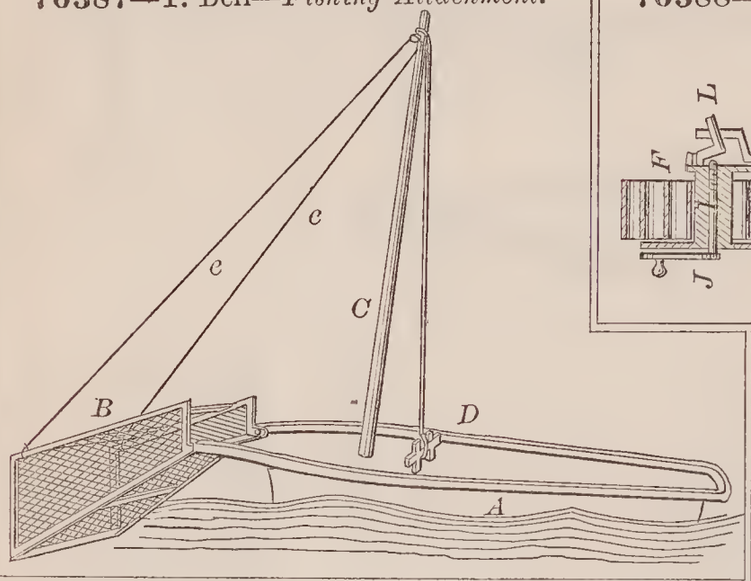
76385—J. W. Bartlett—*Sewing Machine.*



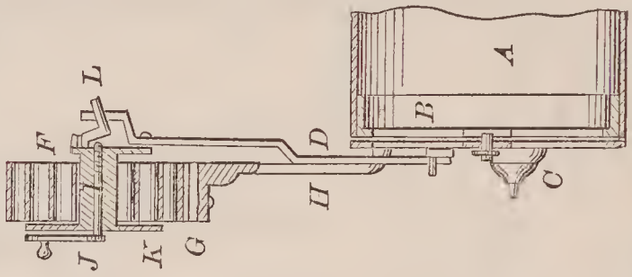
76386—C. Belcher—*Paint Mill.*



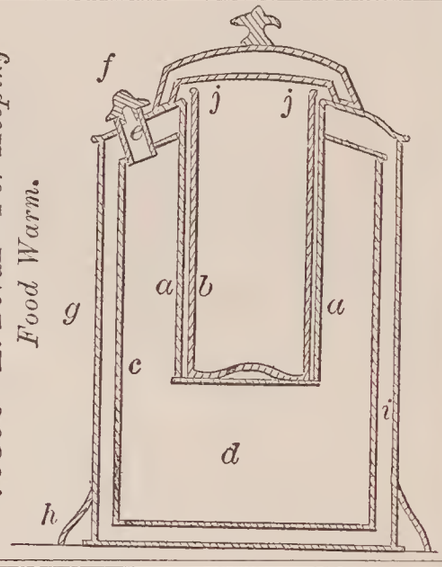
76387—T. Bell—*Fishing Attachment.*



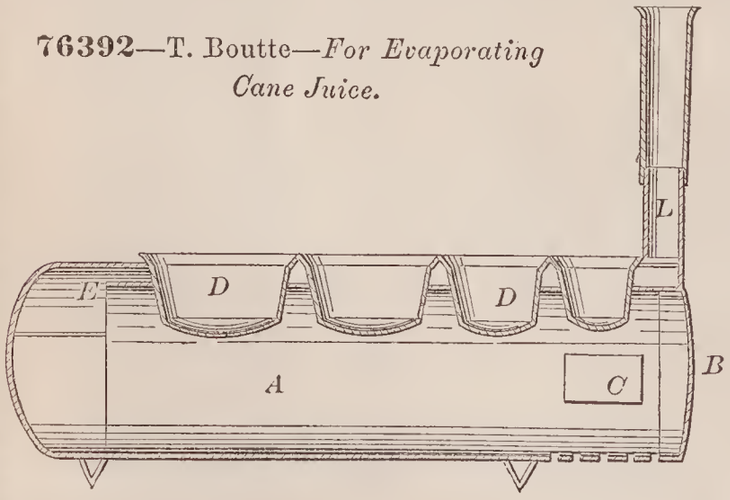
76388—Bender & Teller—*Thermostat.*



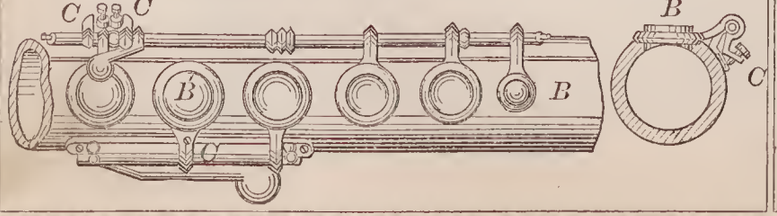
76390—E. Bevan—*For Keeping Food Warm.*



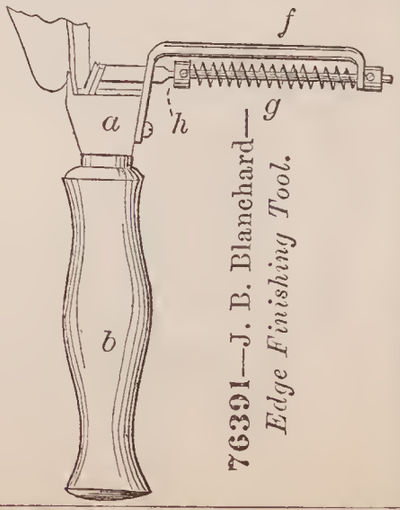
76392—T. Boutte—*For Evaporating Cane Juice.*



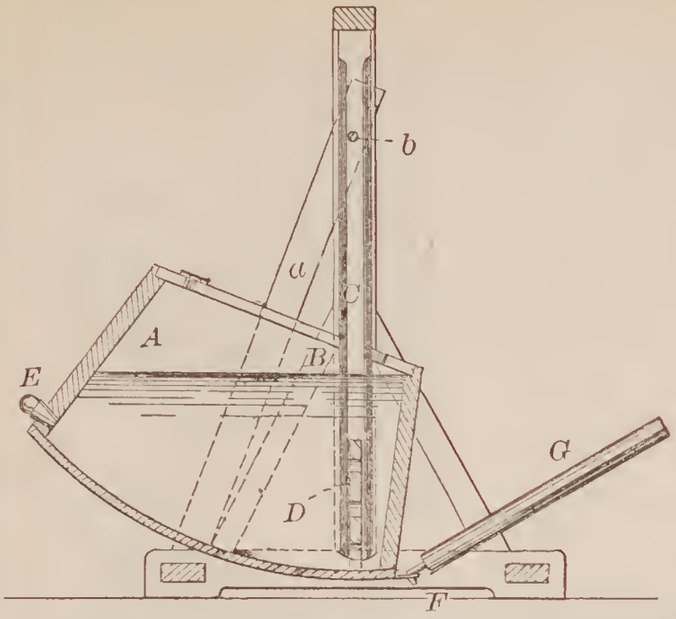
76389—T. Berteling—*Flute.*



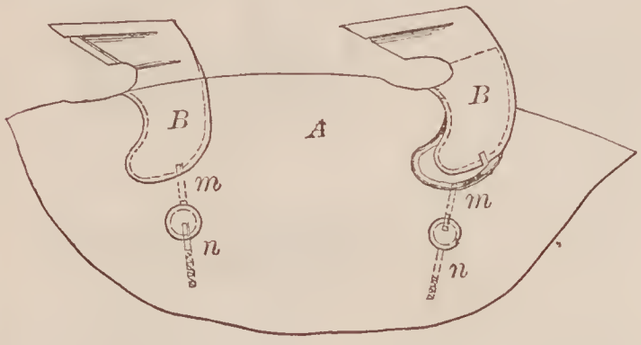
76391—J. B. Blanchard—*Edge Finishing Tool.*



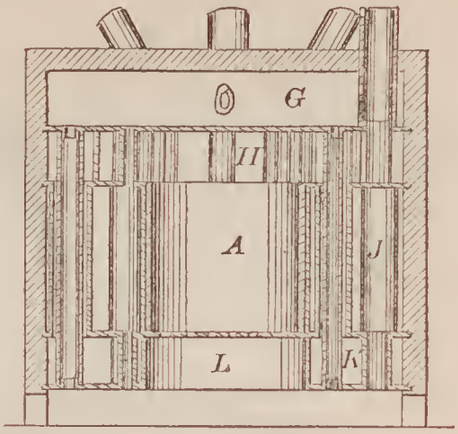
76393—E. Y. Boyce—*Washing Machine.*

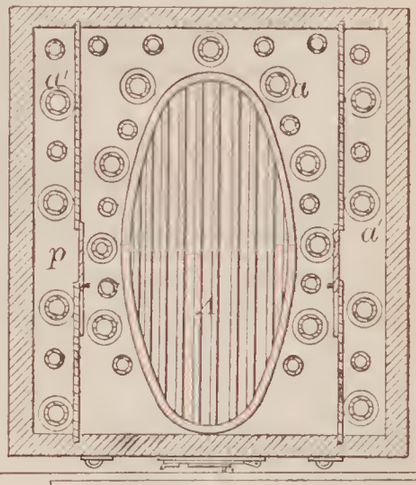


76395—I. S. & C. N. Brown—*Saw.*

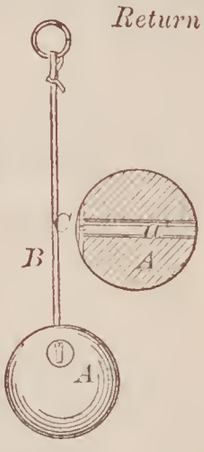


76397—H. G. Burr—*Hot Air Furnace.*

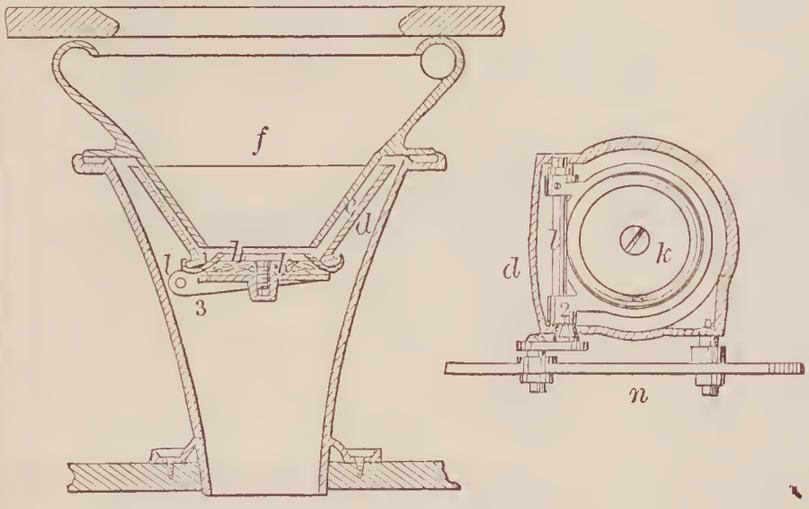


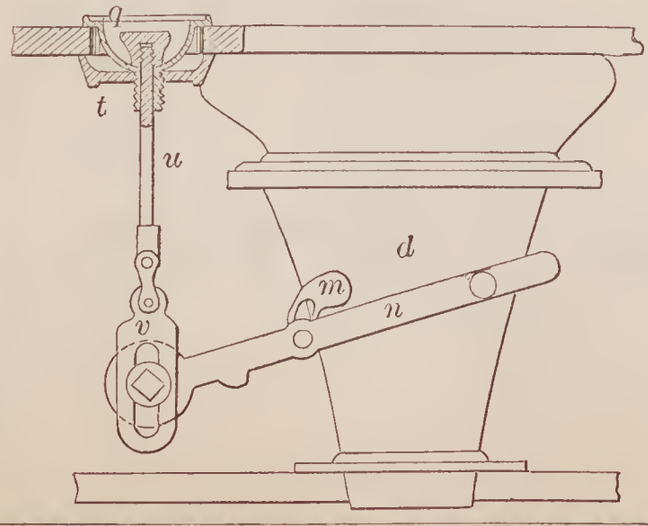


76396—J. Burke—*Musical Return Ball.*

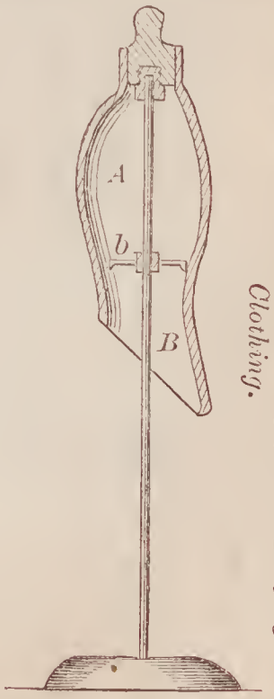


76398—W. S. Carr—*Water Closet.*

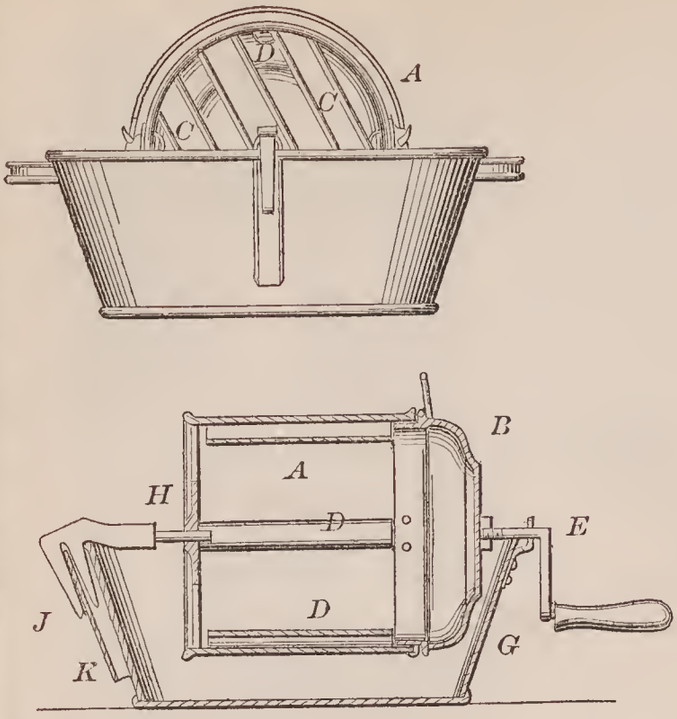




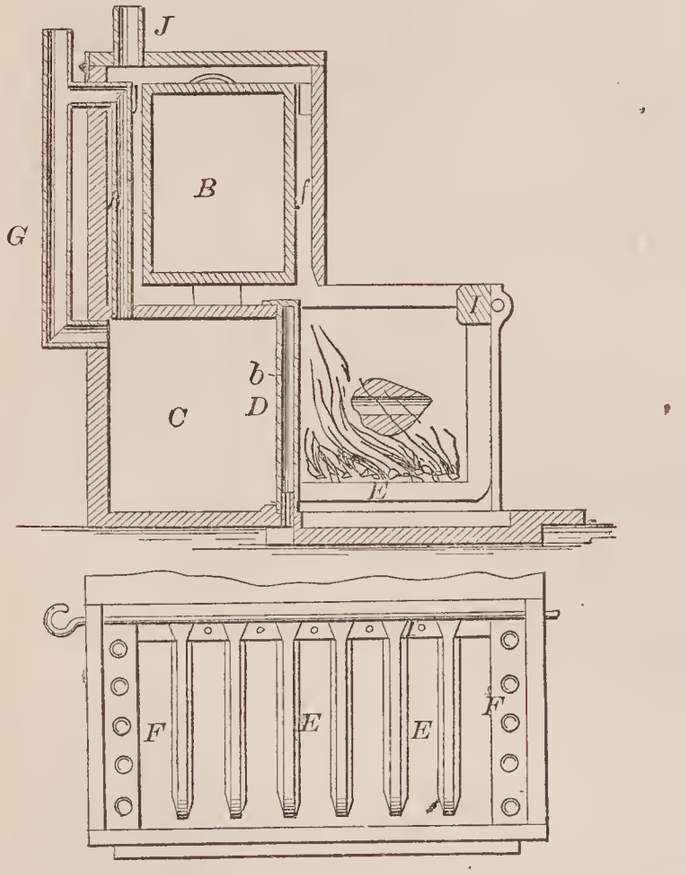
76394—W. E. Brock—*Dummy for Displaying Clothing.*



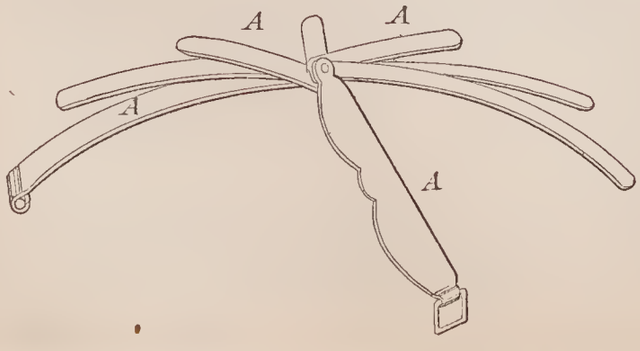
76399—J. M. Chaplin—*Potato Washer and Pan.*



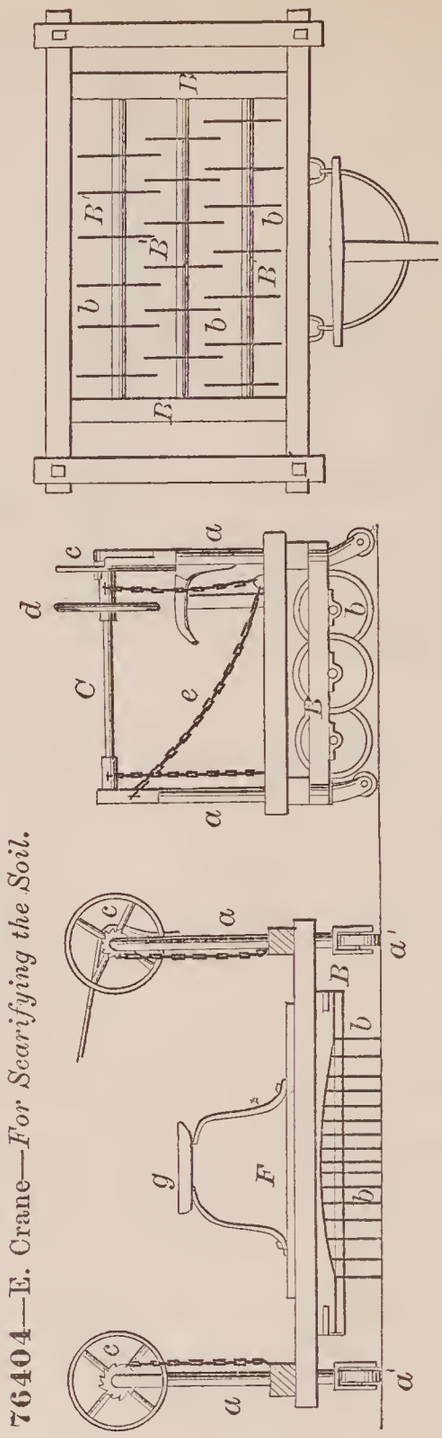
76400—Collins & Knox—*Stove.*



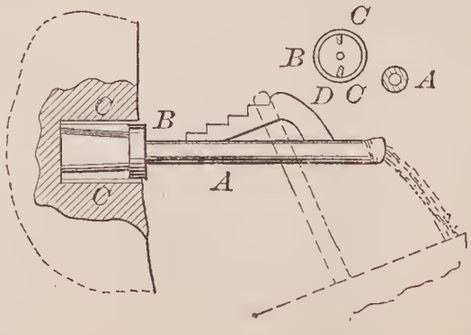
76401—S. F. Conant—*Hair Crimper.*



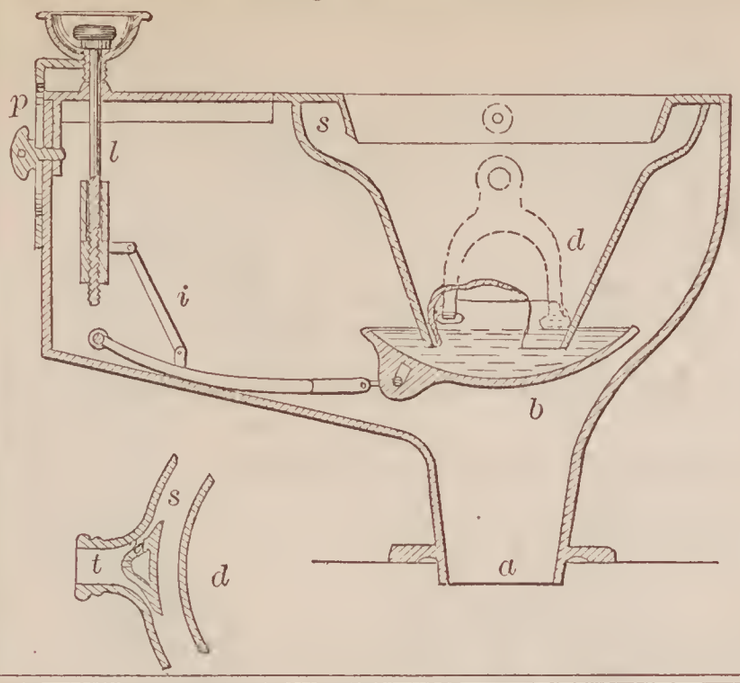
76404—E. Crane—*For Scarifying the Soil.*



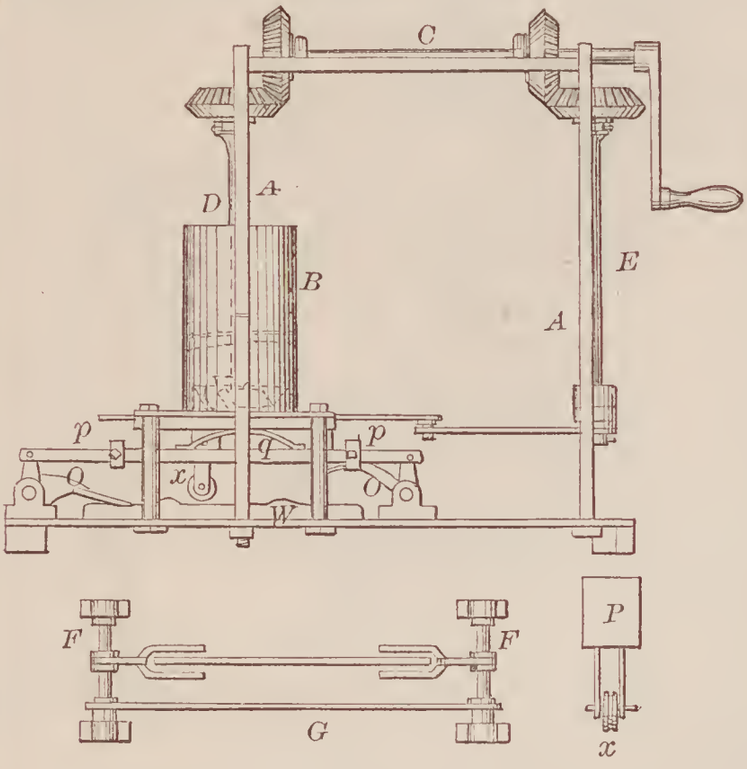
76402—W. Conner—*Sap Spile.*



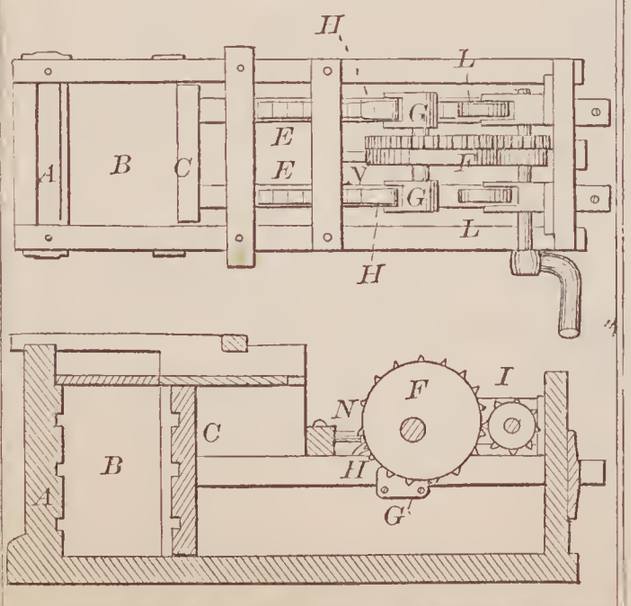
76403—H. H. Craigie—*Water Closet.*



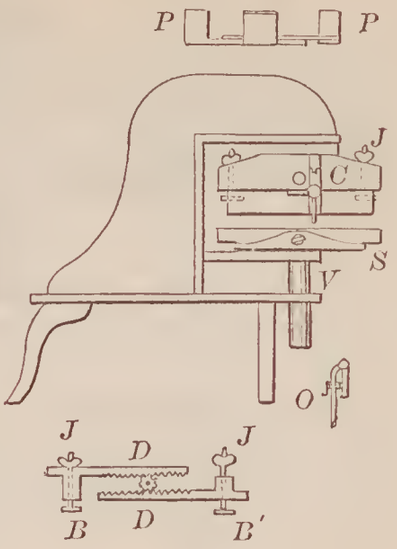
76405—Crighton & Roesler—*Brick Machine.*



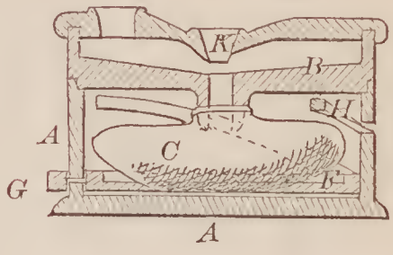
76407—D. Cummings, Jr.—*Baling Press.*



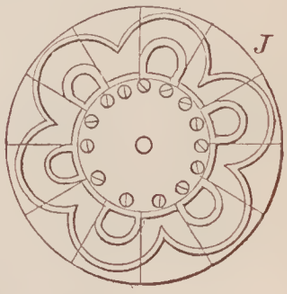
76408—T. A. Curtis—*Sole Cutting Machine.*

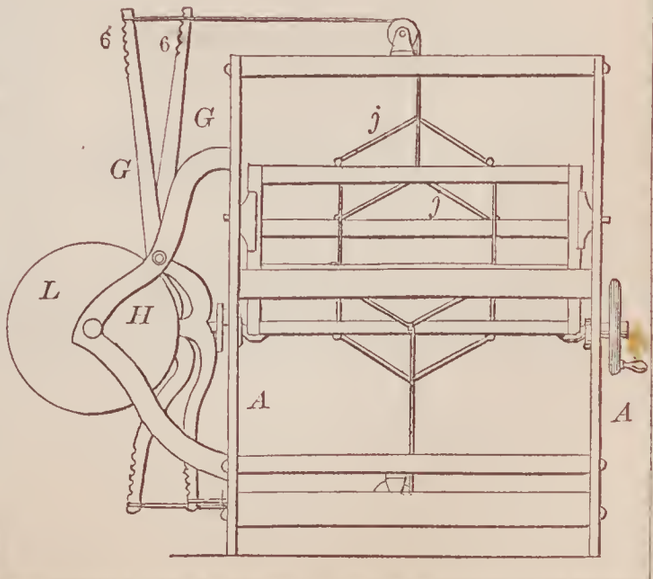


76409—S. Darling—*Inkstand.*

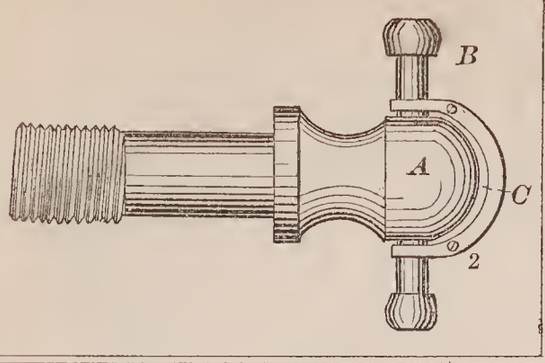


76406—G. Crompton—*Harness Mechanism for Looms.*

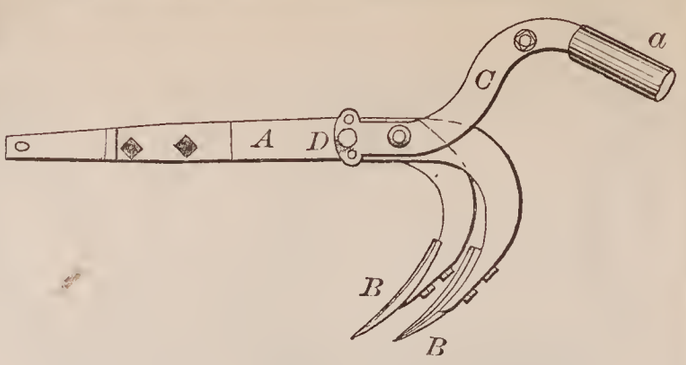




76410—S. Darling—*Vise.*

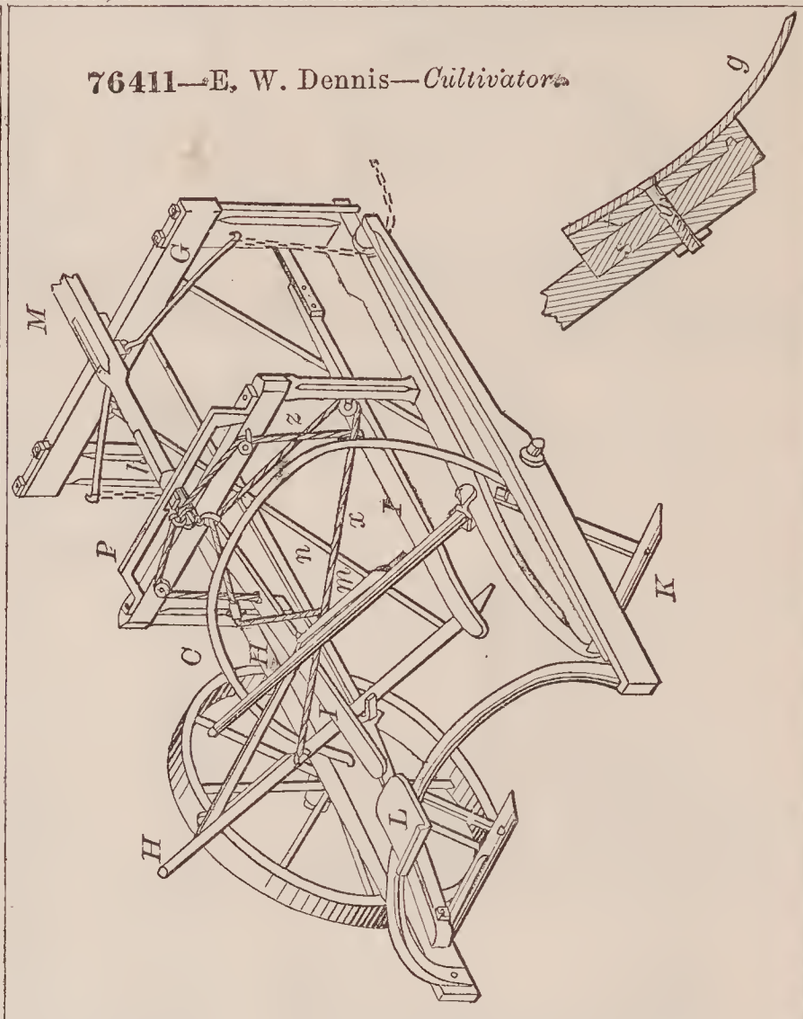


76412—G. W. Deweese—*Cultivator.*

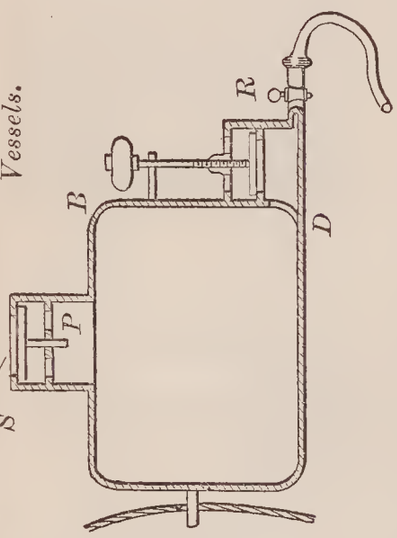


76414—J. S. Dickinson—*Comb.*

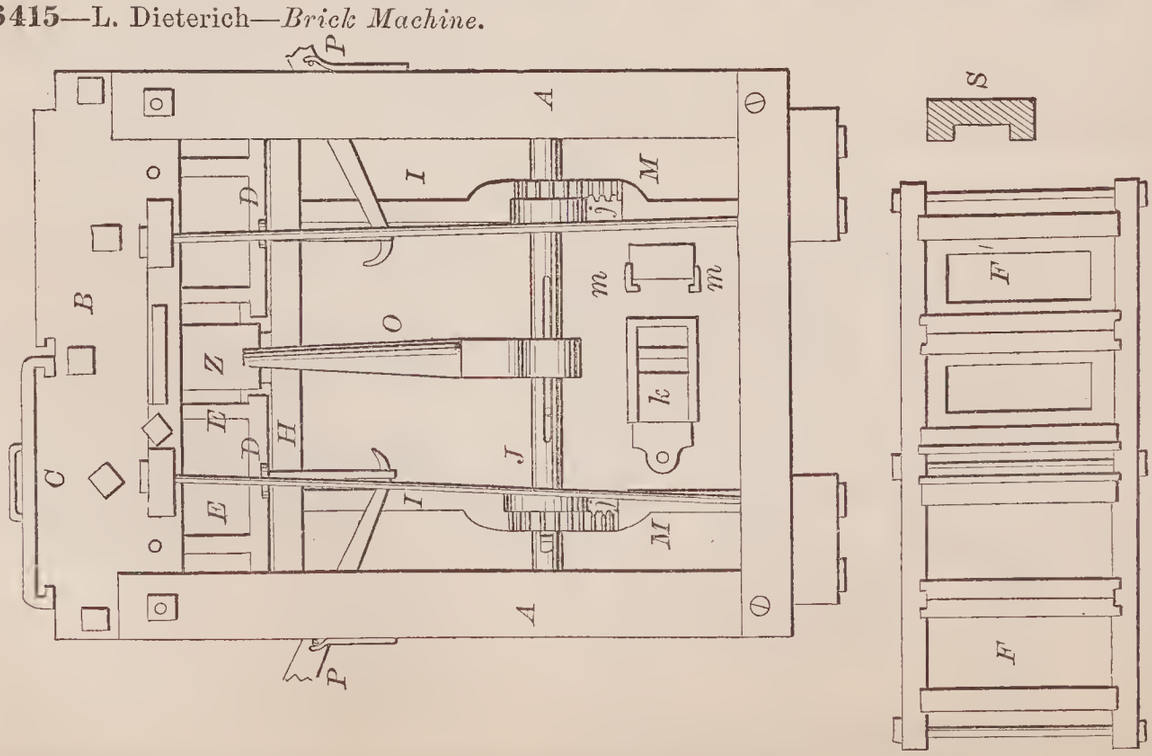
76411—E. W. Dennis—*Cultivator.*



76416—A. Dillon—*For Raising Sunken Vessels.*

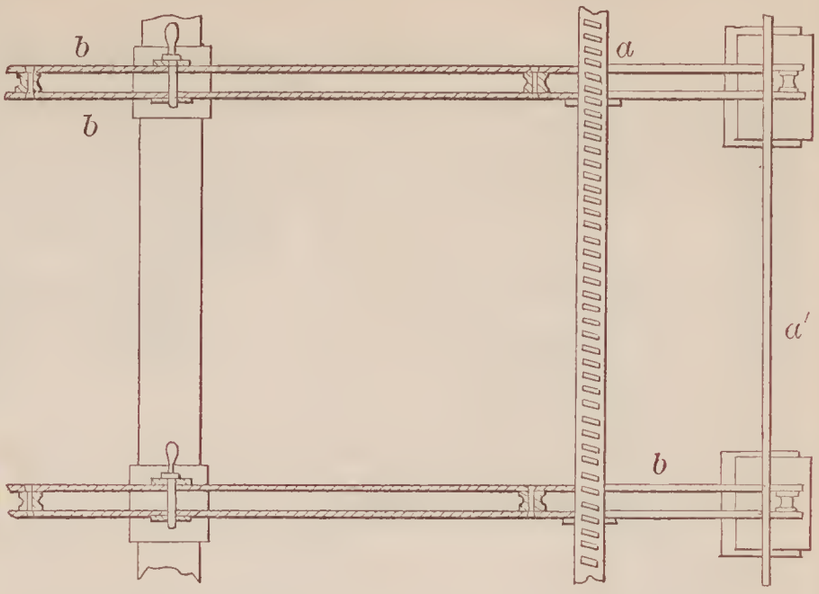


76415—L. Dieterich—*Brick Machine.*

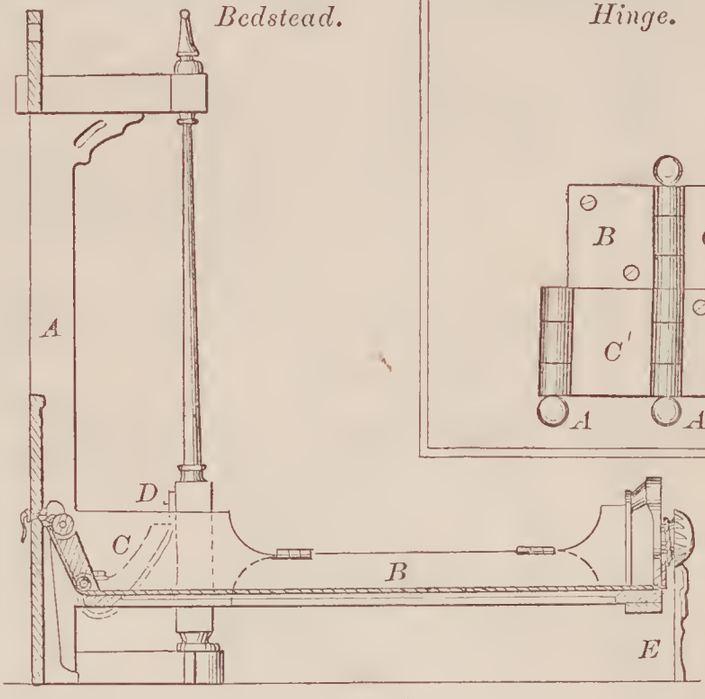


76417—G. E. Donisthorpe—*Coal Mining Machine.*

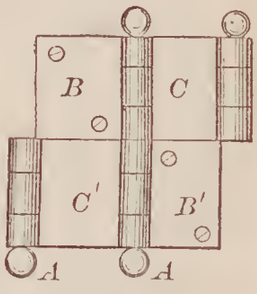
76418—G. E. Donisthorpe—*Coal Mining Machine.*



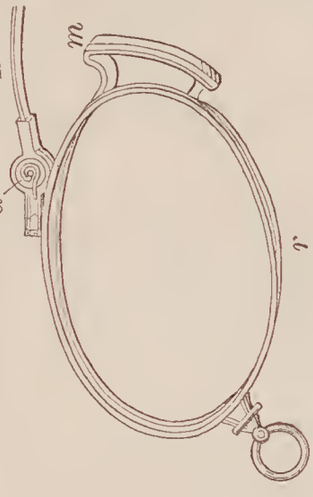
76423—W. H. Dutton—*Bedstead.*



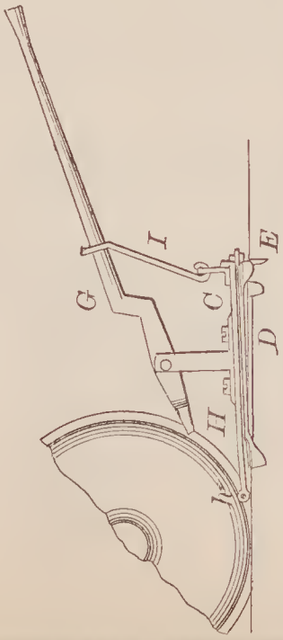
76422—G. Dumbolton—*Hinge.*



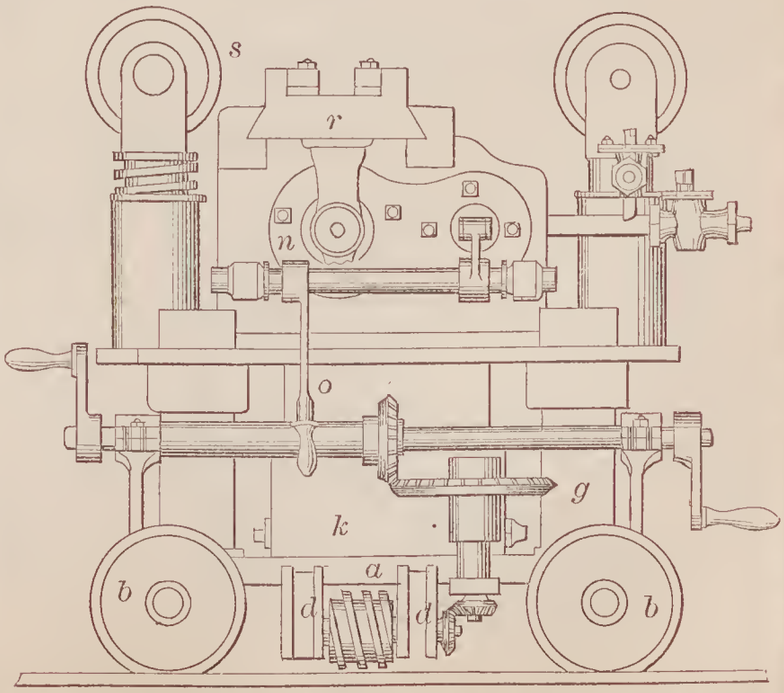
76420—J. Dorn—*Eye Glass Attachment.*



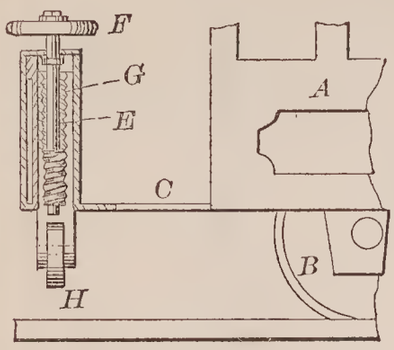
76421—J. Douglass—*For Moving Cars.*



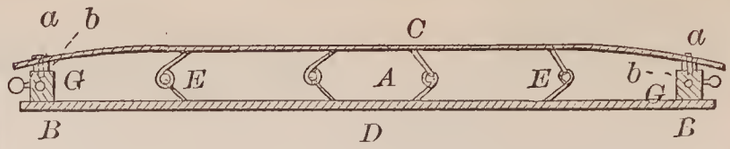
76419—G. E. Donisthorpe—*Coal Mining Machine.*



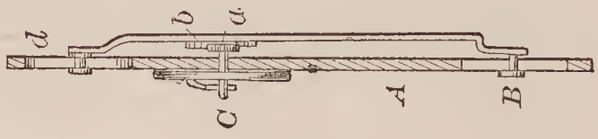
76424—D. Edwards—*Car Replacer.*



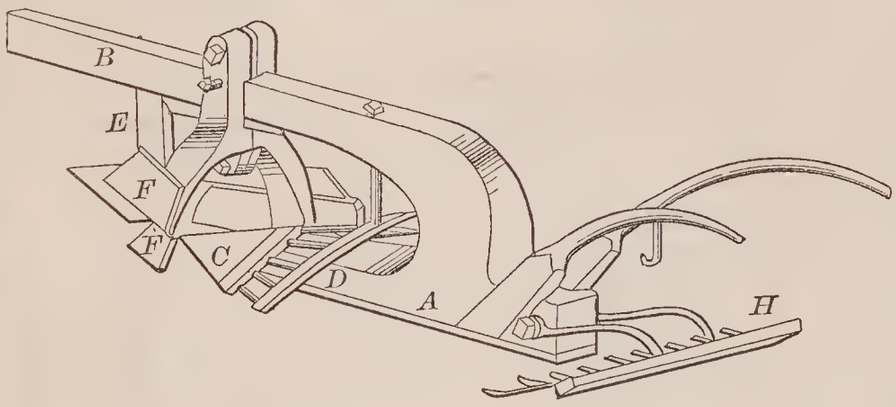
76425—English & Fraps—*Spring Bed Bottom.*



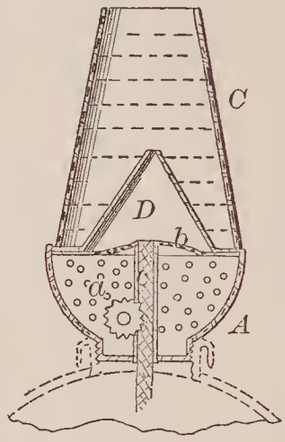
76429—M. M. Follett—*For Converting Motion.*



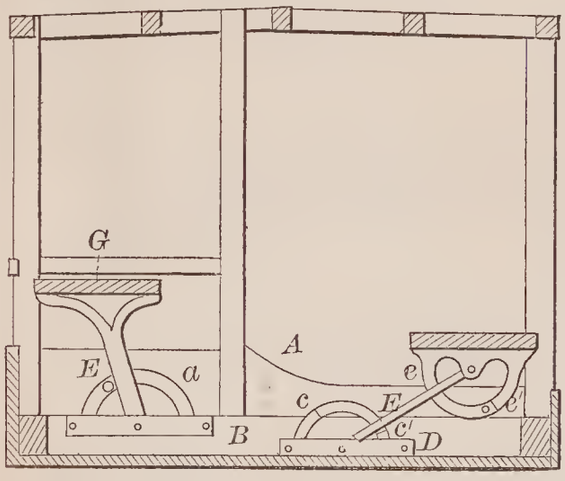
76427—L. Finch—*Potato Digger.*



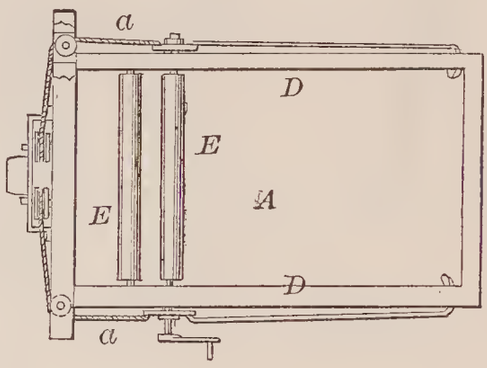
76426—L. Erving—*Lamp Burner.*



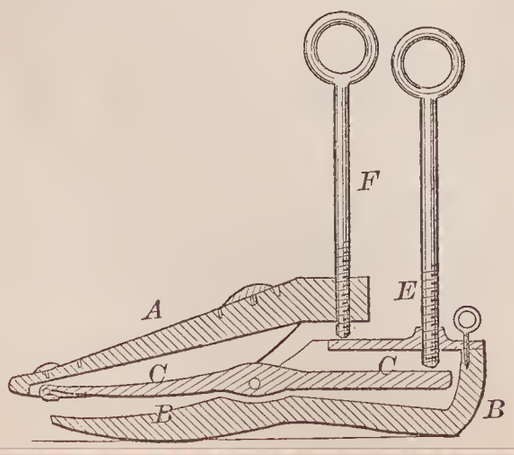
76428—J. Fleming—*Carriage Seat.*



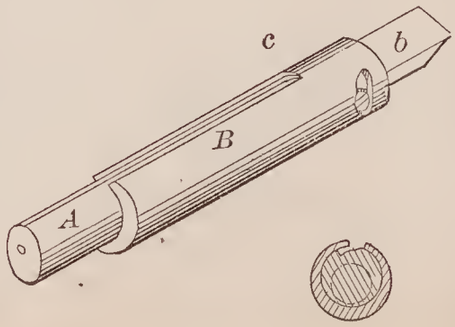
76430—M. M. Follett—*Mop Wringer.*



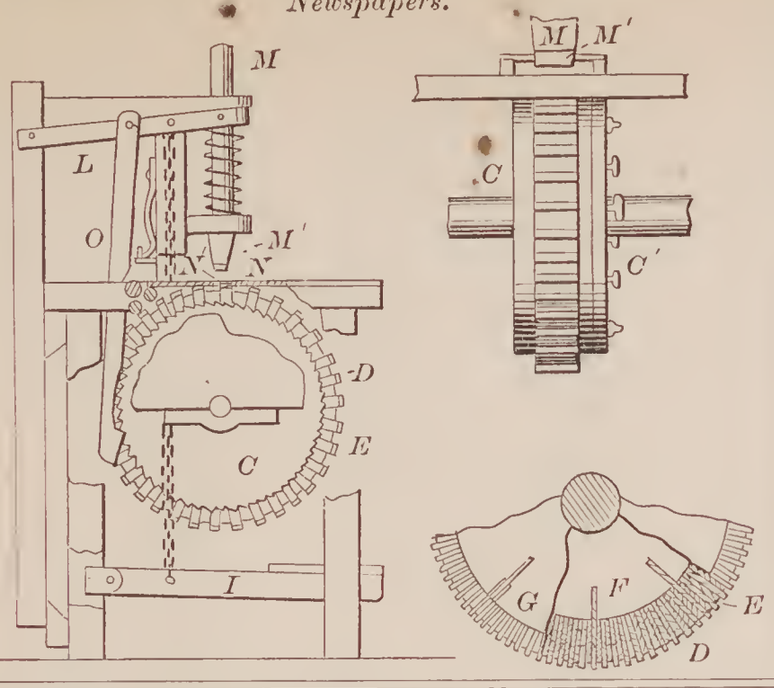
76431—W. Frederick—*Boot and Shoe Stretcher.*



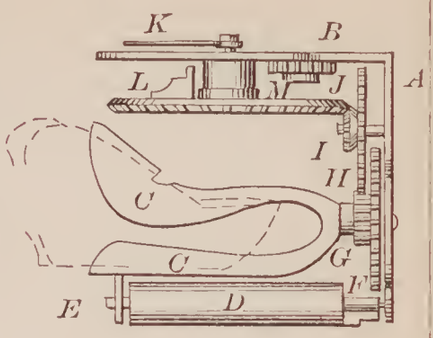
76432—C. French—*Bending Mandrel*



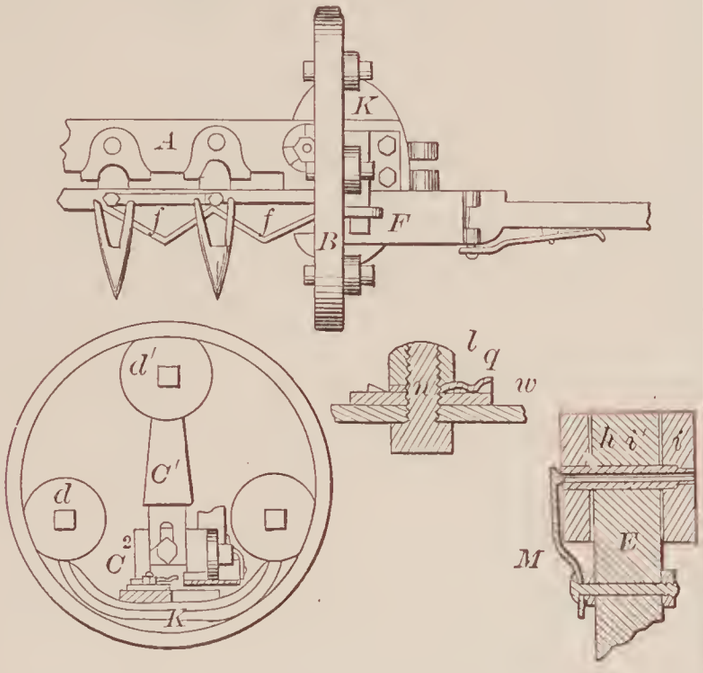
76433—J. C. Gaither—*For Printing Addresses on Newspapers.*



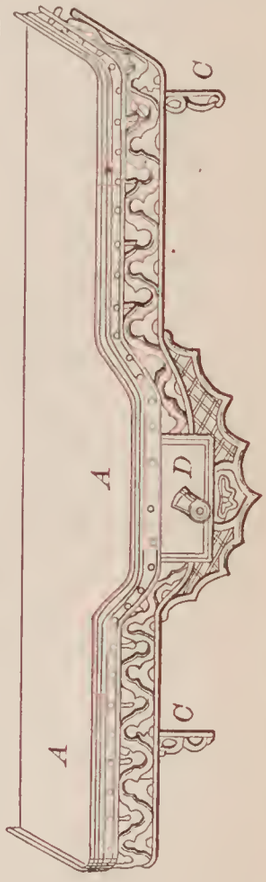
76435—H. Gilbert—*Register.*



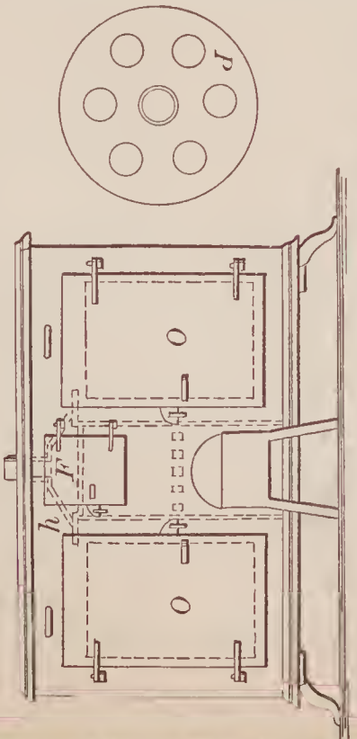
76436—A. B. Graham—*Harvester.*



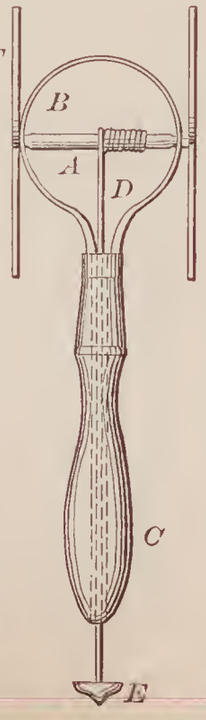
76434—L. Gibbs—*Bracket Shelf and Drawer.*



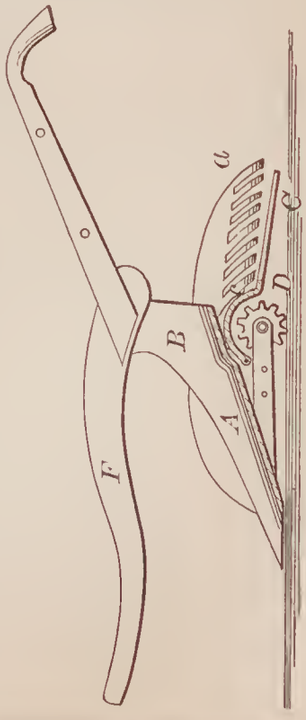
76437—W. H. Graham—*Cooking Range.*



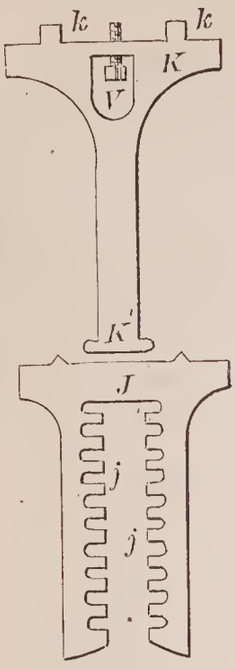
76439—Groves & Turner—*Whirligig Toy.*

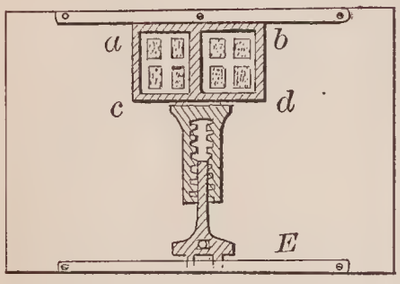


76438—A. Graves—*Potato Digger.*

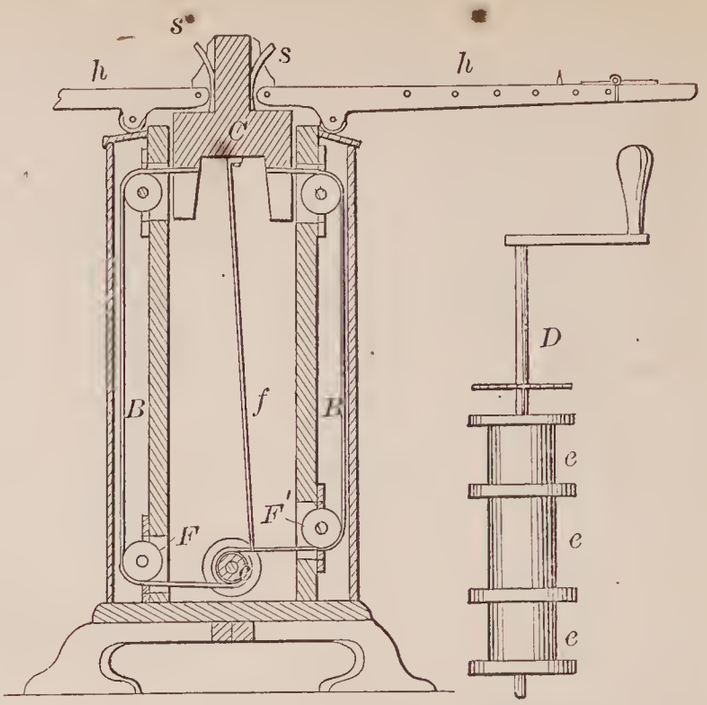


76440—F. T. M. A. Guyon—*Printers' Furniture.*

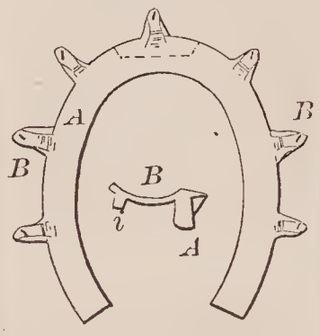




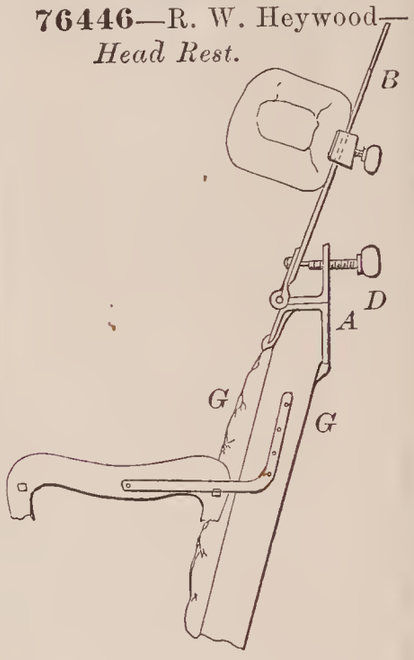
76441—E. R. Hall—*Clothes Dryer.*



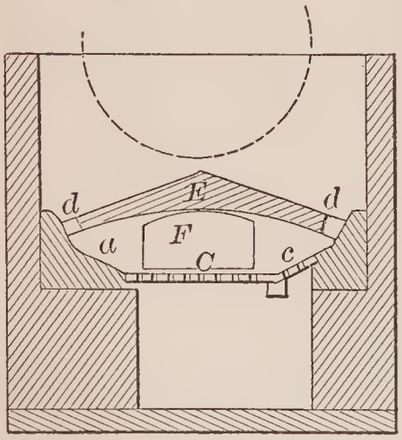
76449—W. Hinds—*Horse Shoe.*



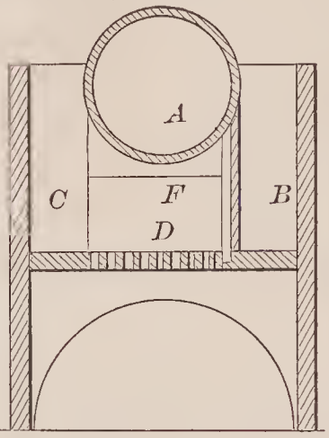
76446—R. W. Heywood—*Head Rest.*



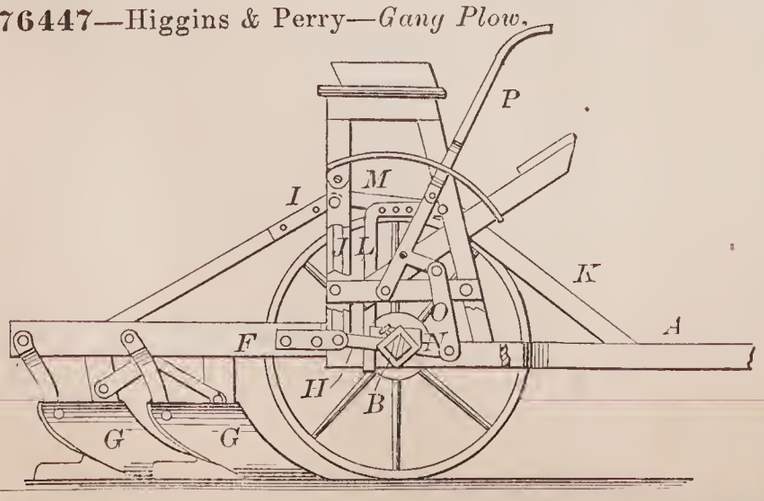
76444—J. J. Heindl—*Furnace Grate.*



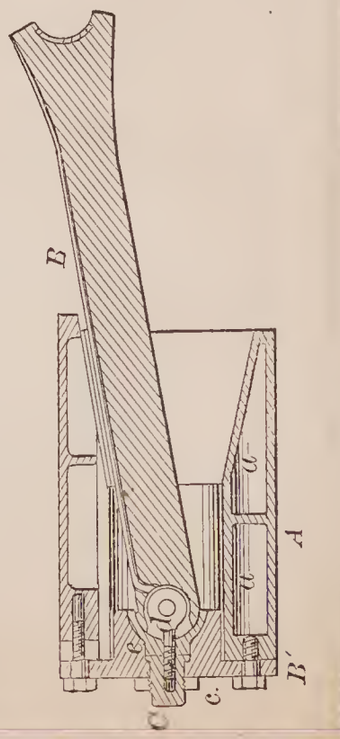
76442—B. A. Haycock—*Furnace Lining*



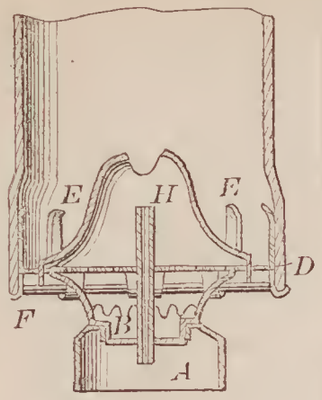
76447—Higgins & Perry—*Gang Plow.*



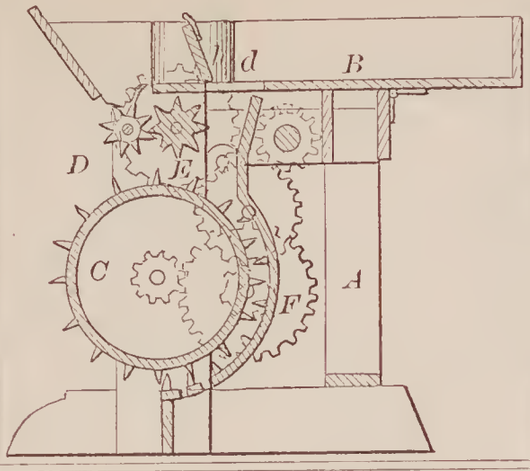
76446—Hinds & Lodge—*Steam Engine Piston.*



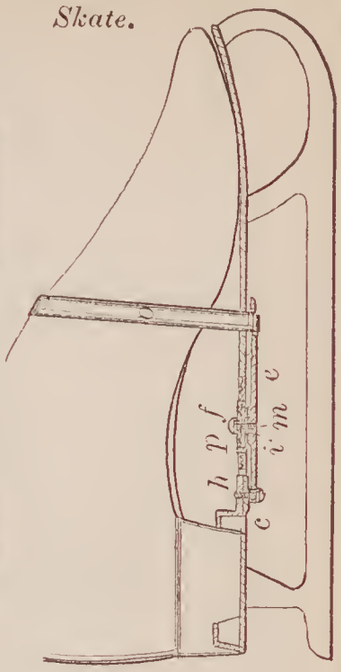
76450—Hoadley & Shipman—*Lamp Burner.*



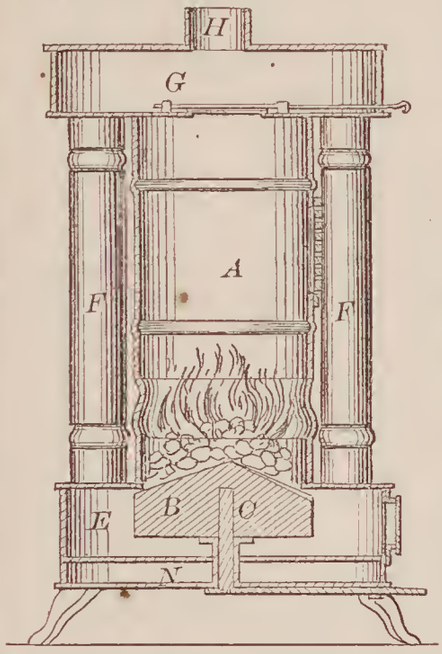
76451—E. Hoffstaetter—*For Picking Hair.*



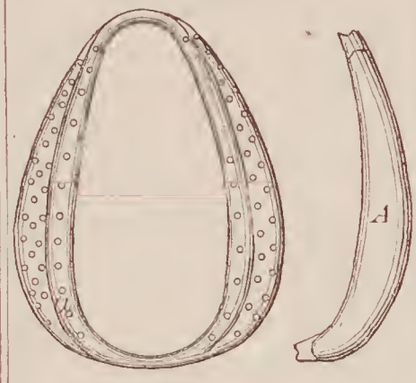
76453—J. Holland—*Skate.*



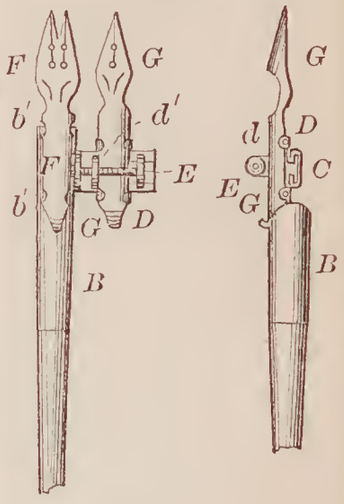
76455—E. Hosford—*Stove.*



76456—I. Houghtling—*Horse Collar.*

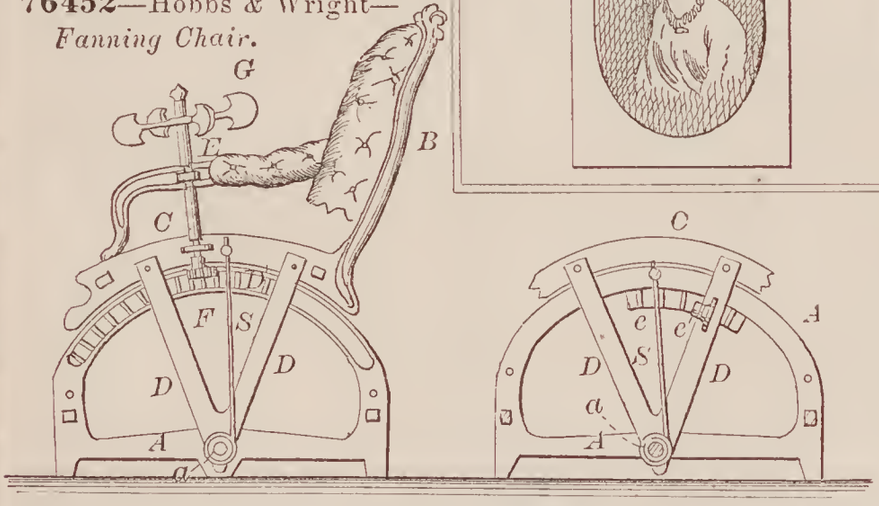


76454—J. H. Holland—*Pen.*

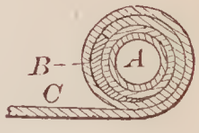


76458—O. P. Howe—*Photographic Transfer.*

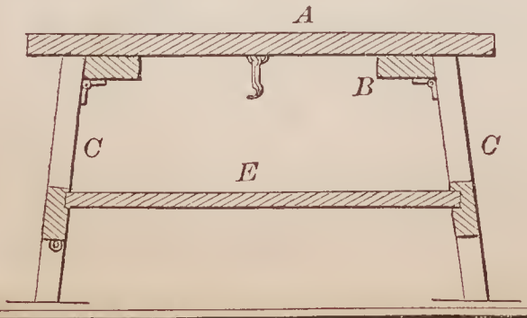
76452—Hobbs & Wright—*Fanning Chair.*



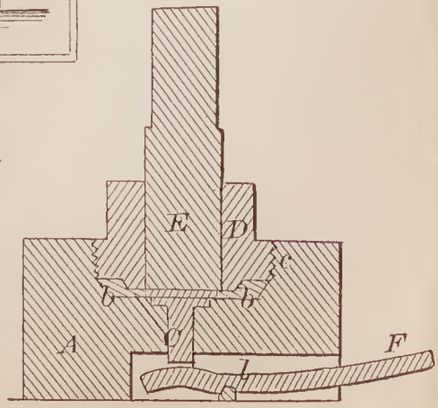
76457—T. P. How—*Copying Press.*



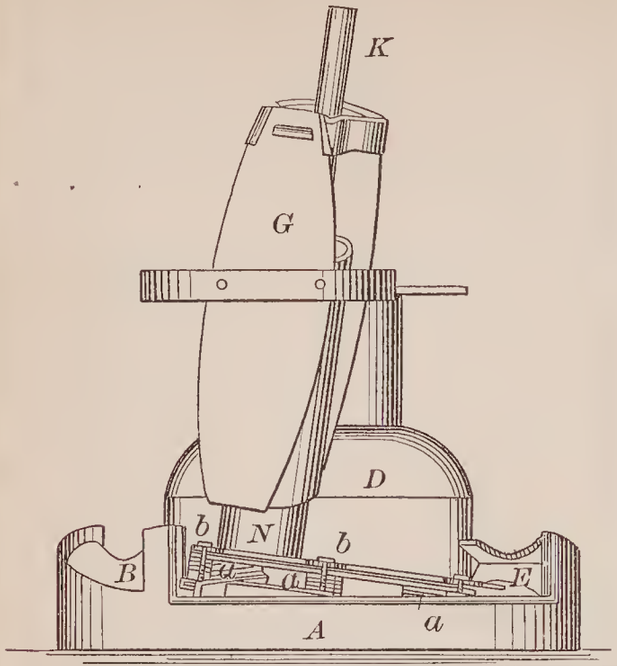
76459—L. D. Hubbard—*Bench or Table.*



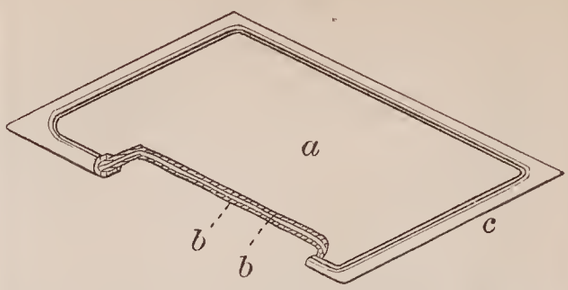
76460—T. S. Hudson—*Die for Forming Letters.*



76461—S. Hughes—*Ore Crusher and Grinder.*

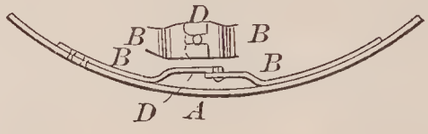


76462—S. W. Huntington—*Lamp Shade.*

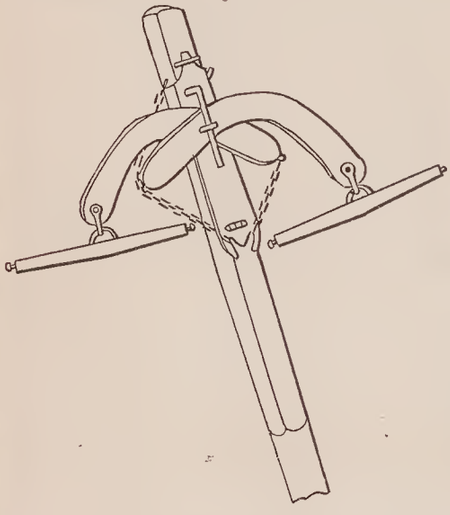


76464—L. H. Johnson—*Corn Husker.*

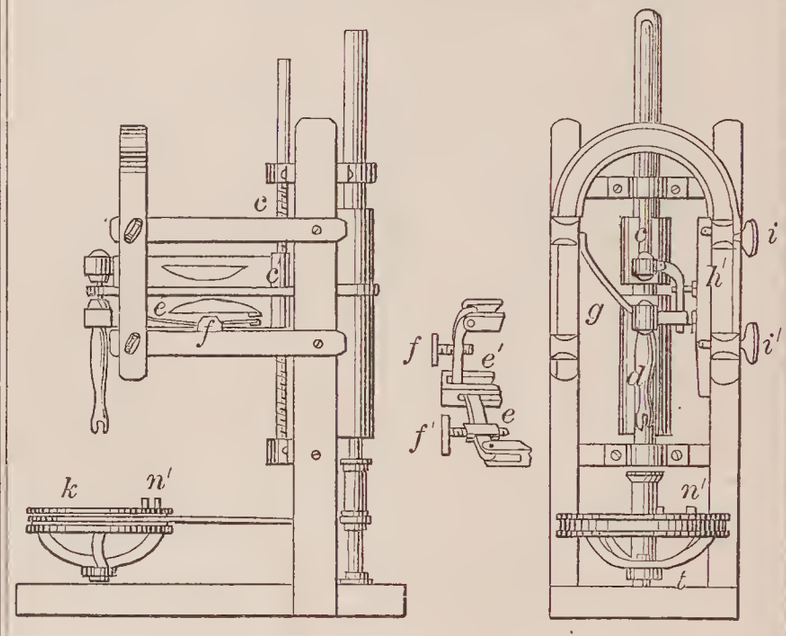
76468—W. J. Ketcham—*Necktie Retainer.*



76466—R. F. Judson—*Draft Equalizer for Doubletrees.*

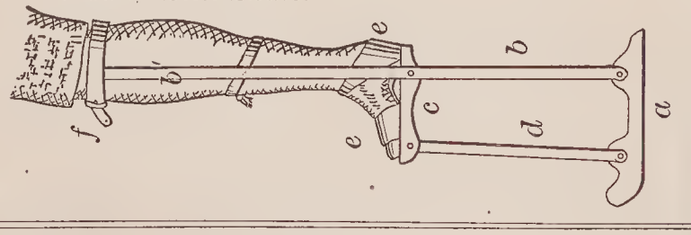


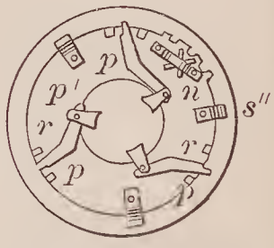
76467—J. T. Kendall—*For Boring Wagon Hubs.*



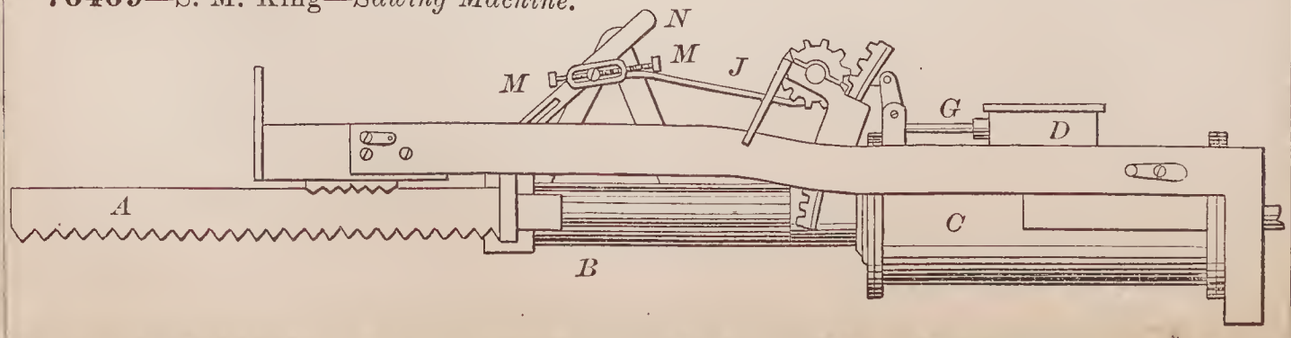
76470—C. M. Kinsel—*Bracelet.*

76465—W. Jordan—*Stilt Skate.*

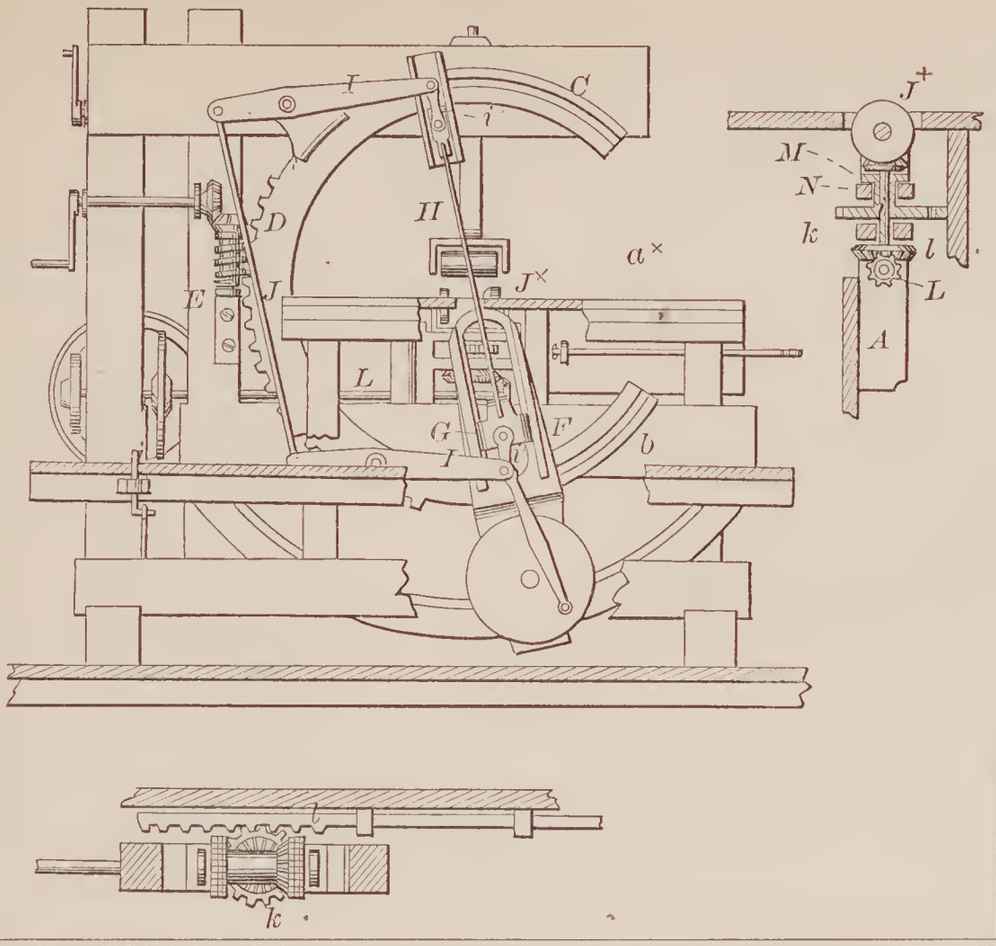




76469—S. M. King—*Sawing Machine.*

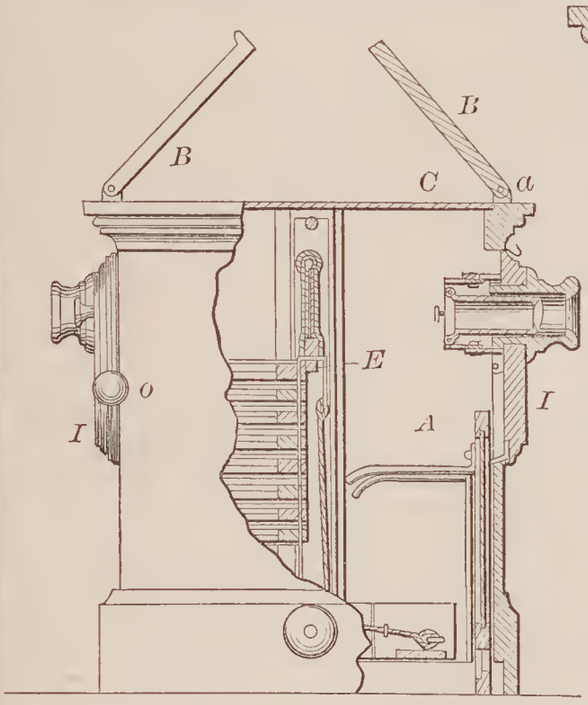


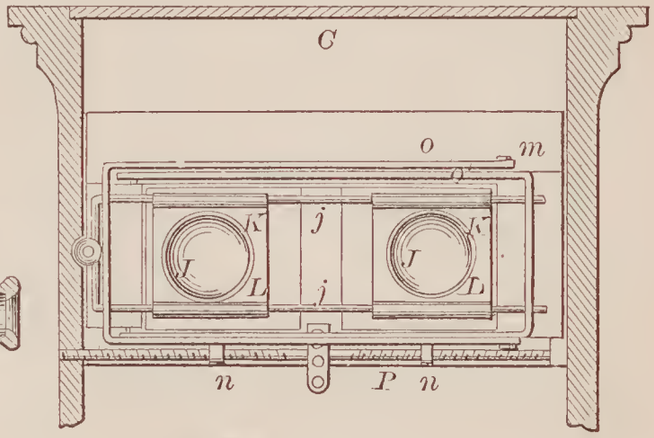
76471—J. L. Knowlton—*Saw Mill.*

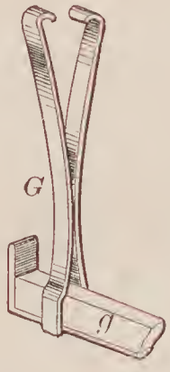


76474—J. D. Lane—*Manufacture of Tin Boxes.*

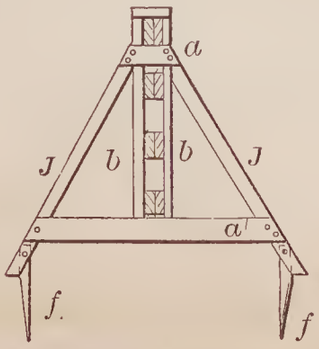
76472—W. M. Kohl—*Stereoscope.*





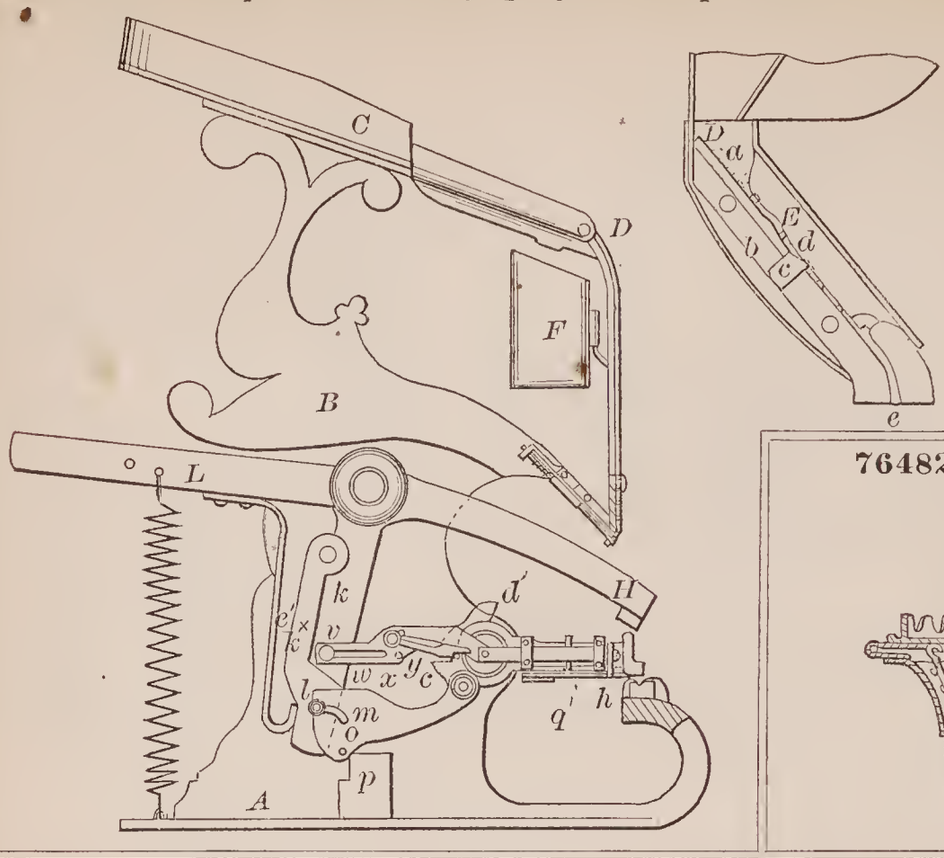


76475—C. Lee—*Fence.*

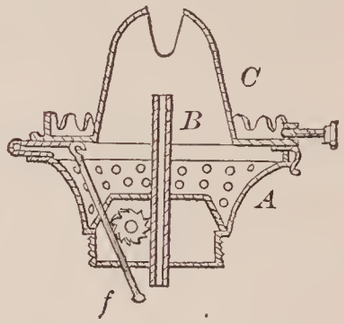


76476—I. Lindsley—*Hair Cloth.*

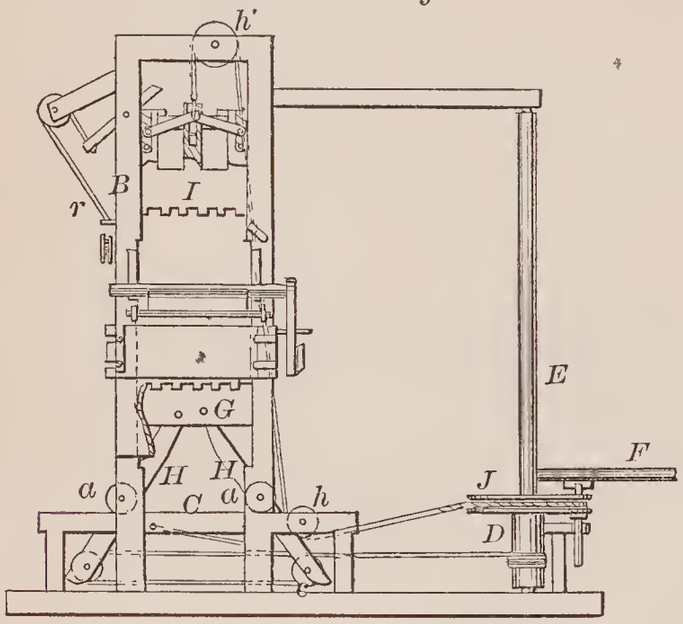
76474—A. Komp—*For Attaching Spangles to Hoop Skirts.*



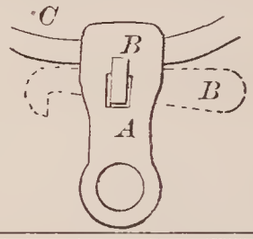
76482—J. J. Marcy—*Lamp.*



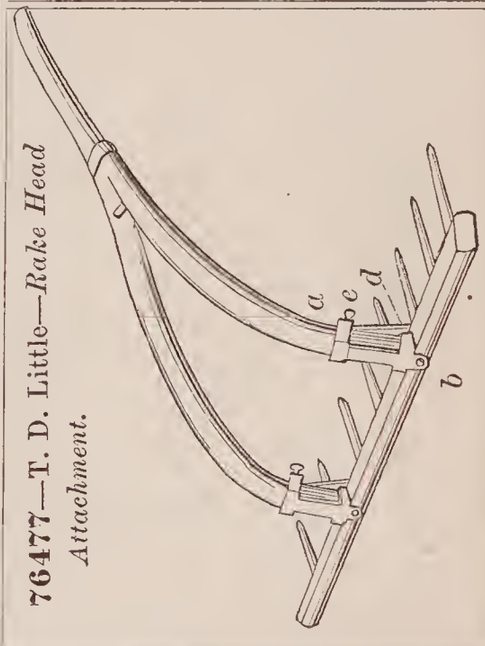
76478—G. W. Lockhart—*Hay Press.*



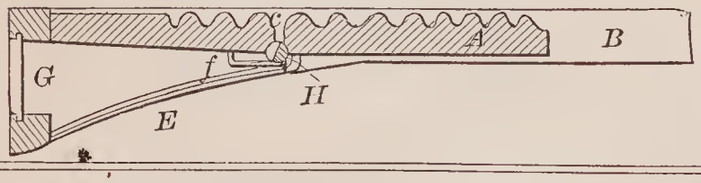
76480—M. Alden—*Horse Rake.*



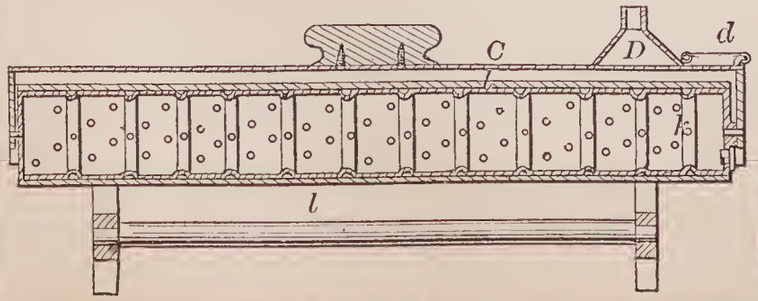
76477—T. D. Little—*Rake Head Attachment.*



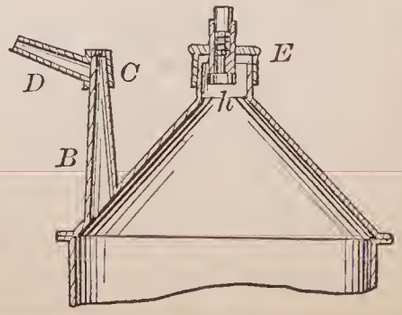
76481—F. E. Maberry—*Wash Board.*



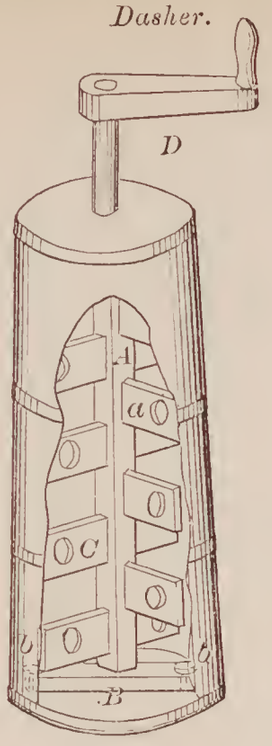
76479—J. A. Lynch—*Paper Dampener.*



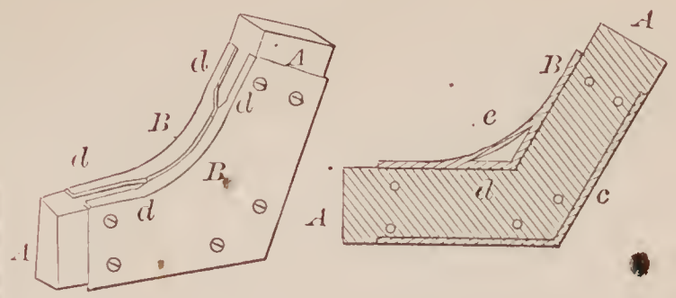
76483—J. J. Marcy—*Oil Can.*



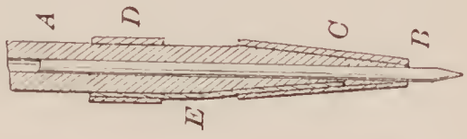
76484—M. E. J. Marr—*Churn Dasher.*



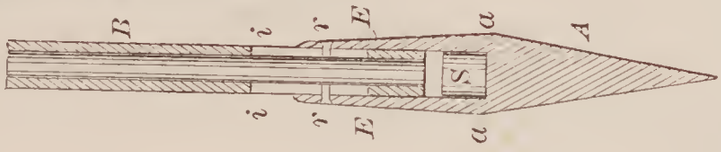
76487—E. G. Matthews—*Dory Boat Knee.*



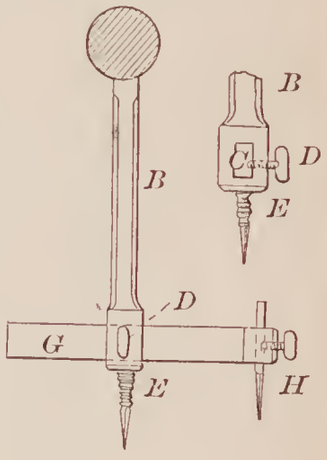
76488—T. B. McCaughan—*Pencil Case.*



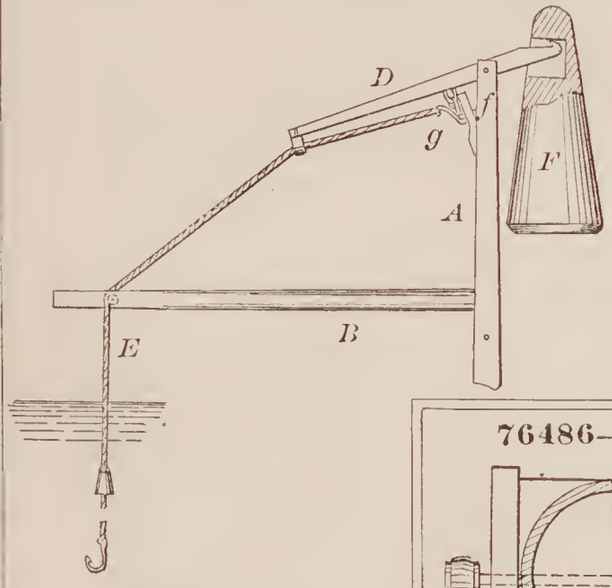
76485—W. Martin—*Well Tube.*



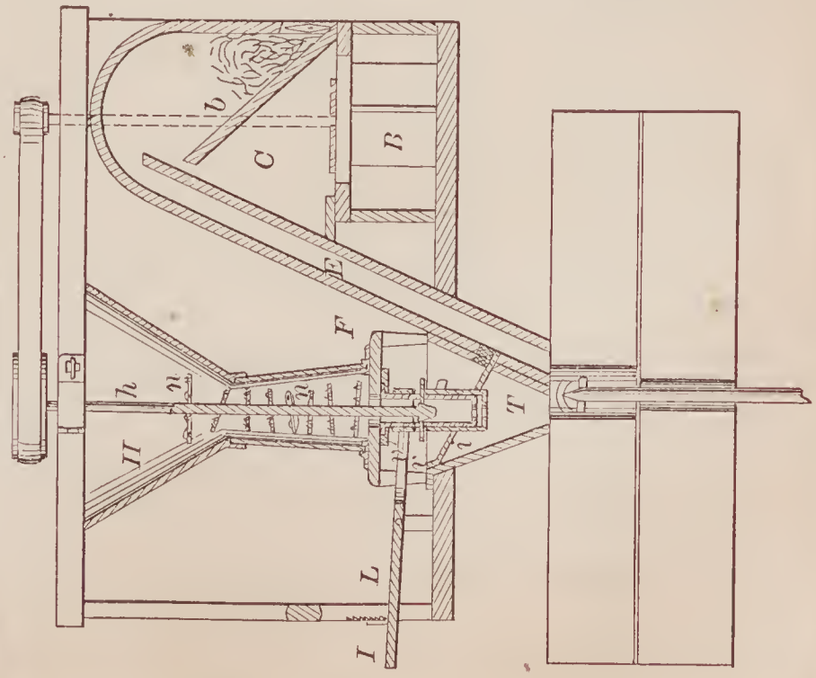
76490—M. T. McCormick—*Can Opening Tool.*



76489—T. B. McCaughan—*Fish Trap.*

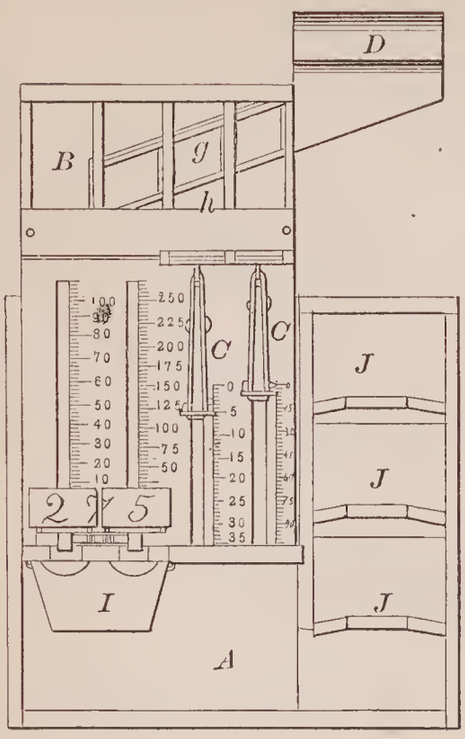


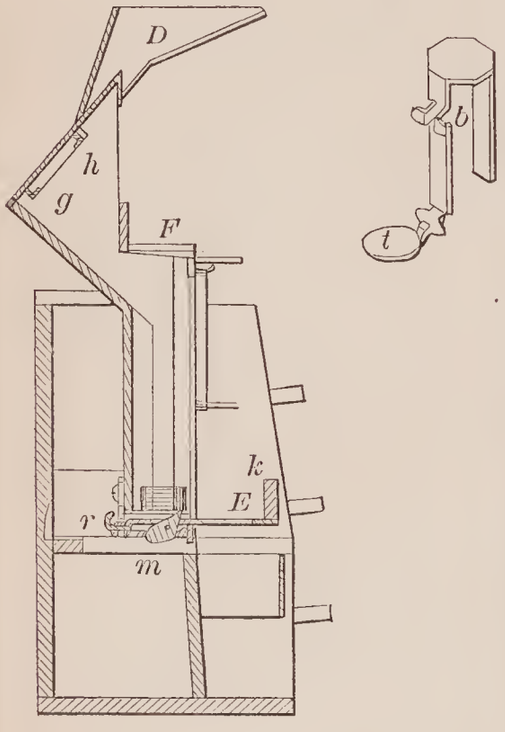
76486—P. H. Massey—*Grain Scouring Apparatus.*



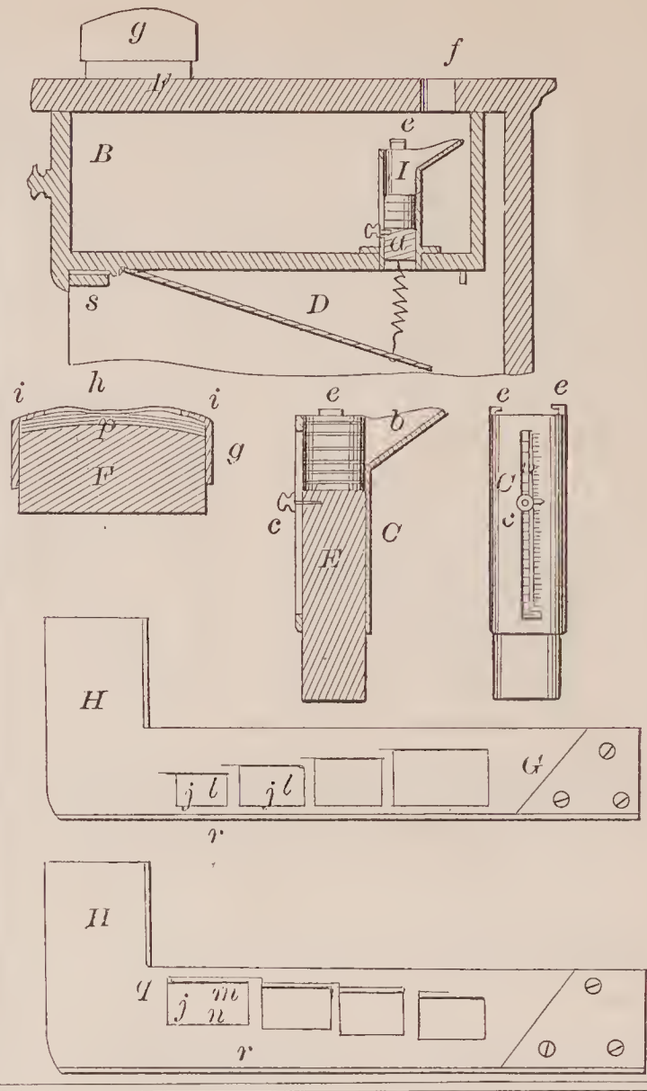
76491—W. McFarland—*Tenon for Blind Slats.*

76492—J. W. Meaker—*For Assorting Coin.*

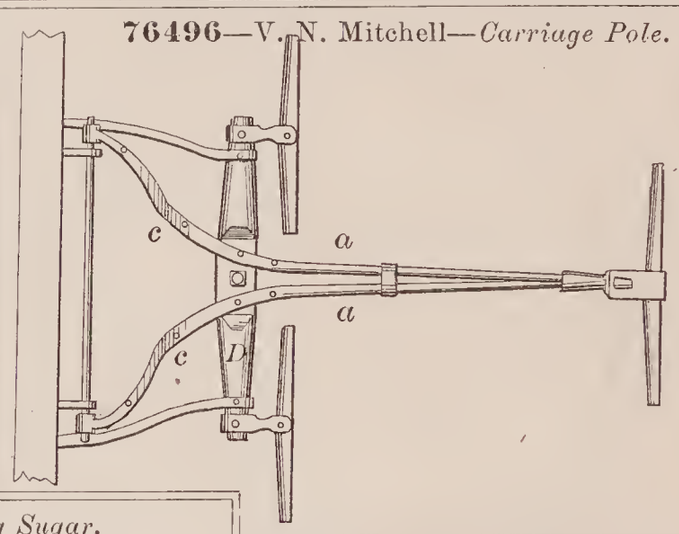




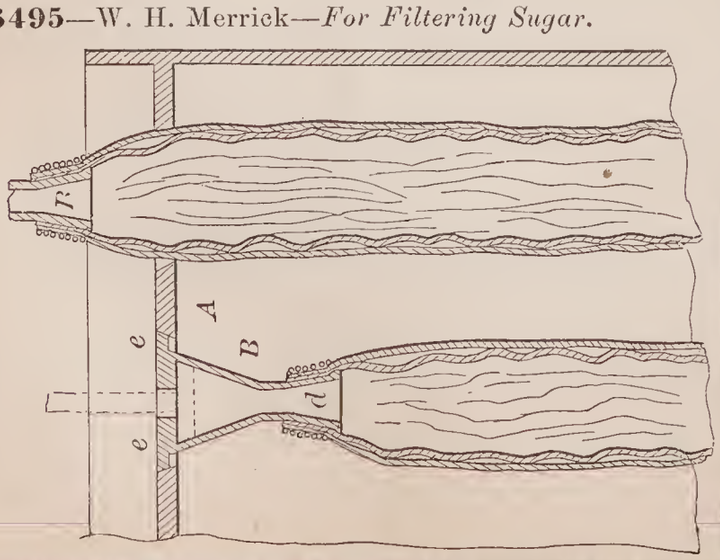
76493—J. W. Meaker—*For Assorting Coin.*



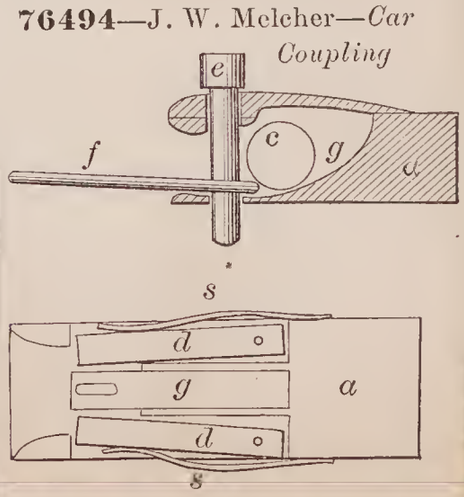
76496—V. N. Mitchell—*Carriage Pole.*



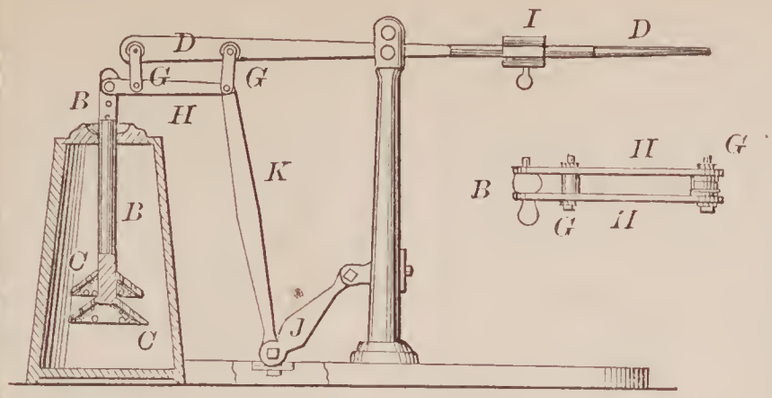
76495—W. H. Merrick—*For Filtering Sugar.*



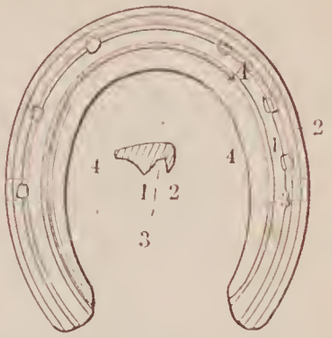
76494—J. W. Melcher—*Car Coupling*



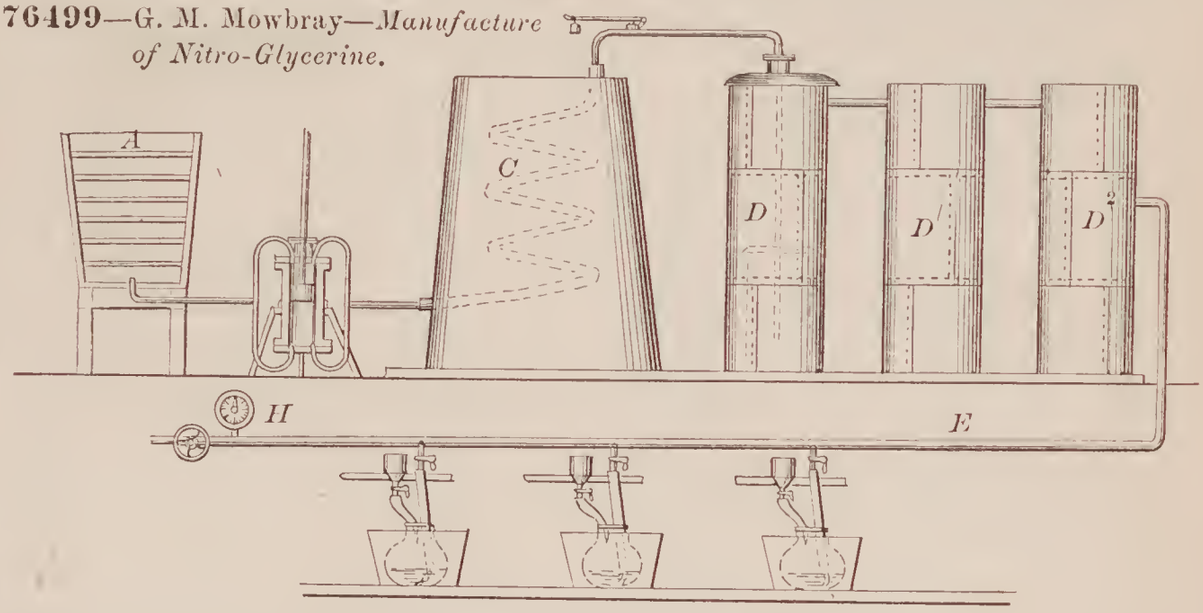
76497—E. J. Moore—*Churning Apparatus.*



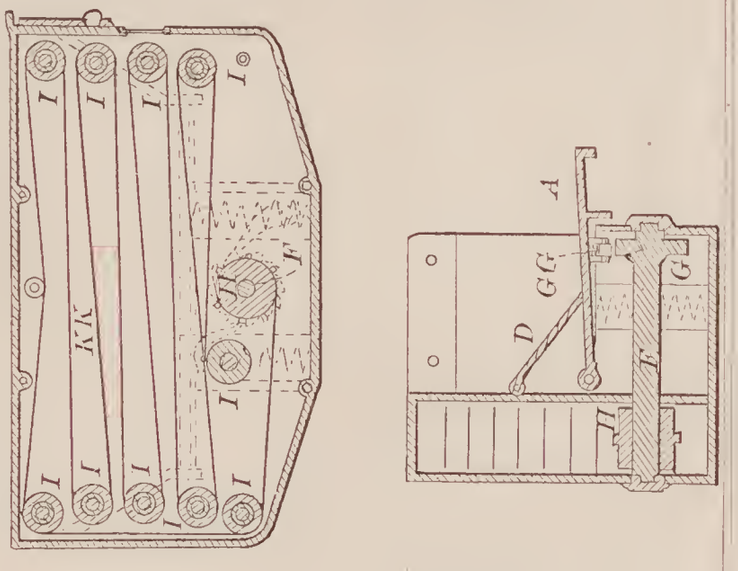
76501—P. Murray—*Horse Shoe.*



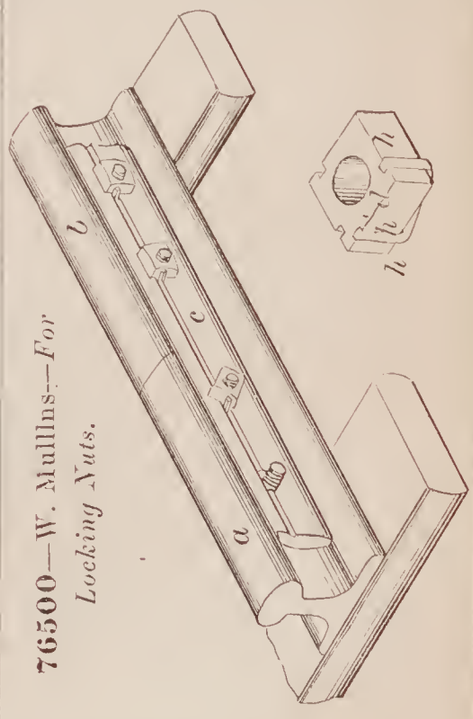
76499—G. M. Mowbray—*Manufacture of Nitro-Glycerine.*



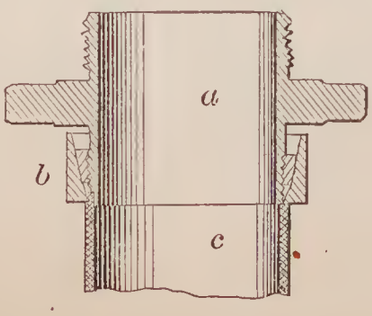
76502—A. F. Nagle—*Passenger Register.*



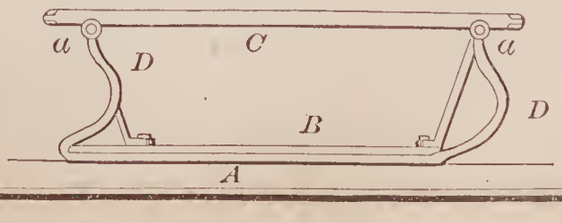
76500—W. Mullins—*For Locking Nuts.*



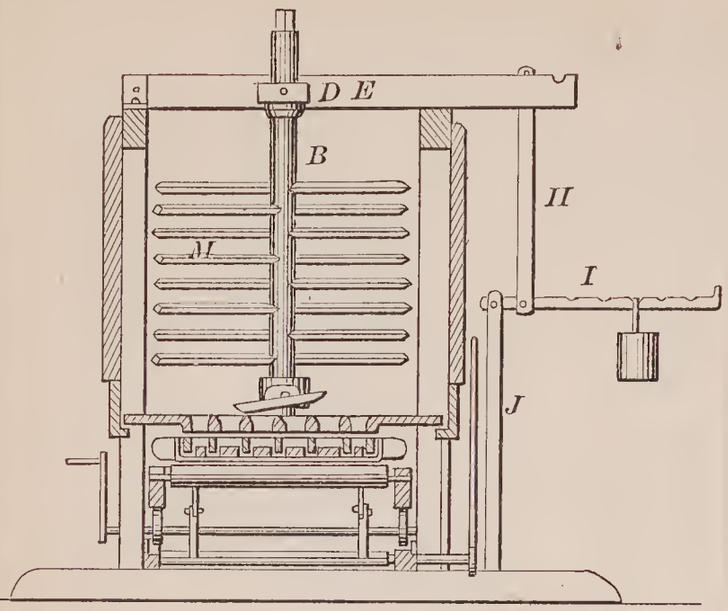
76503—P. H. Niles—*Hose Coupling.*



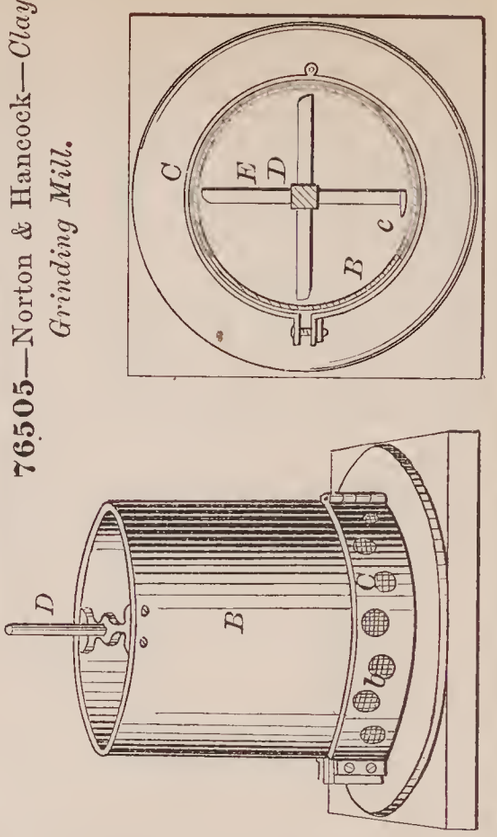
76498—J. C. Moore—*Sleigh Runner and Attaching it to Axles.*

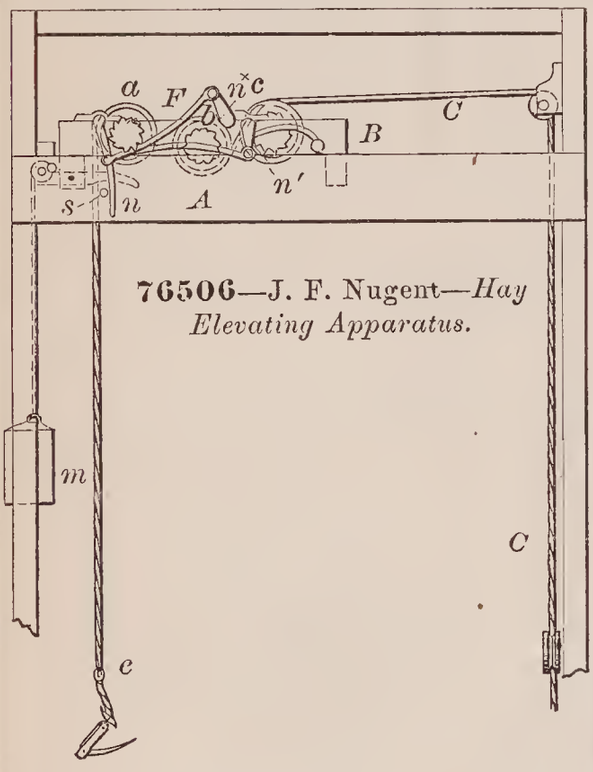


76504—C. Nolan—*Brick Machine.*



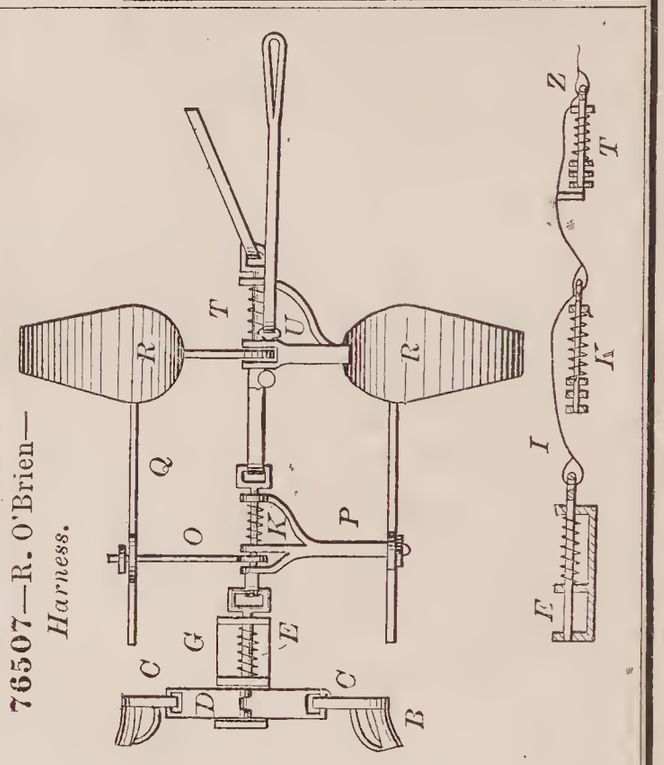
76505—Norton & Hancock—*Clay Grinding Mill.*



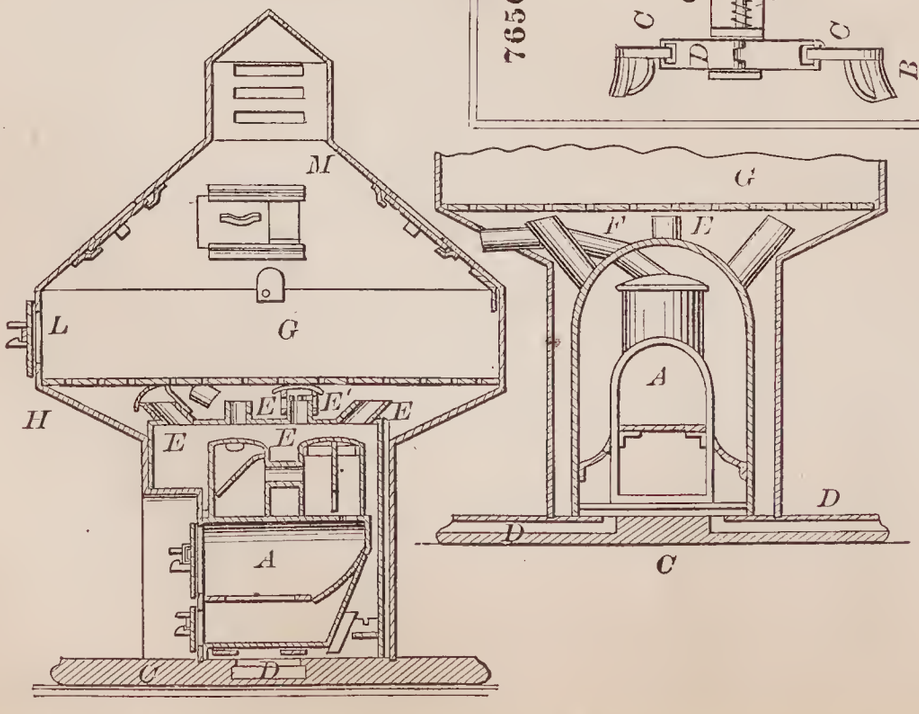


76506—J. F. Nugent—*Hay Elevating Apparatus.*

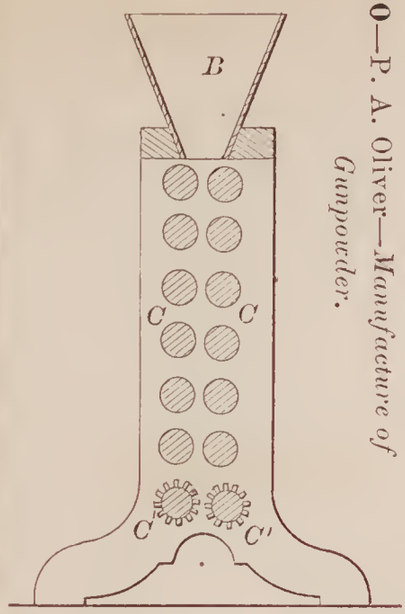
76507—R. O'Brien—*Harness.*



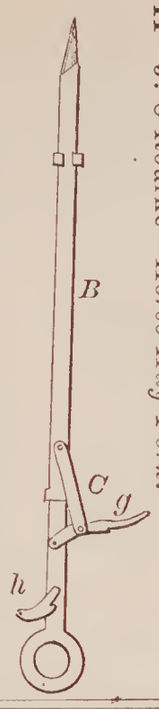
76508—Oefinger & Grupp—*Malt Drying Kiln.*



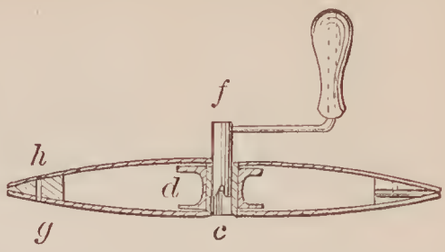
76510—P. A. Oliver—*Manufacture of Gunpowder.*



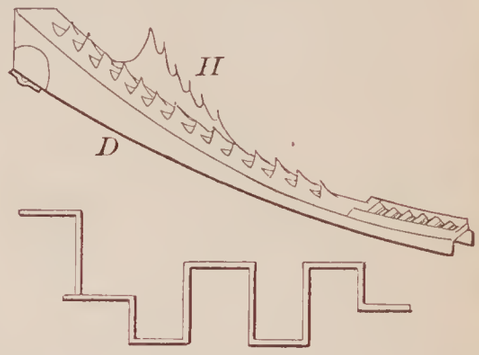
76511—J. O'Rourke—*Horse Hay Fork.*



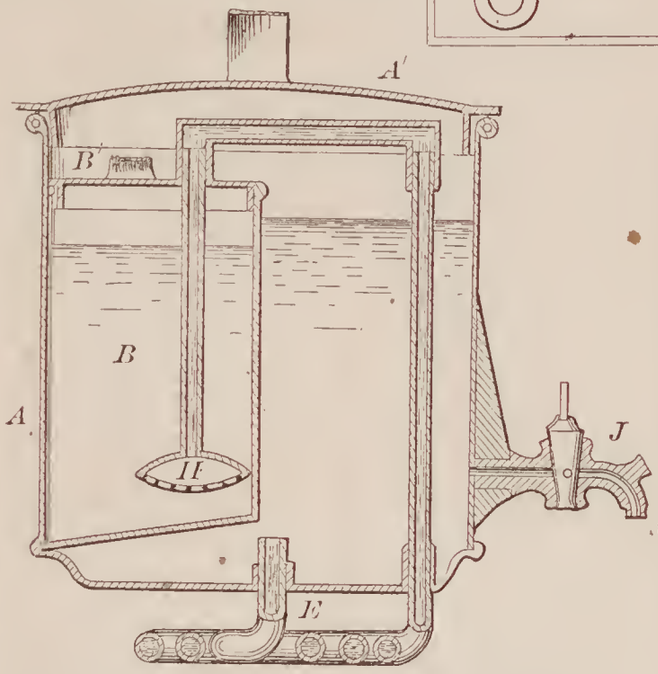
76512—E. N. Parker—*Tatting Shuttle.*



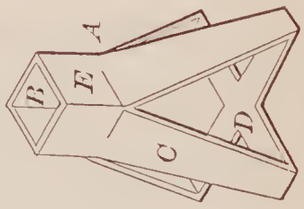
76513—W. Parker—*Straw Carrier.*



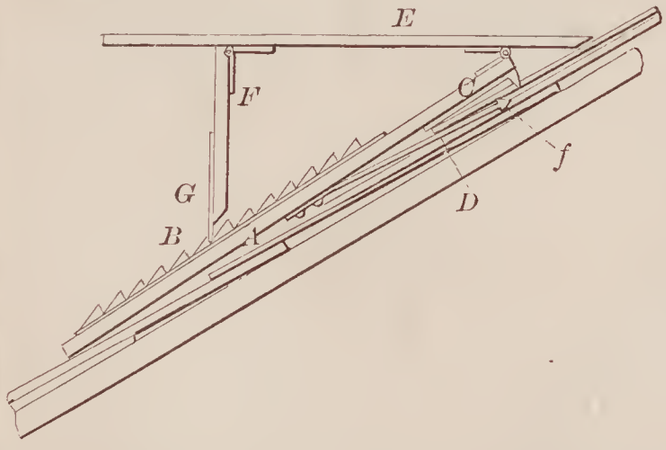
76514—Patterson & Hill—*Coffee Pot.*



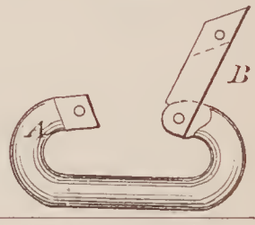
76515—G. R. Patton—*Fence Post.*



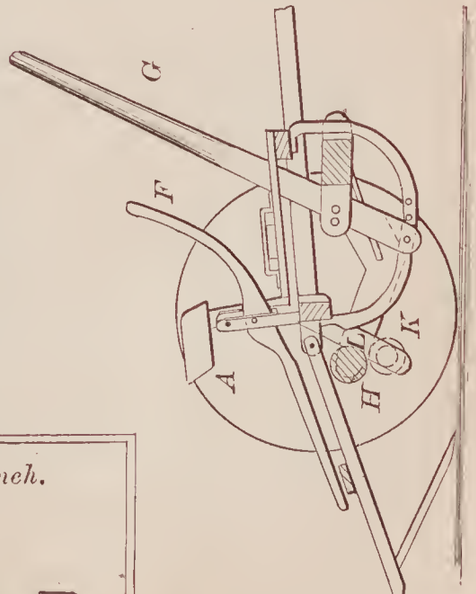
76516—C. M. Pease—*Roof Staging.*



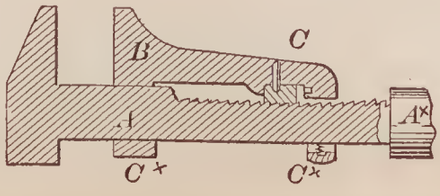
76517—W. N. Pelton—*Connecting Link.*



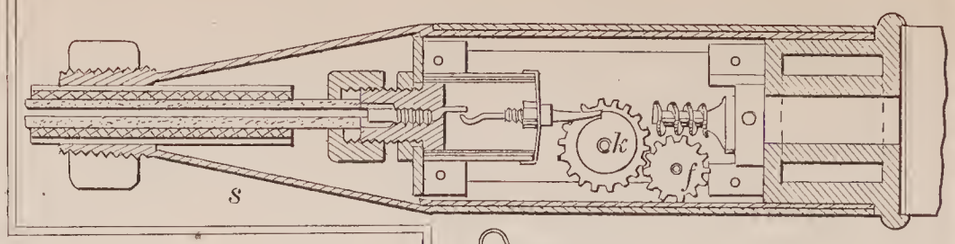
76518—C. B. Perkins—*Horse Rake.*

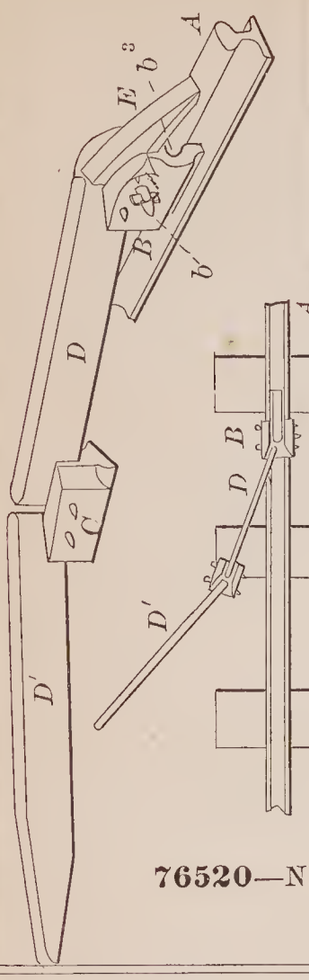


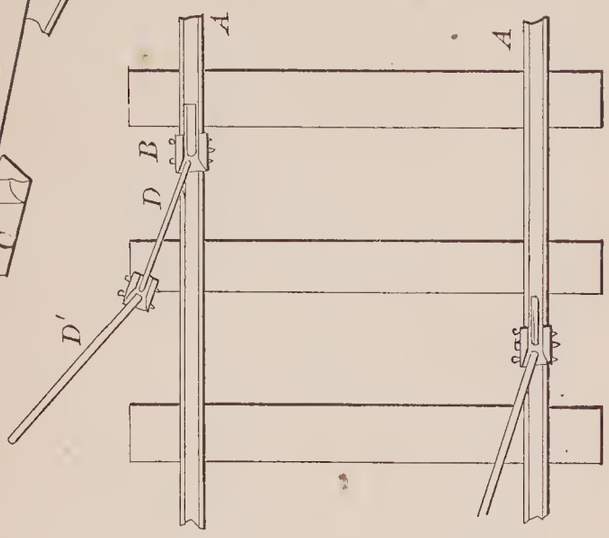
76519—A. S. Petrie—*Wrench.*



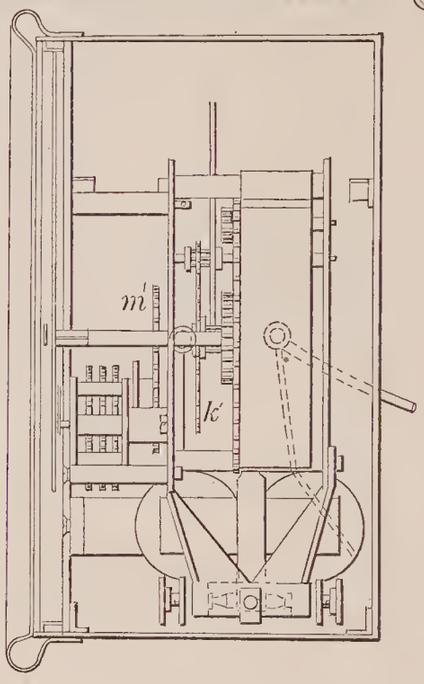
76521—W. I. Reid—*Electro-Magnetic Log.*



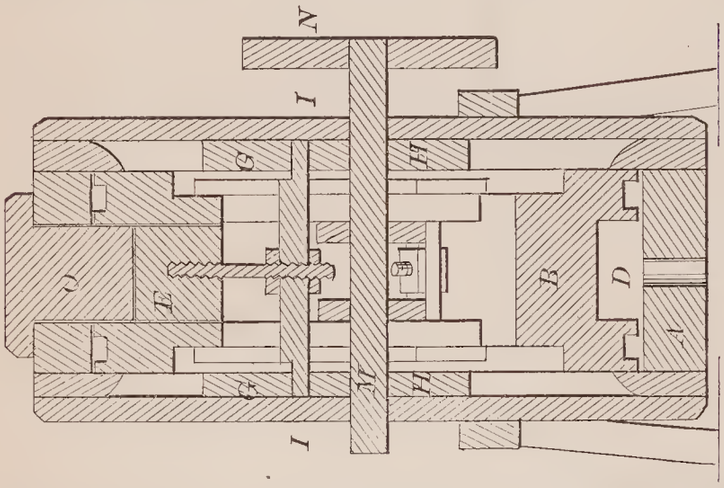




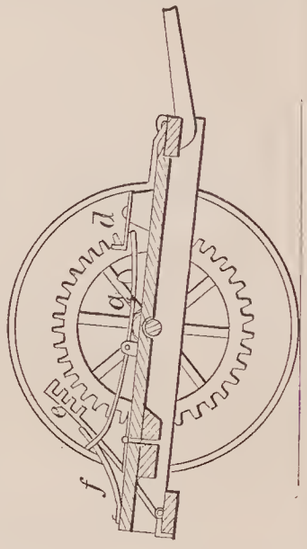
76520—N. Pullman—*Car Replacer.*



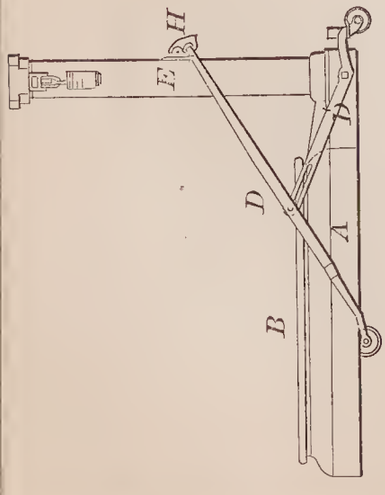
76525—M. Rikert—*Rotary Steam Engine.*

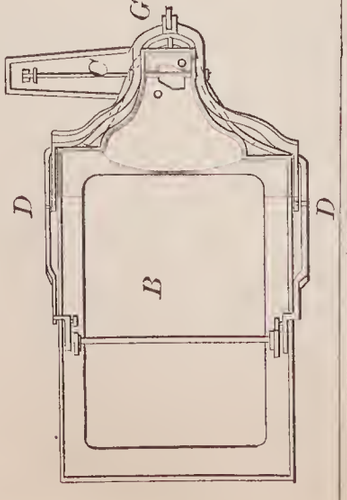


76522—S. Rex—*Harvester.*

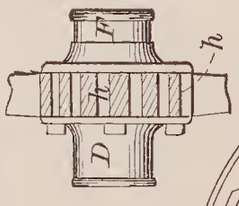


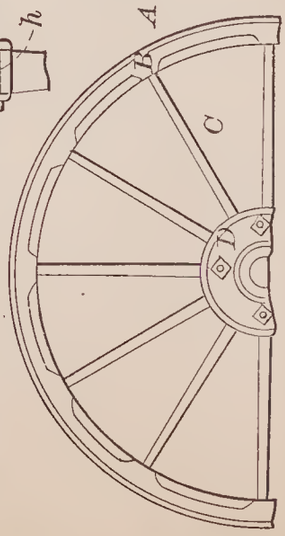
76523—W. W. Reynolds—*Platform Scale.*



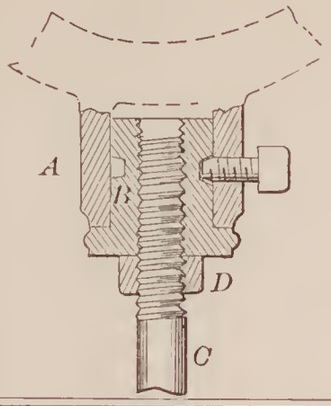


76524—P. Richardson, Jr.—*Wagon Wheel.*

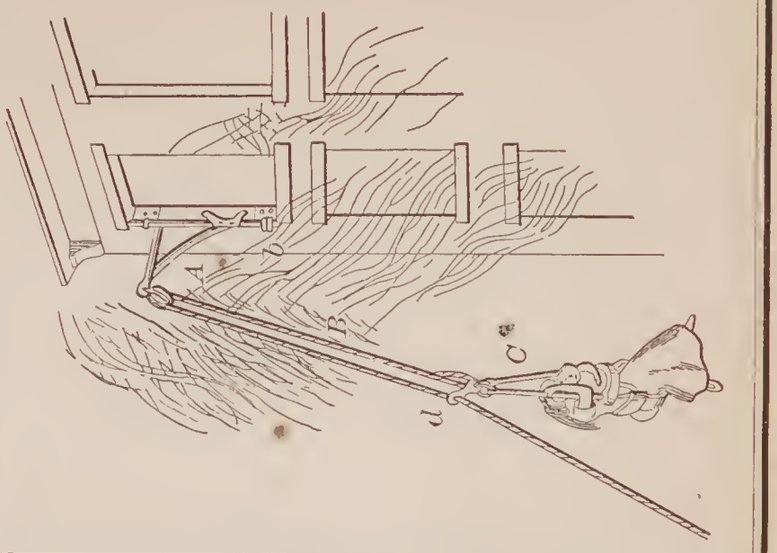




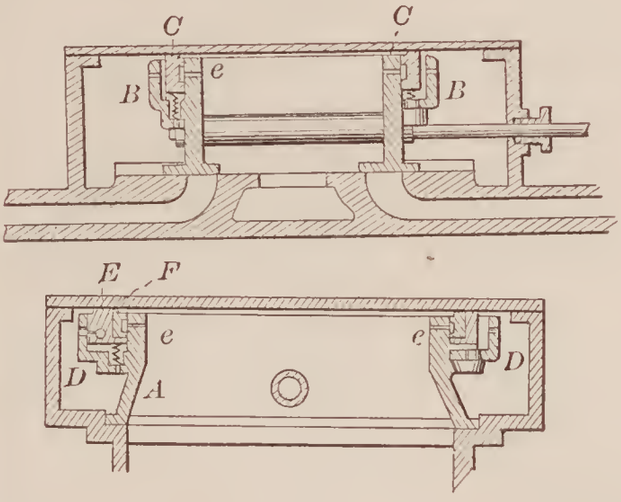
76526—J. Robertson—*Valve Rod Connection.*



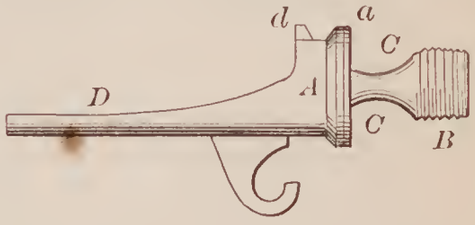
76527—A. Robinson—*Fire Escape.*



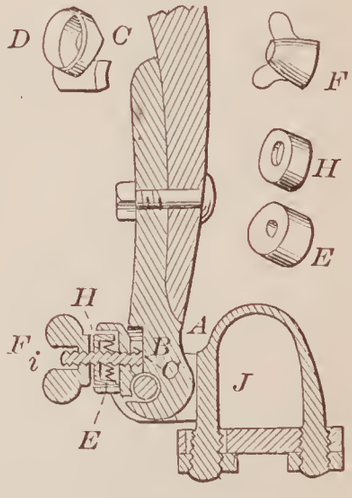
76528—W. B. Robinson—*Balanced Slide Valve.*



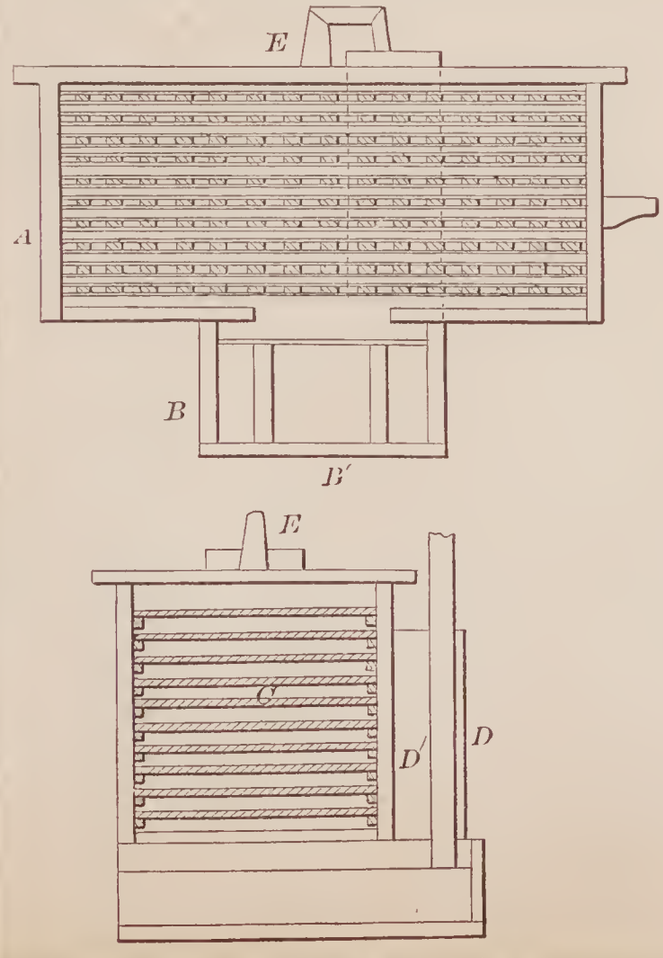
76530—E. B. Sargent—*Sap Spout.*



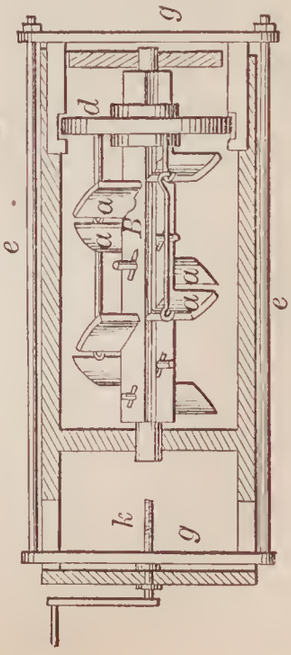
76531—A. Searls—*Shaft Coupling.*



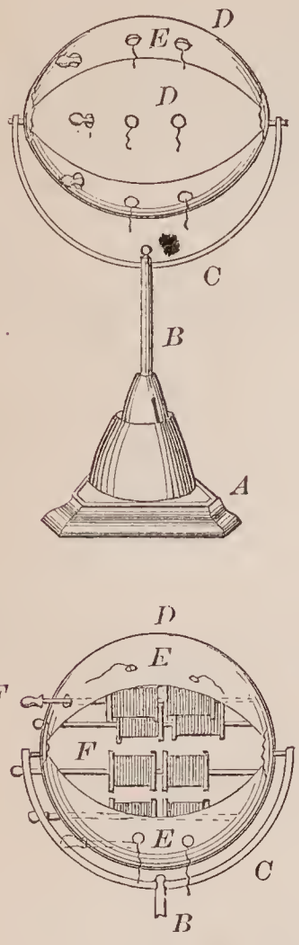
76532—M. A. Shepard—*Fruit Dryer.*



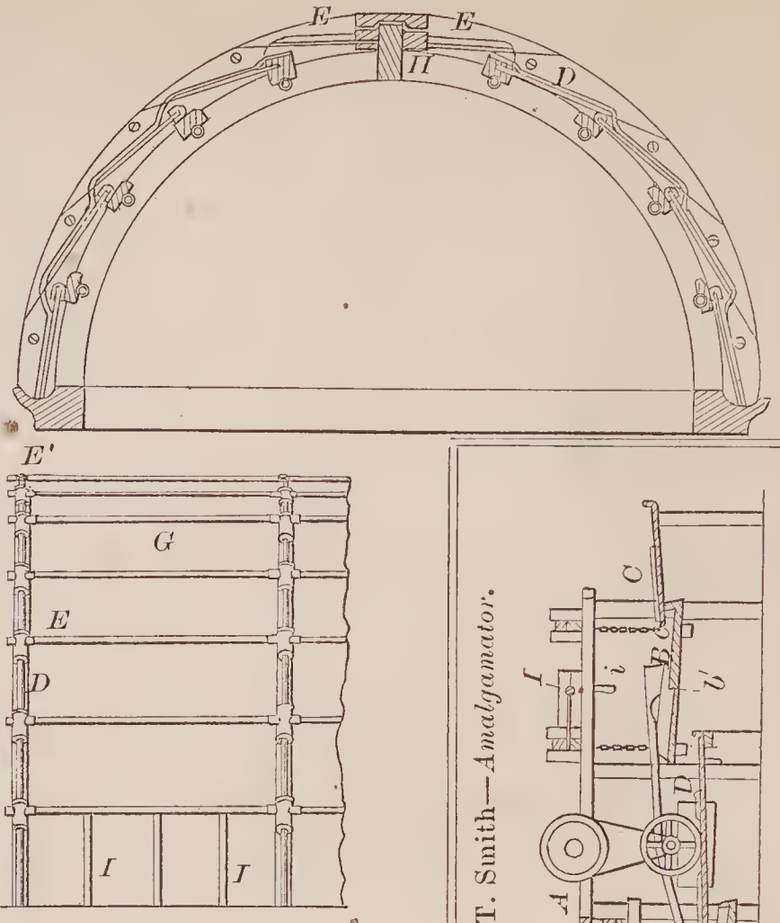
76529—J. M. Rush—*Grain Conveyor.*



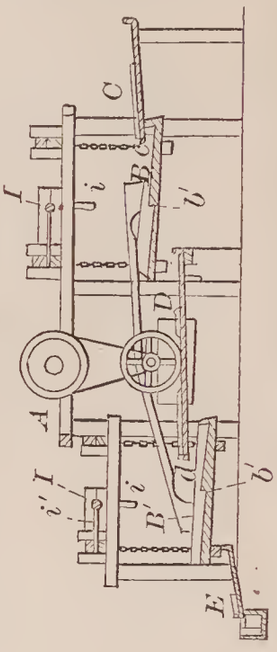
76533—J. H. Simmons—*Spool Stand.*



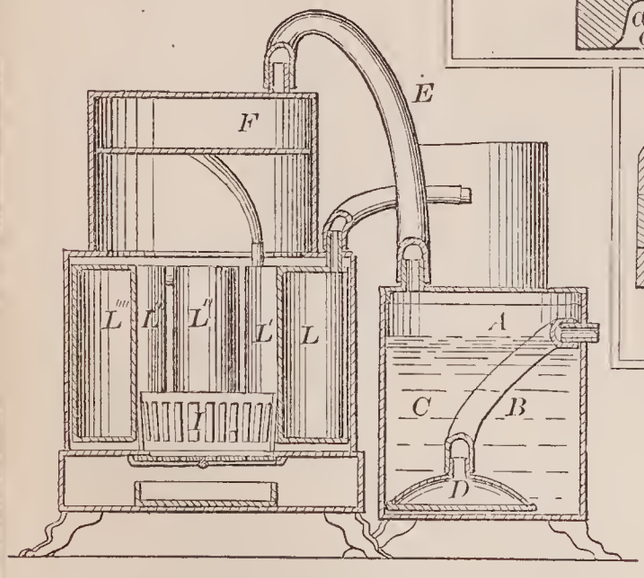
76534—Simpson & Howitt—*Steam Heater.*



76538—R. & W. T. Smith—*Amalgamator.*

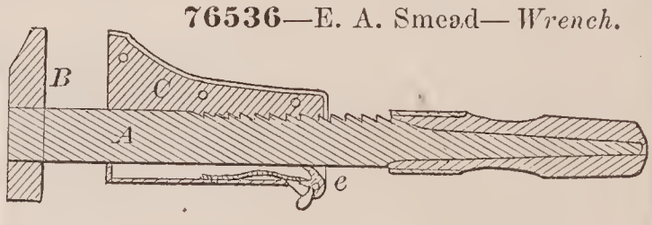


76535—W. M. Sloan—*For Generating Gas.*

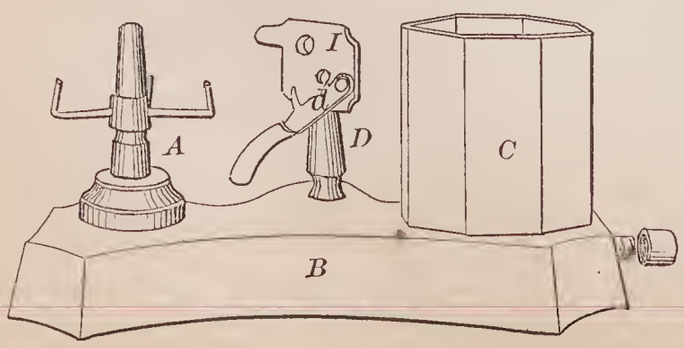


76540—W. Smith—*Brick for Building.*

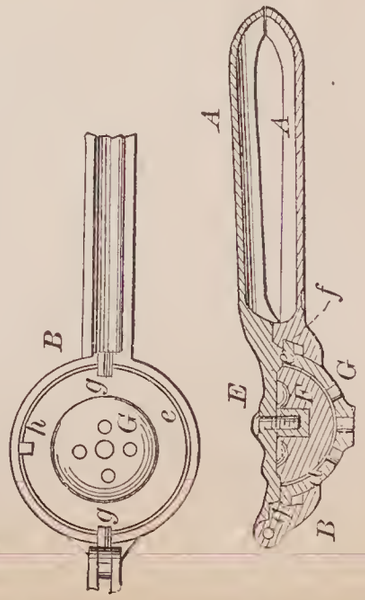
76536—E. A. Smead—*Wrench.*



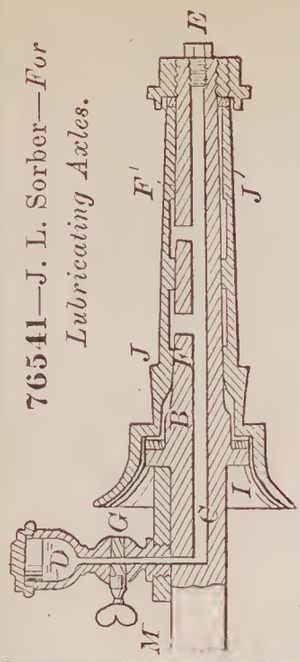
76537—C. F. Smith—*For Cutting Cigars &c.*



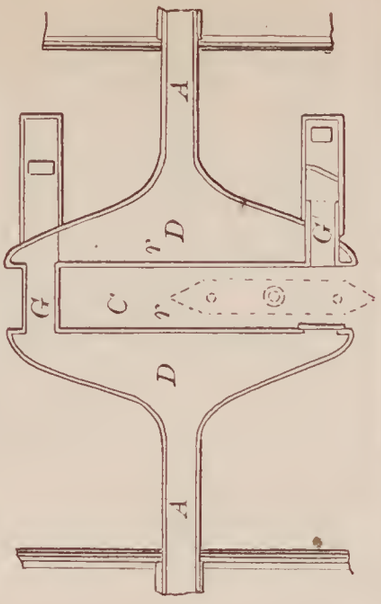
76539—T. C. Smith—*Lemon Squeezer.*



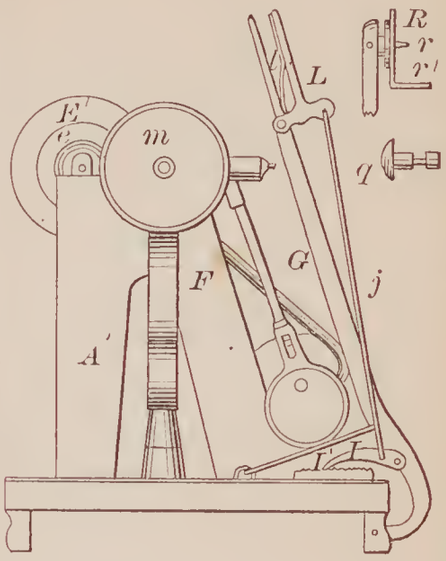
76541—J. L. Sorber—*For Lubricating Axles.*



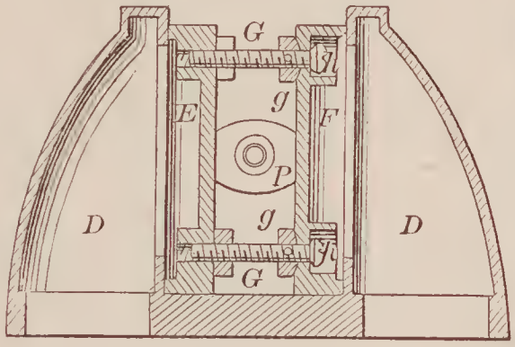
76542—T. S. Speakman—*Draw Bridge.*



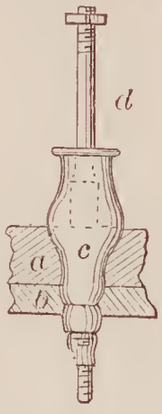
76543—V. K. Spear—*For Polishing Boot and Shoe Heels.*



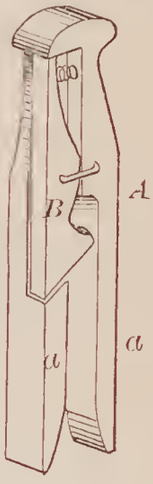
76545—Stocking & Shaffer—*Steam Engine Slide Valve.*



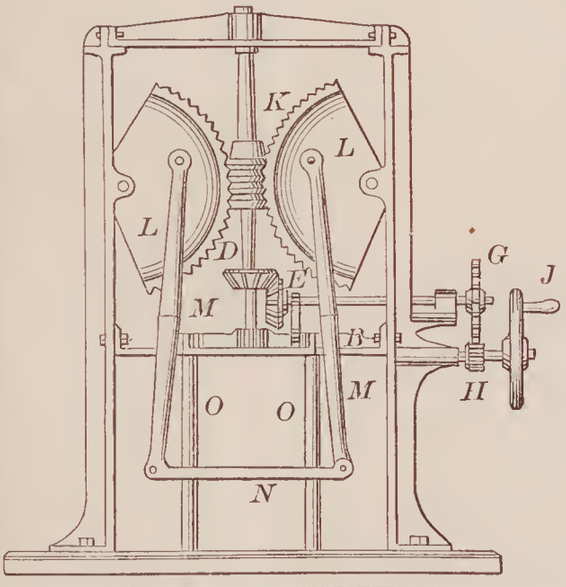
76546—J. Strawn—*Carriage Bolt.*



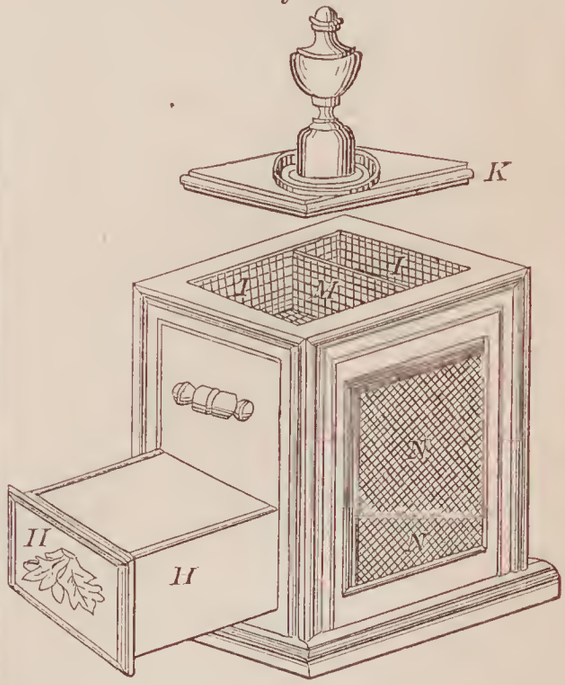
76547—A. L. Taylor—*Clothes Pin.*



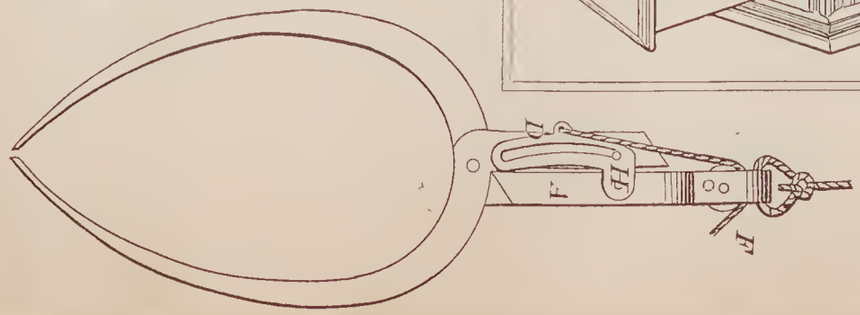
76548—E. Taylor—*Baling Press.*



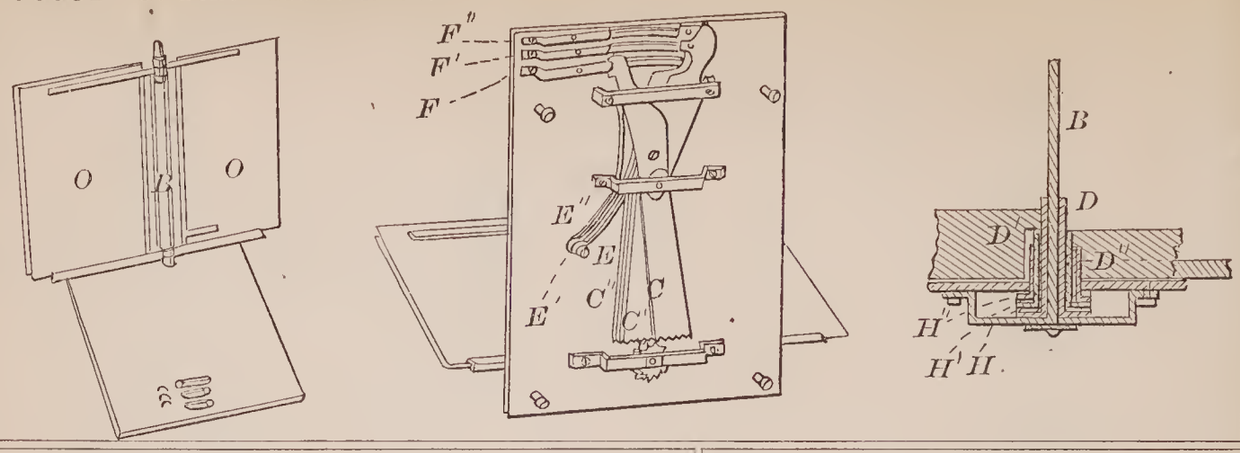
76549—G. G. Taylor—*Match Stand.*



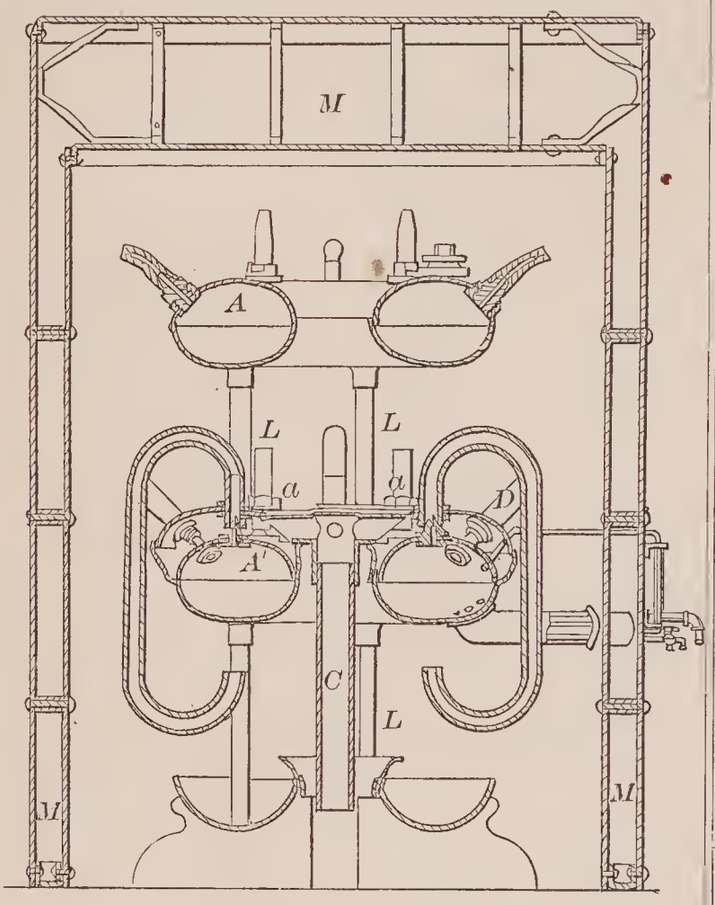
76550—T. H. Tears—*Horse Hay Fork.*



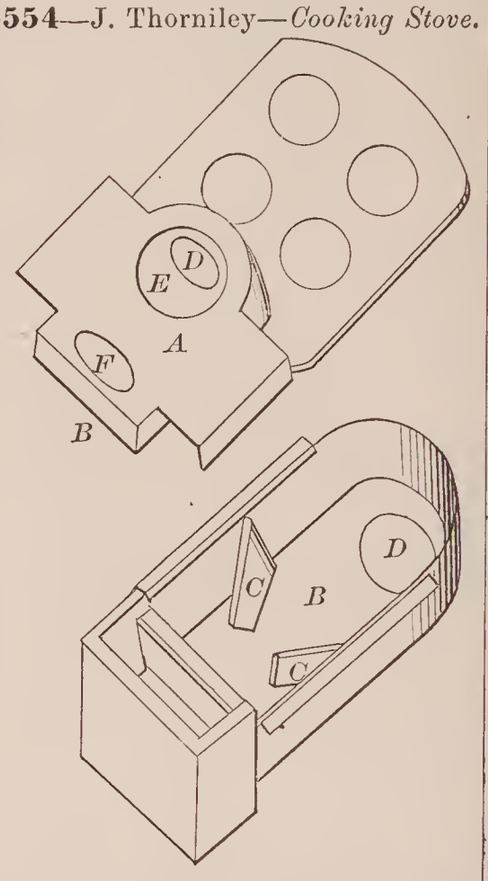
76551—G. Tefft—*Music Rack.*



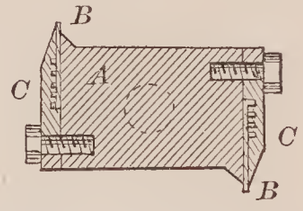
76552—F. W. Thayer—*Hydro-Carbon Burner.*



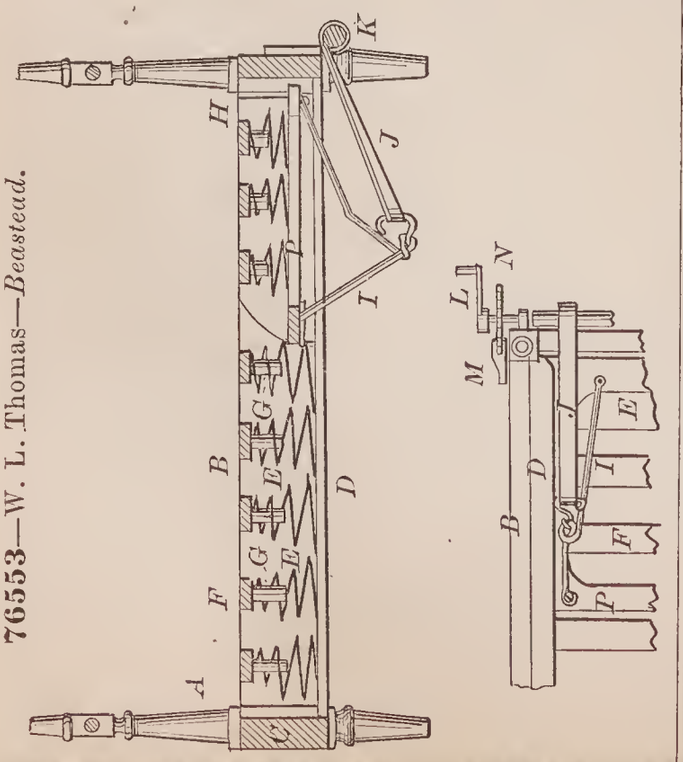
76554—J. Thorniley—*Cooking Stove.*



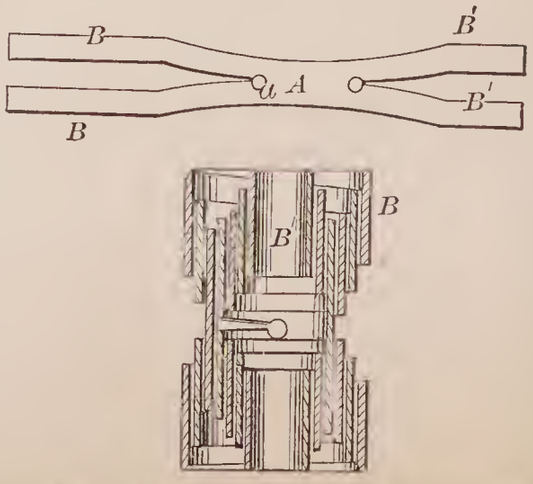
76556—T. Tostevin—*Cutter Head for Planing Machines.*



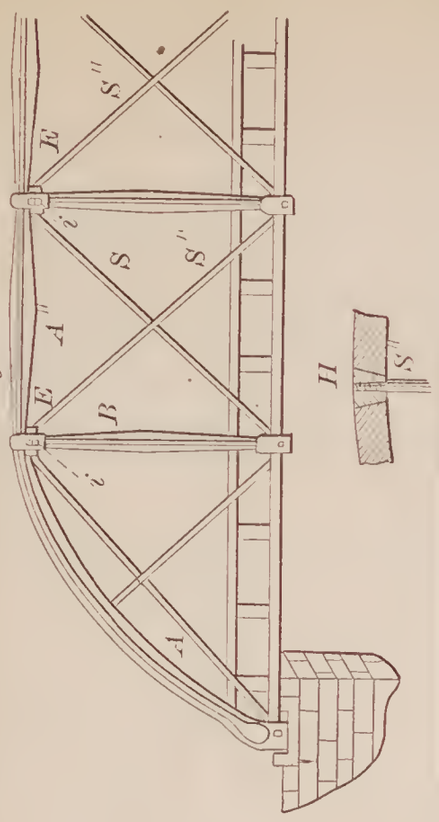
76553—W. L. Thomas—*Beastead.*



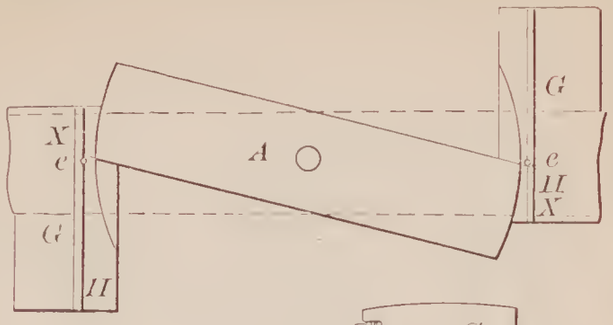
76557—J. Trent—*Volute Spring.*

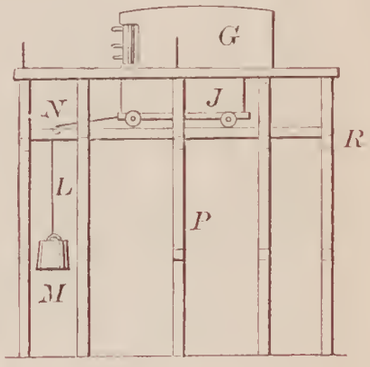


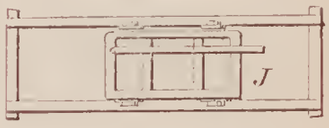
76558—L. E. Truesdell—*Bridge.*



76560—J. B. Valliquette—*Bridge.*

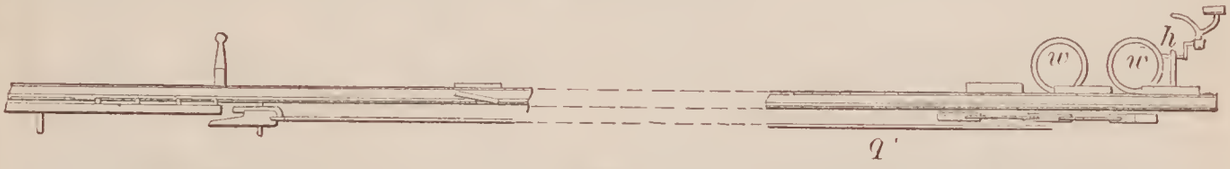




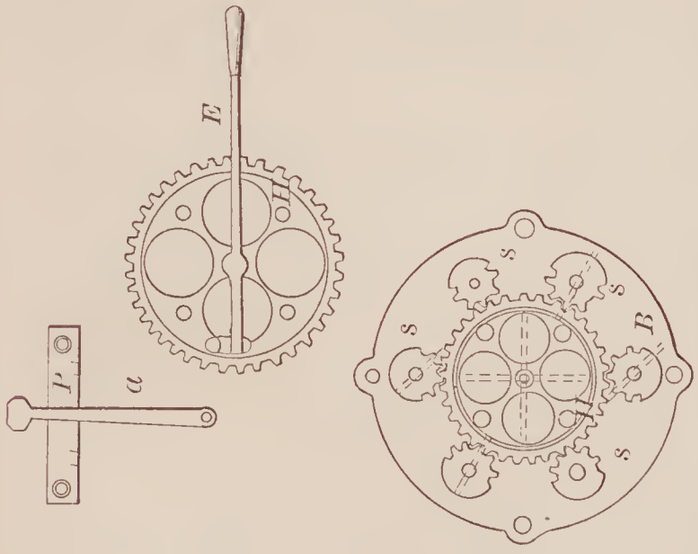


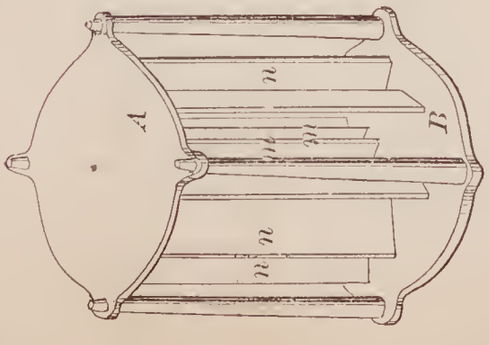
76562—S. Vanstone—*Chain Link.*

76559—A. C. Twining—*Railway Signal and Alarm.*

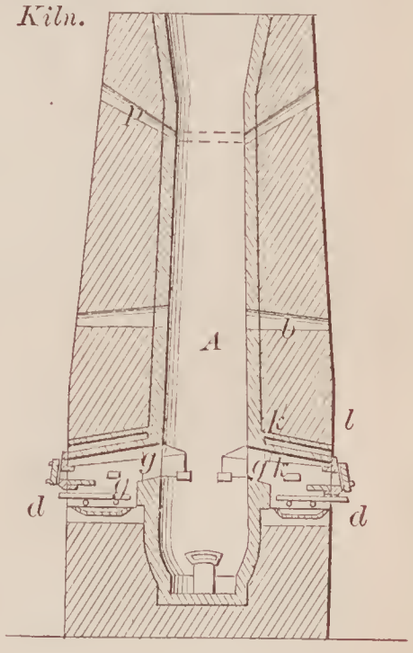


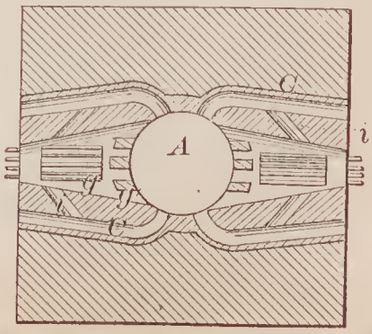
76561—J. H. Van Nortwick—*Wind Mill.*



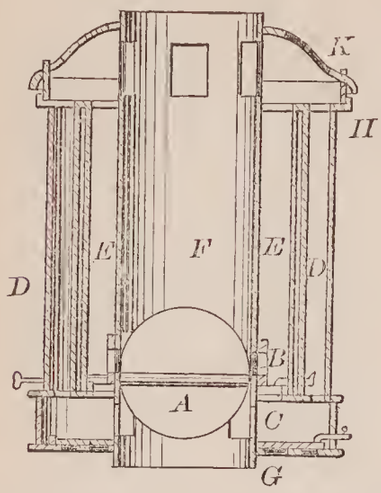


76563—M. Verhoeven—*Lime Kiln.*

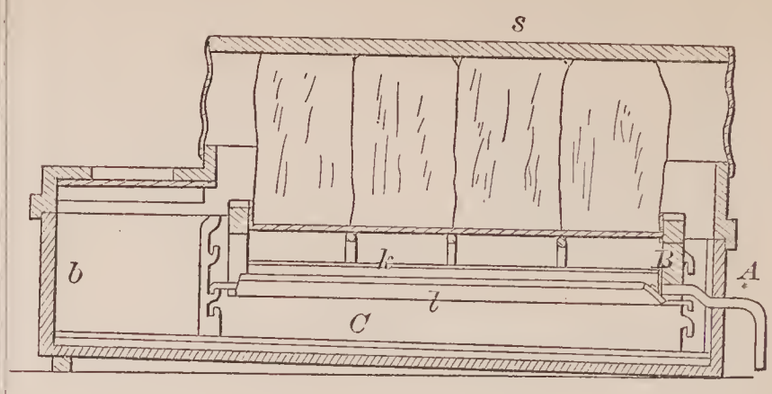




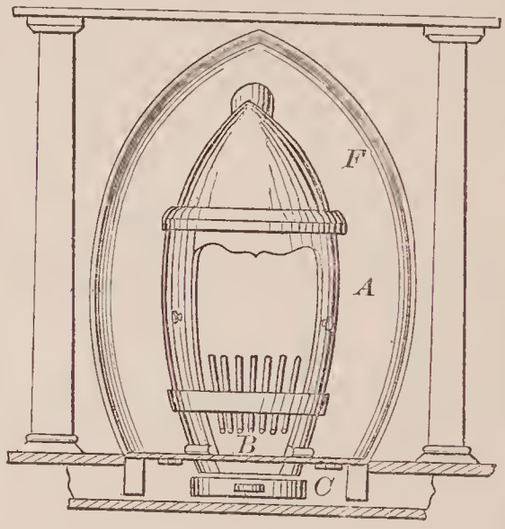
76564—J. Voegtle—*Stove Drum.*



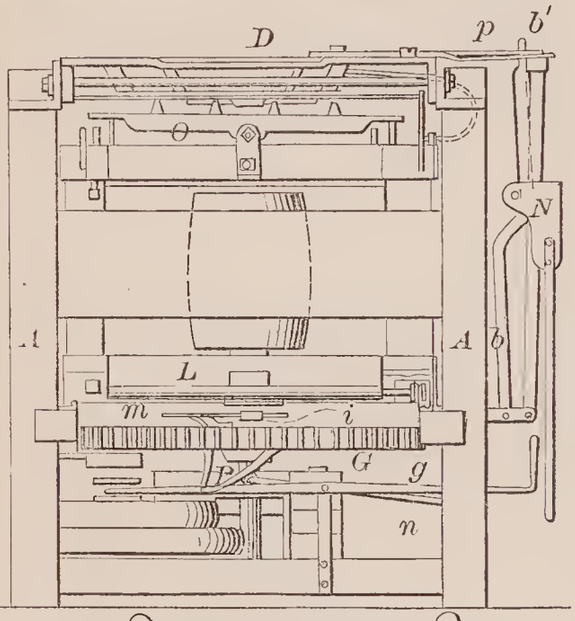
76568—J. S. Waterman—*Corpse Preserving Case.*

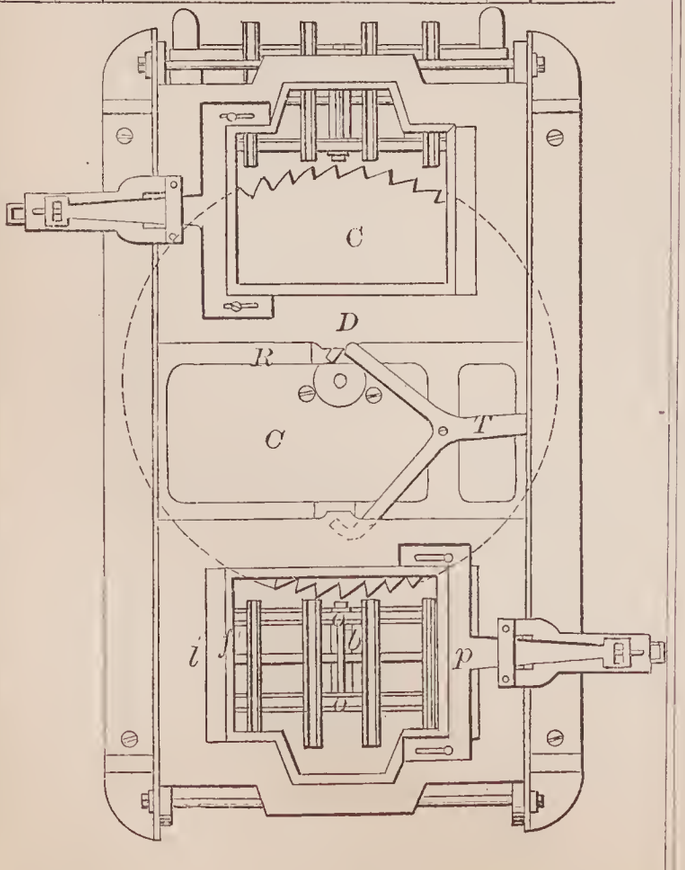


76565—F. Walker—*Coal Stove.*

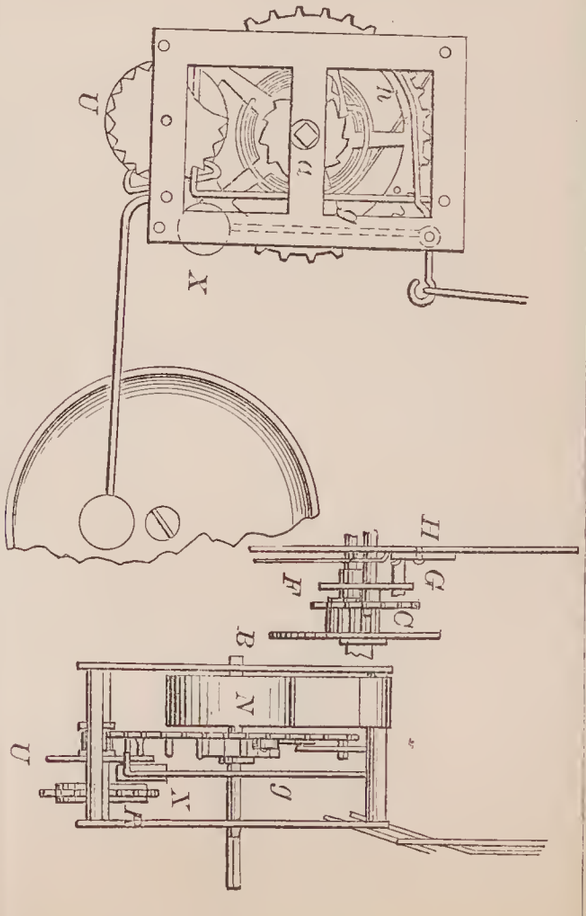


76566—W. H. Walker—*Shingle Machine.*

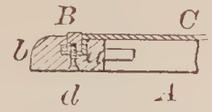




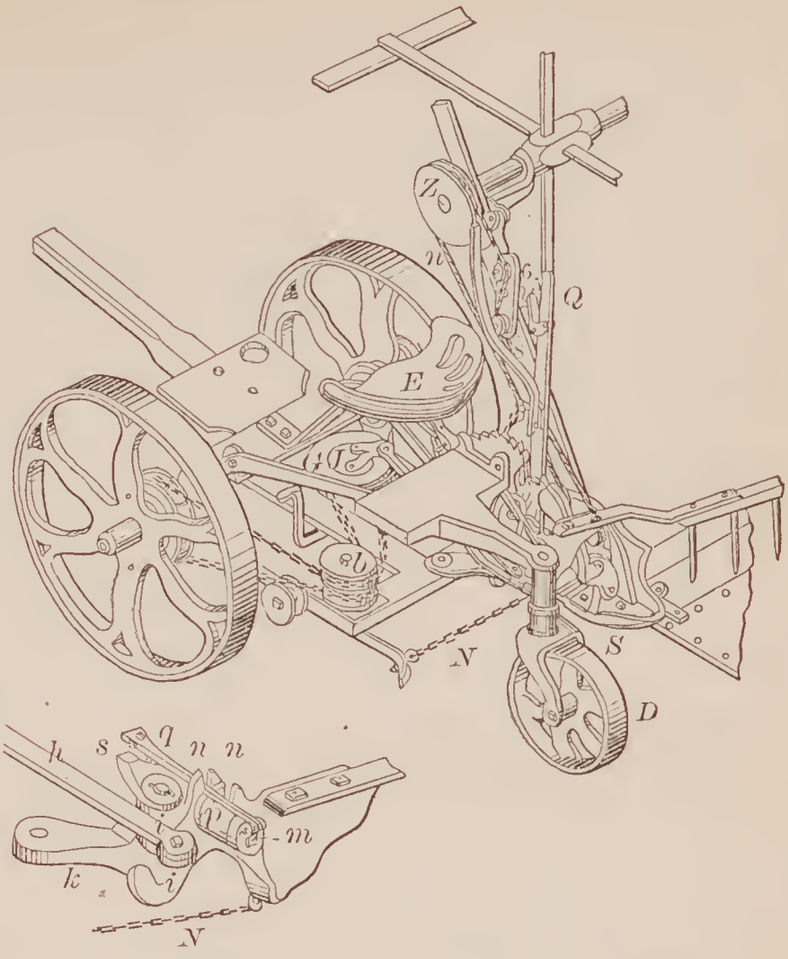
76567—C. H. Warner—*Clock Alarm.*



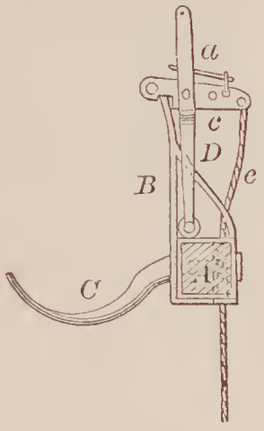
76569—G. A. Watkins—*Chair Seat.*



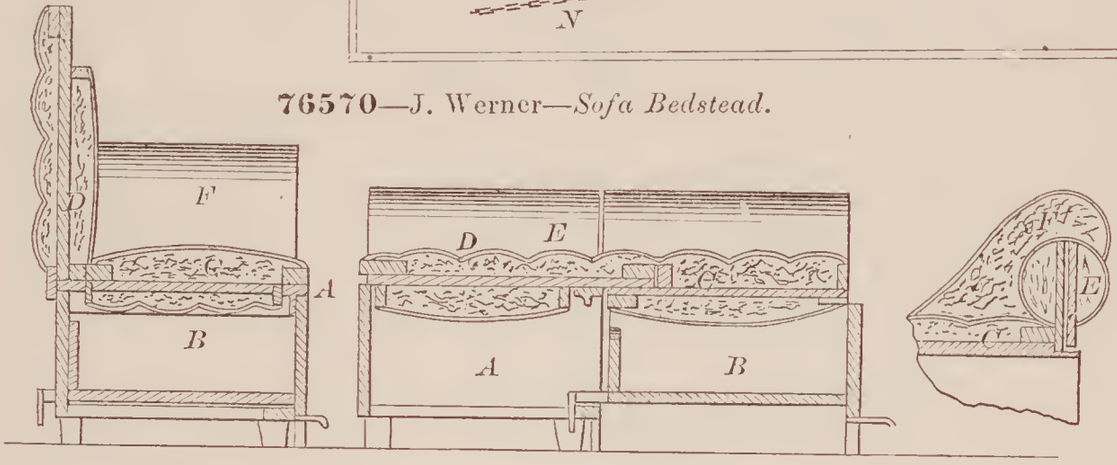
76571—C. Wheeler Jr.—*Harvester.*



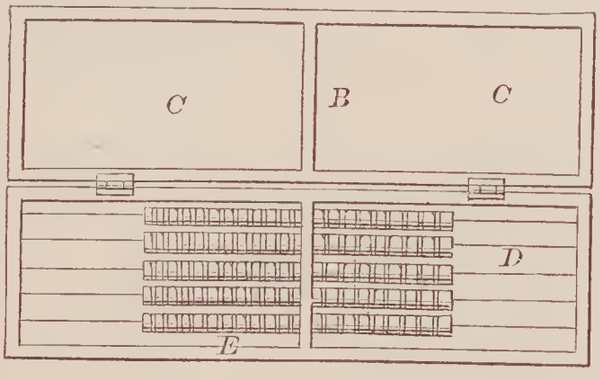
76573—J. H. Wilder—*Horse Hay Fork.*



76570—J. Werner—*Sofa Bedstead.*



76572—D. Wight—*Top Game Board.*



76574—S. H. Wood—*Die for Pliers.*

Fig. 5

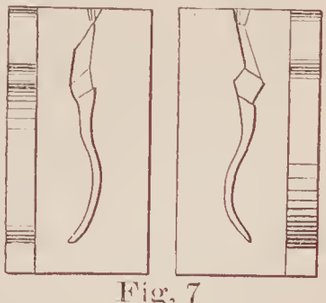
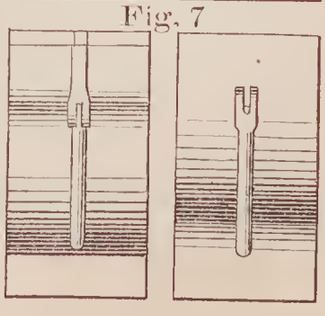
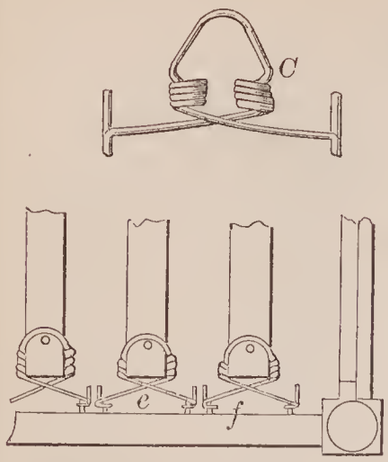
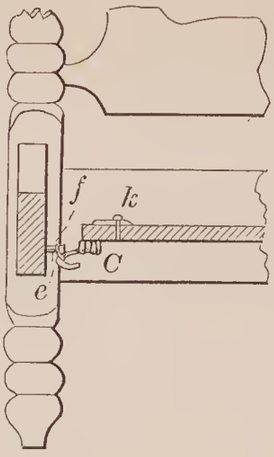


Fig. 7

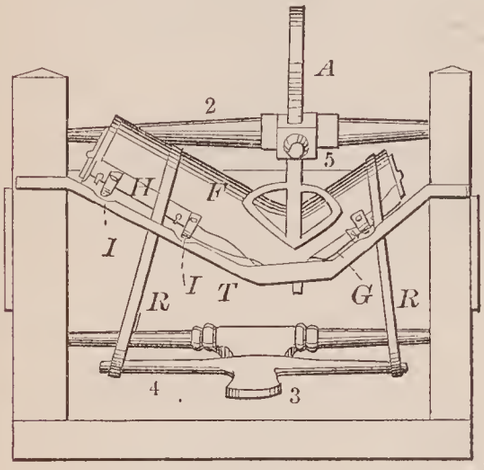


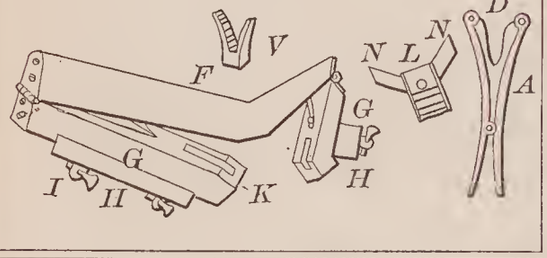
76575—A. W. Wright—*Spring Bed Bottom.*



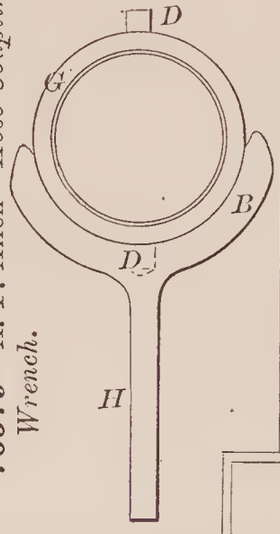


76576—R. A. York—*Crimping Machine.*

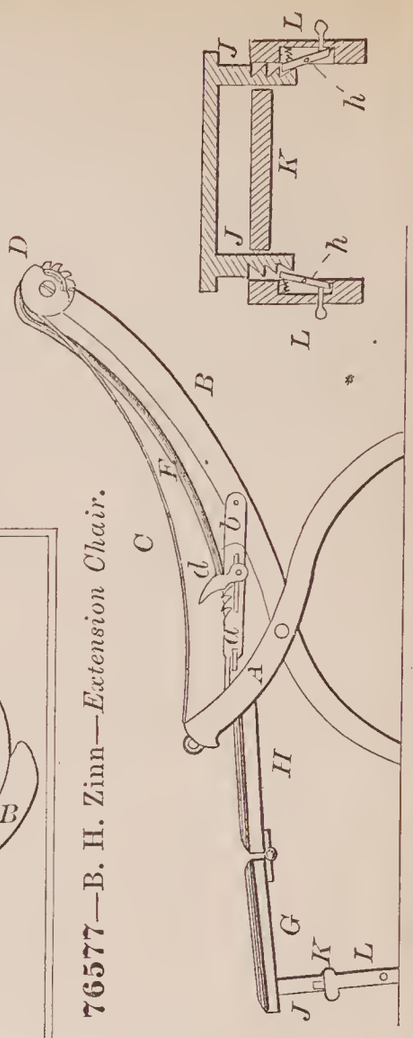




76579—A. F. Allen—*Hose Coupling Wrench.*

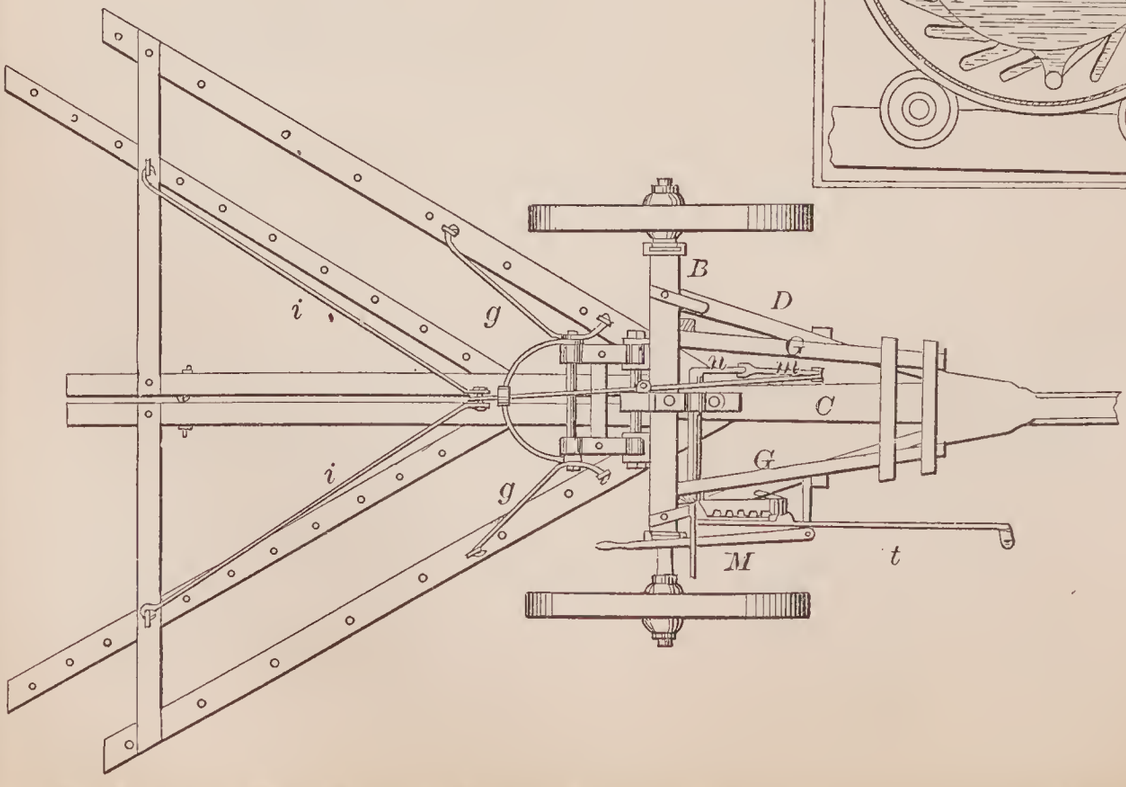


76577—B. H. Zinn—*Extension Chair.*

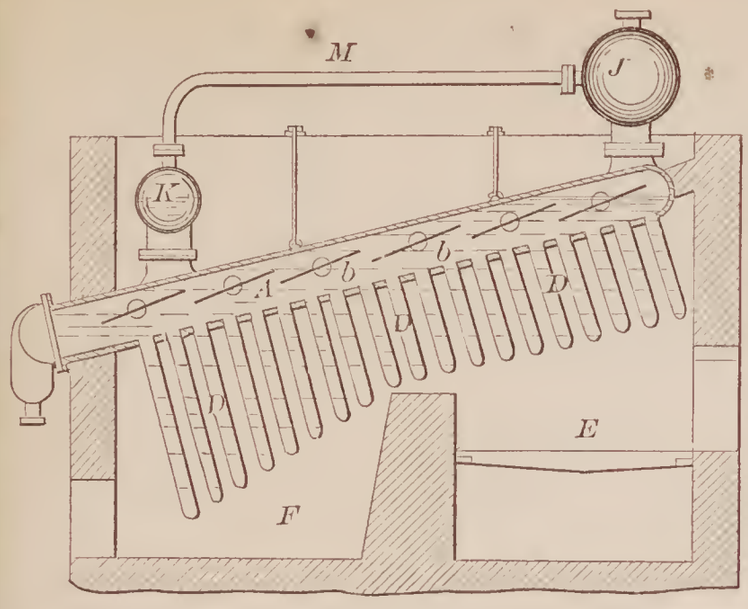


76581—J. F. Allen—*Decarbonizing Iron.*

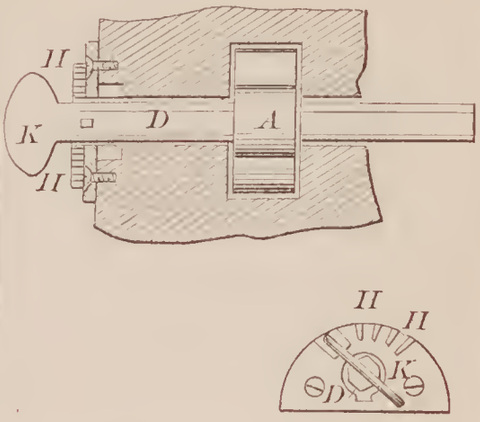
76578—S. Conrad—*Cultivator and Harrow.*



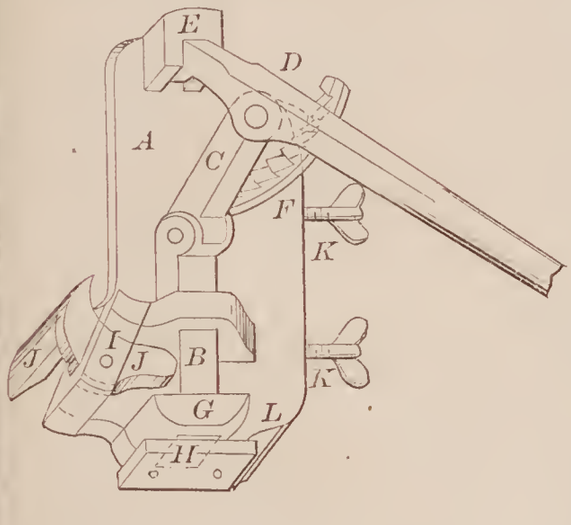
76580—J. F. Allen—*Steam Generator.*



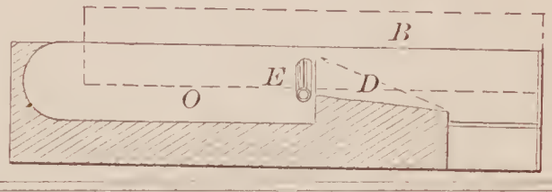
76582—F. Ball—*Window Sash Sash Stop.*



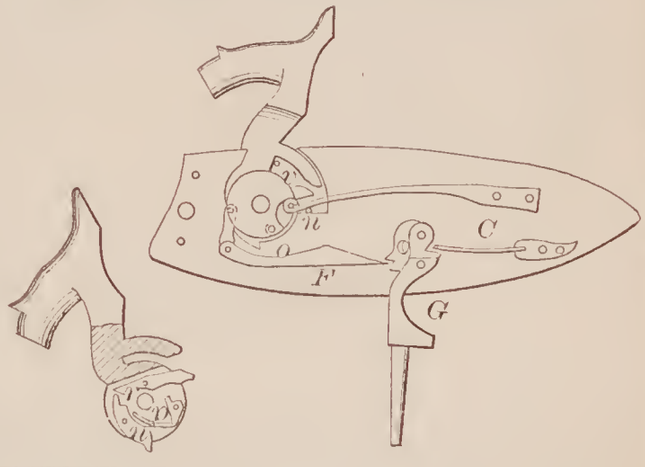
76583—G. E. Banner—*Floor Clamp.*



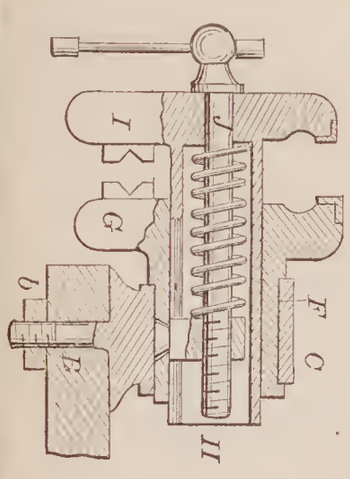
76585—S. P. Bartley—*Steam Boiler Furnace.*

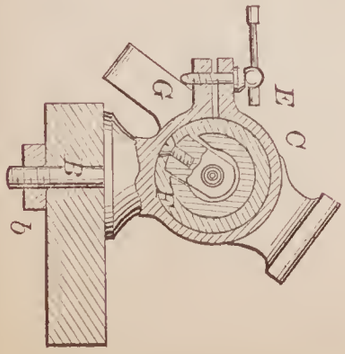


76587—Belden & Crabtree—*Gun Lock.*

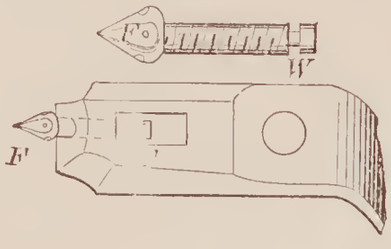


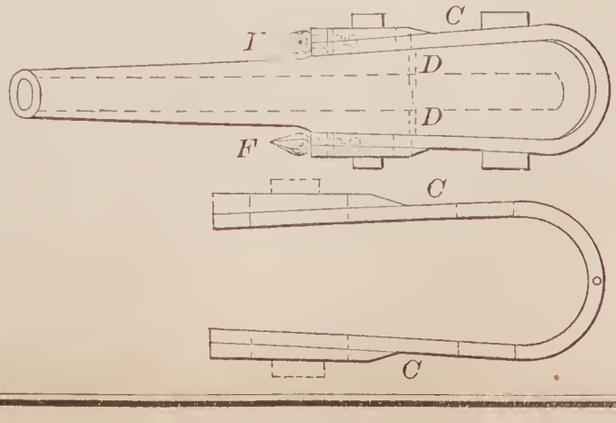
76584—C. Barnes—*Vise.*



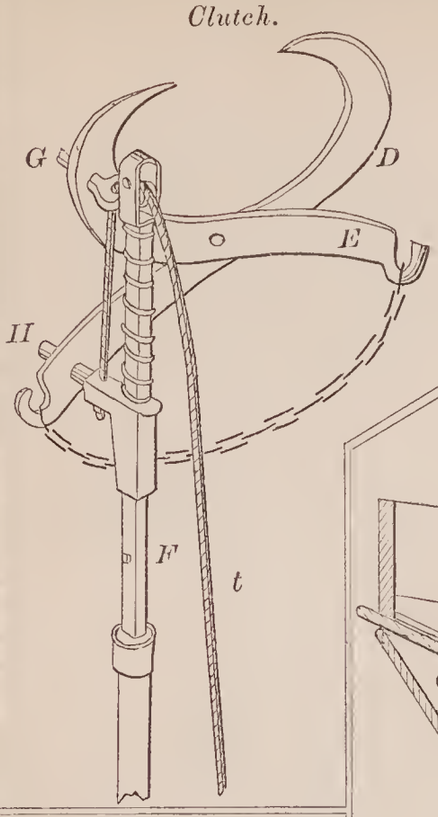


76586—P. R. Beaupre—*Ordnance.*

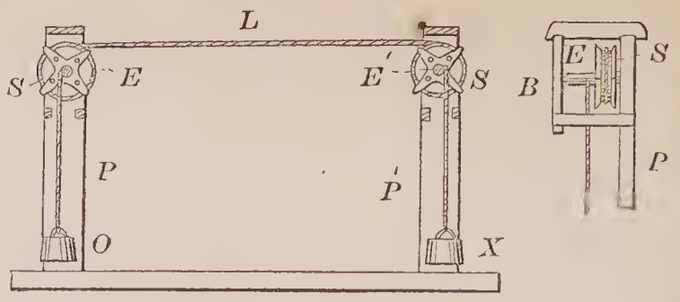




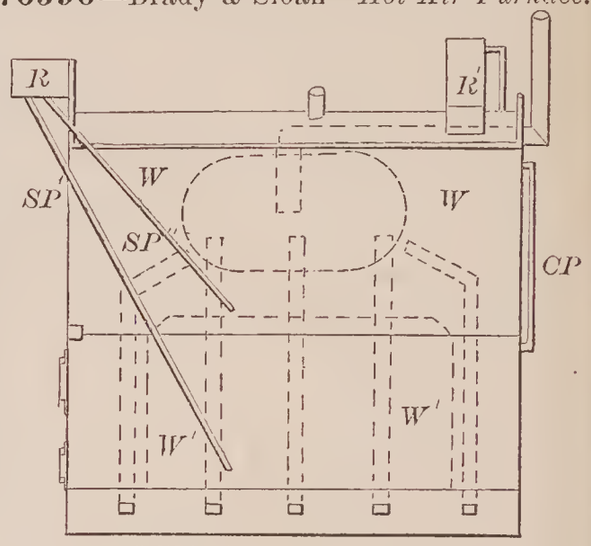
76588—C. C. Blodgett—*Elevating Clutch.*



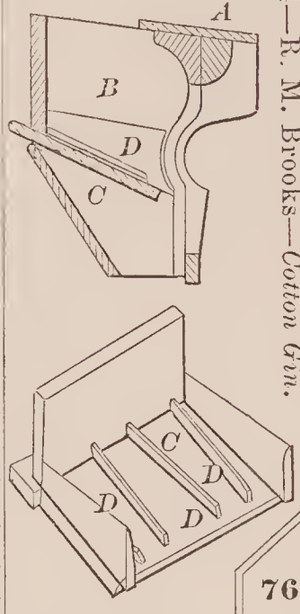
76589—H S. Boynton—*Adjustable Clothes Dryer.*



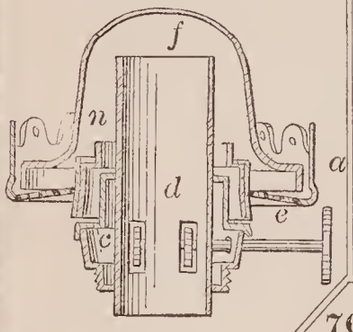
76590—Brady & Sloan—*Hot Air Furnace.*



76594—R. M. Brooks—*Cotton Gin.*

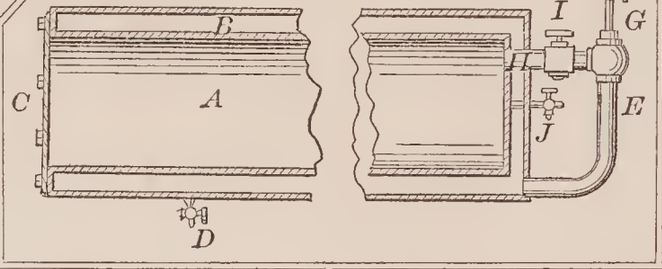


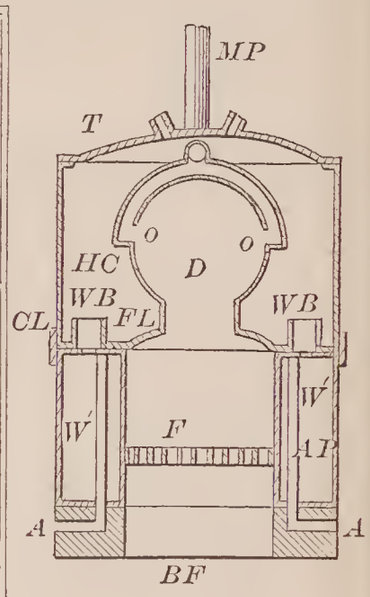
76592—J. W. Brimblecorn—*Lamp Burner.*



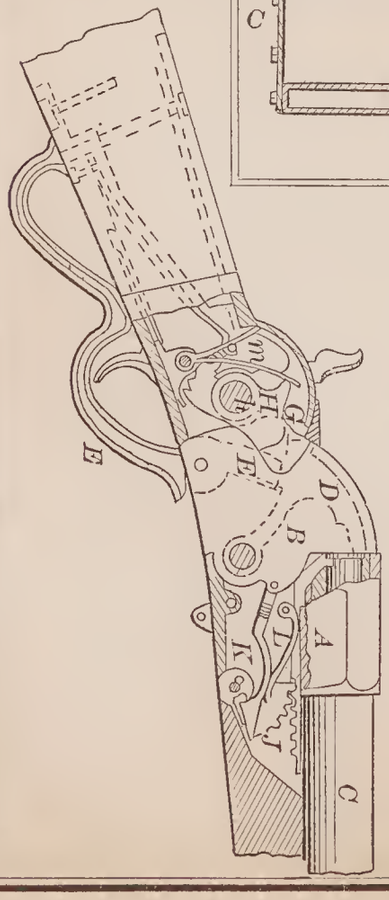
76599—H. L. Butts—*File.*

76591—J. Brakeley—*Lumber Dryer.*

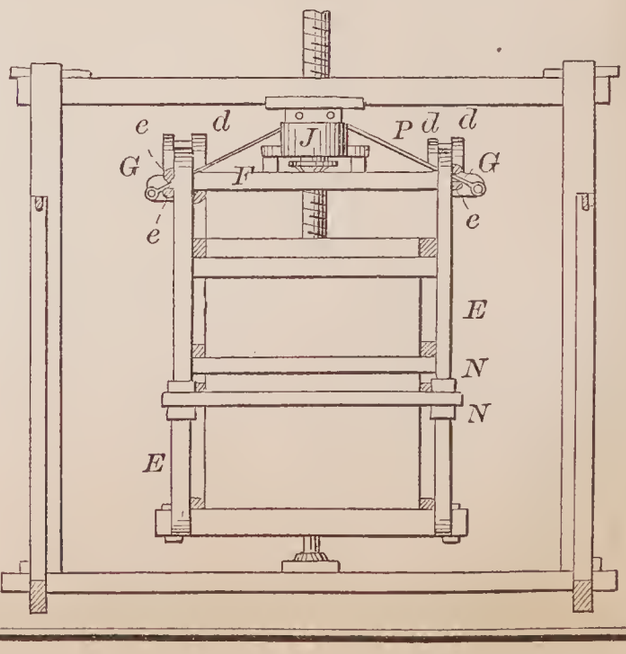




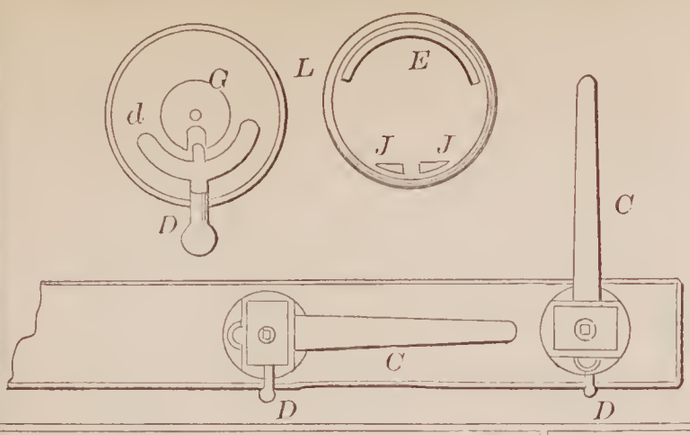
76595—J. Broughton—*Fire Arm.*



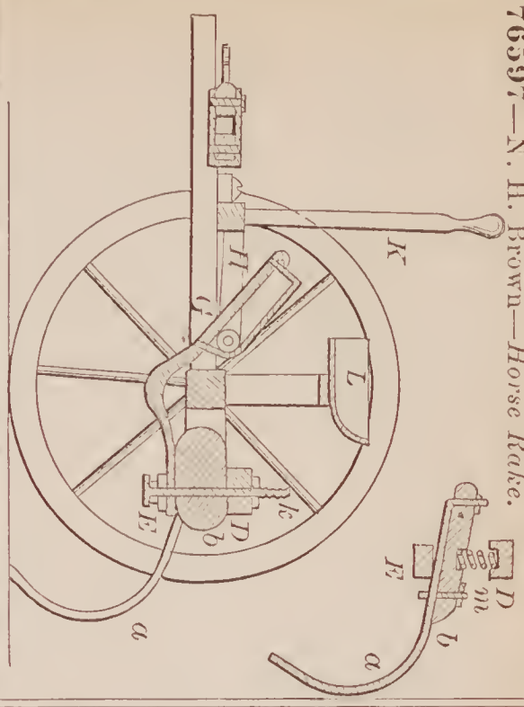
76593—R. M. Brooks—*Cotton Press.*



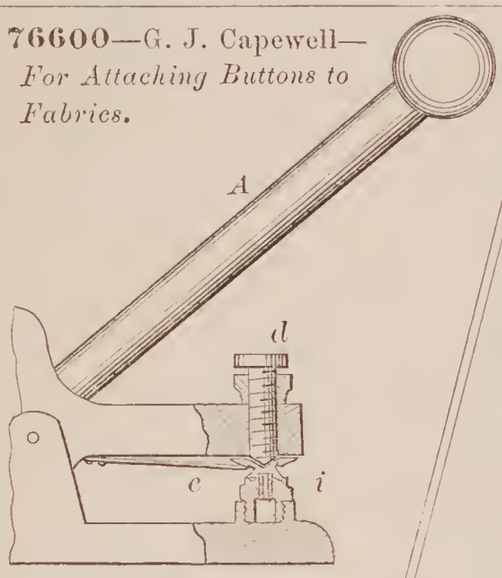
76596—G. A. Brown—*Car Stake Holder.*



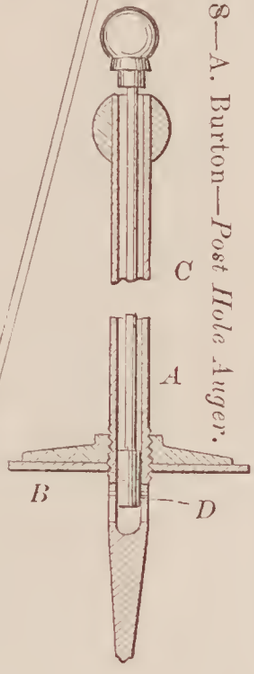
76597—N. H. Brown—*Horse Rake.*



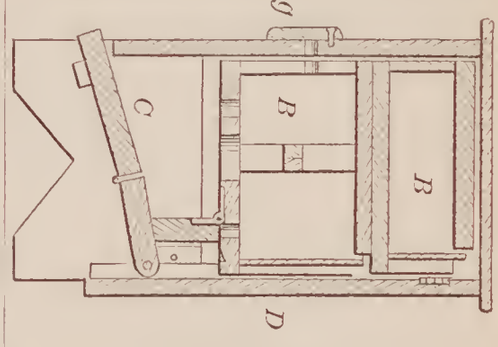
76600—G. J. Capewell—*For Attaching Buttons to Fabrics.*



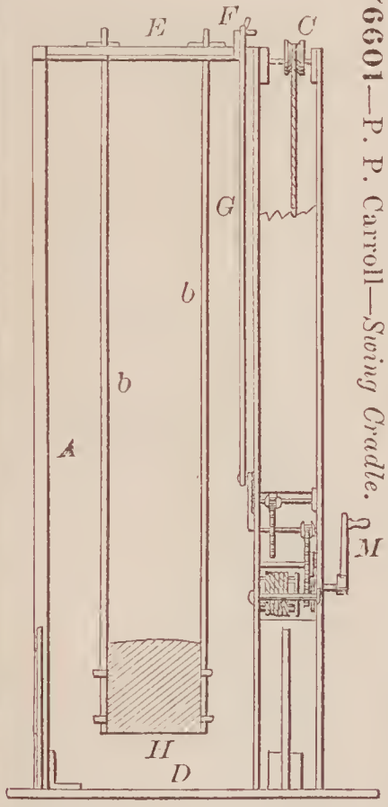
76598—A. Burton—*Post Hole Auger.*



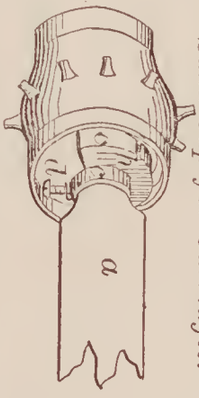
76602—Cassel & Quin—*Beehive*



76601—P. P. Carroll—*Swing Cradle.*



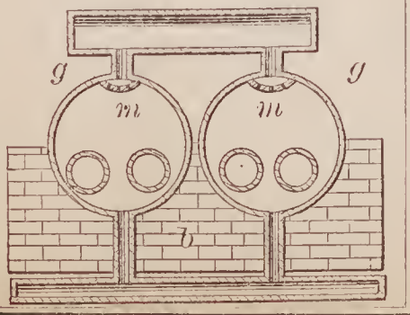
76605—Colebum & Stanara—*Sand Cup for Carriages.*



76604—S. E. Chase—*Loom Shuttle.*

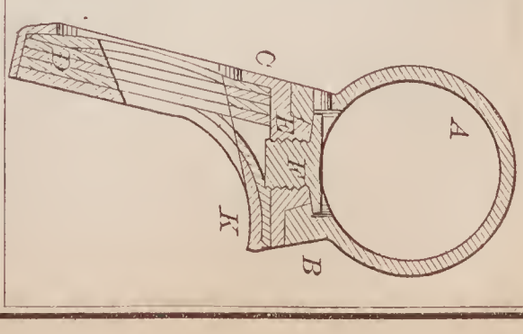
76603—J. Charlton—*Rubber for Washing Clothes.*

76607—B. Crawford—*Steam Generator.*

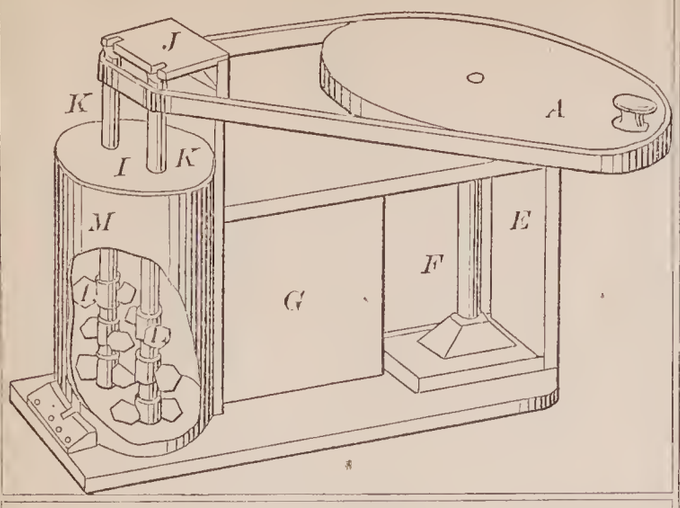


76608 L. P. Curtis—*Leather Trimmer.*

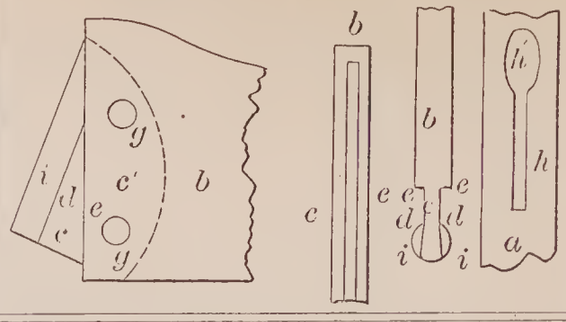
76609—Dow & Wilcox—*Neck Yoke.*



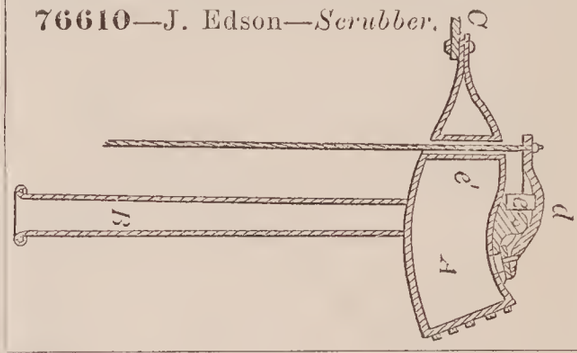
76606—A. J. Conner—*Churn.*



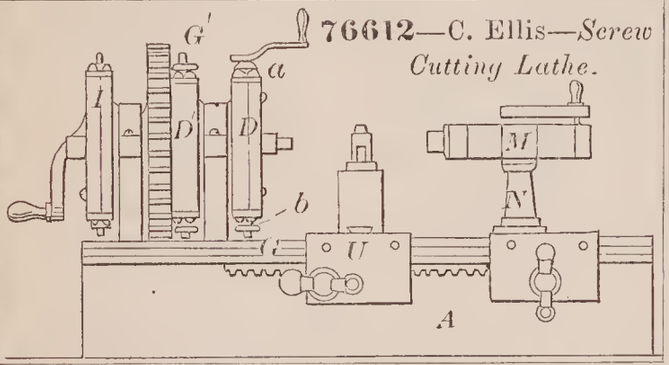
76611—W. H. Elliot—*Mortise and Tenon for Bedsteads*



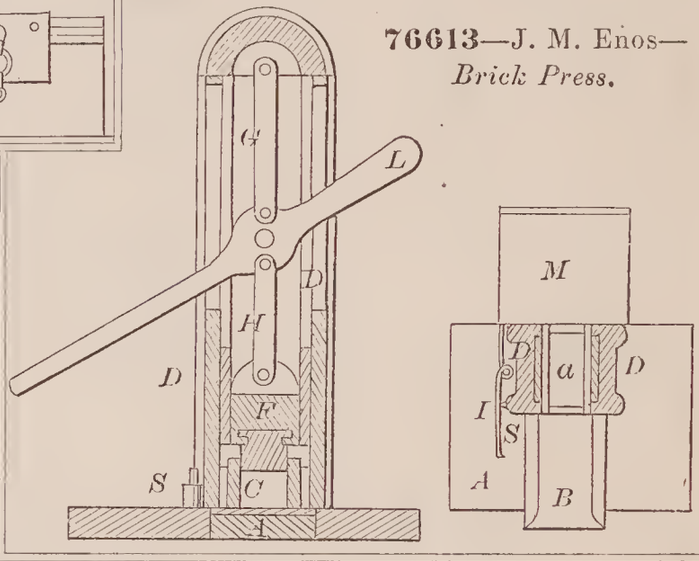
76610—J. Edson—*Scrubber.*



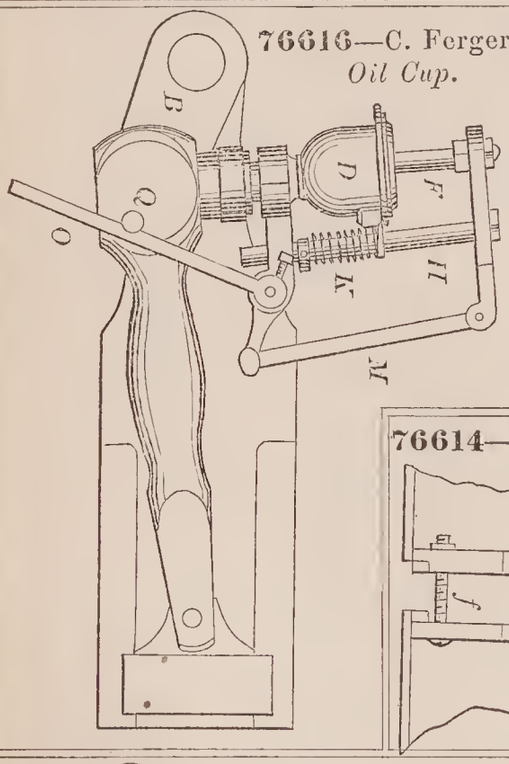
76612—C. Ellis—*Screw Cutting Lathe.*



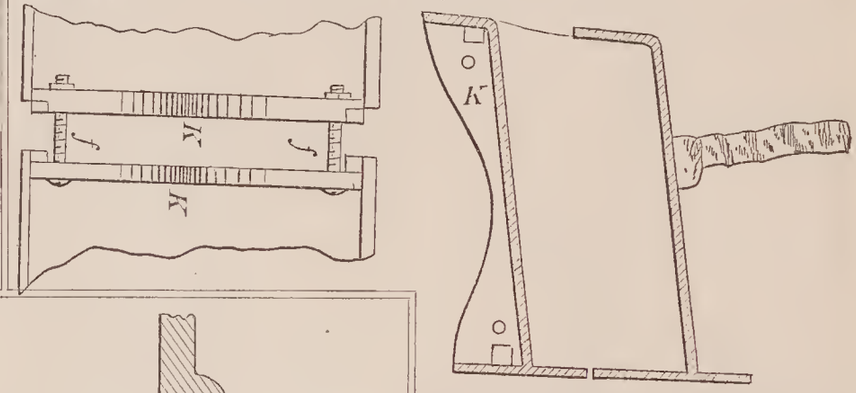
76613—J. M. Enos—*Brick Press.*



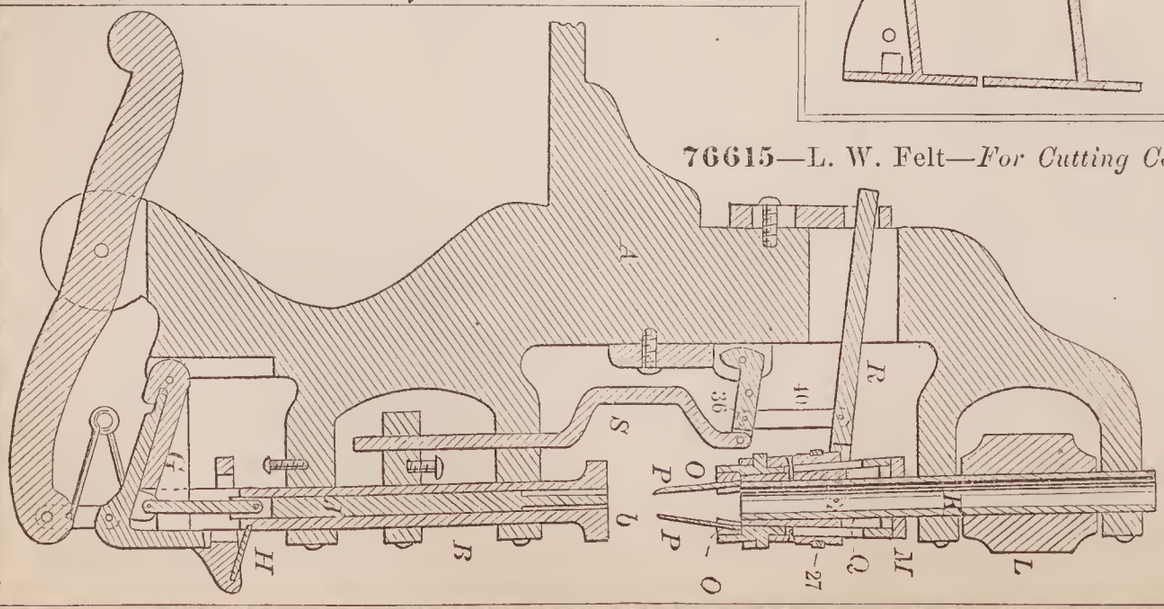
76616—C. Ferger—*Oil Cup.*



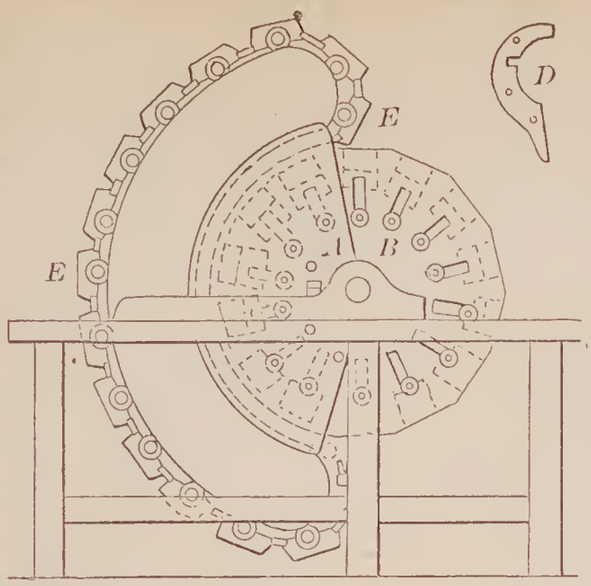
76614—Faurot & Harris—*Curb for Street.*



76615—L. W. Felt—*For Cutting Corks.*

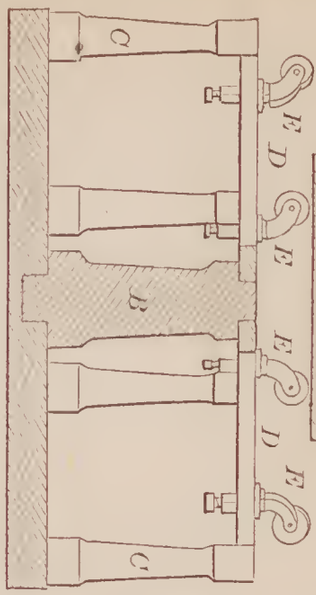


76617—G. B. Fisher—*Brick Machine.*

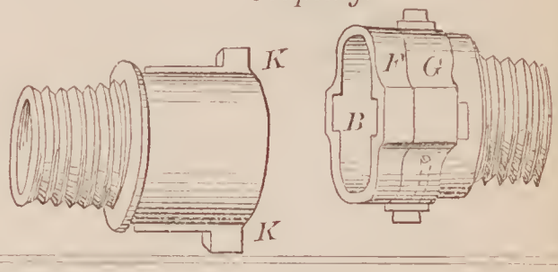


76618—I. Fisher—*Rasp.*

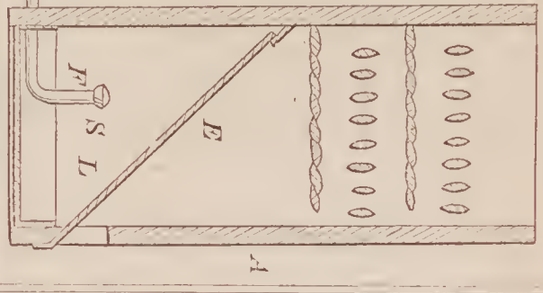
76619—E. Fitzhenry—*For Dressing and Scouring Leather.*

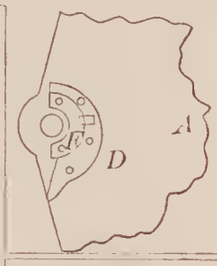


76622—R. J. Gaines—*Hose Coupling.*

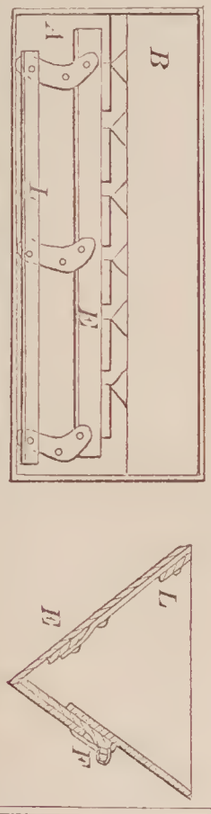


76624—J Geemen—*For Sprouting Malt*

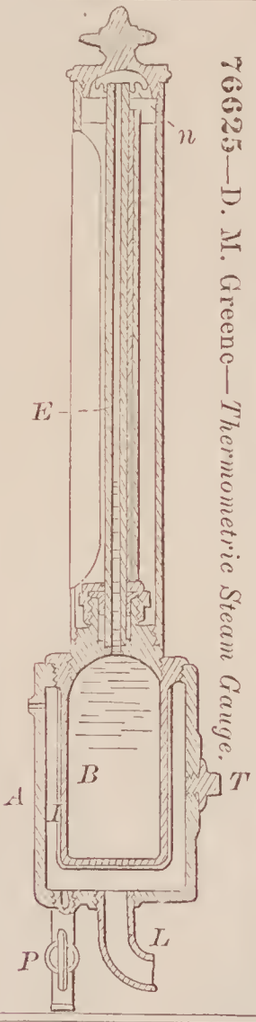




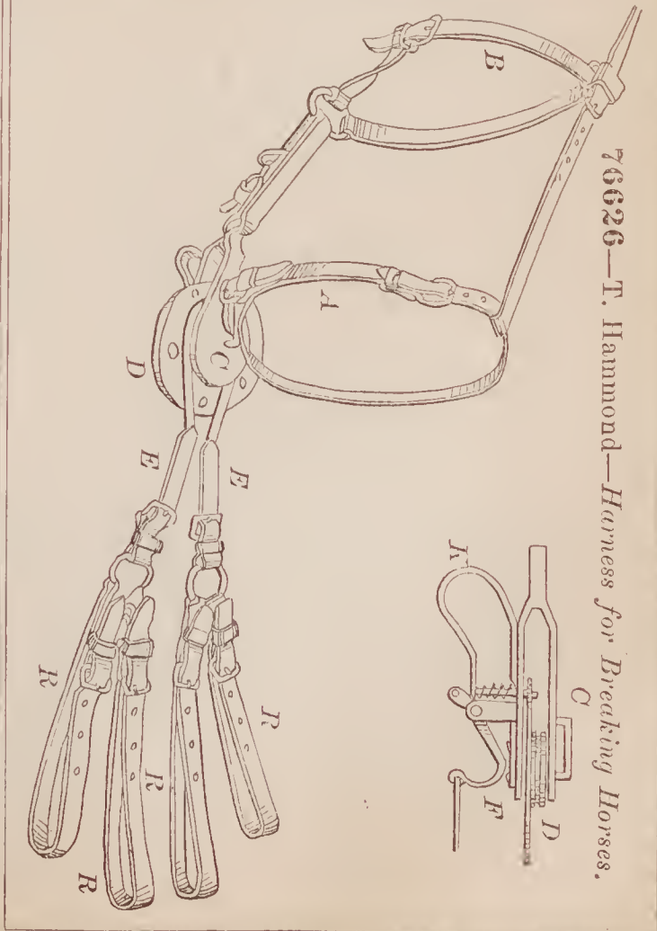
76621—N. Foster—*Guano Distributor.*



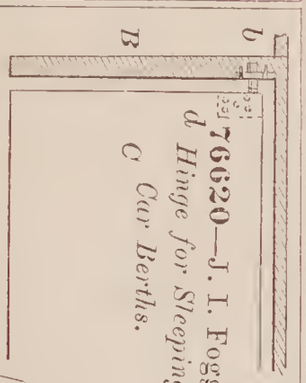
76625—D. M. Greene—*Thermometric Steam Gauge.*



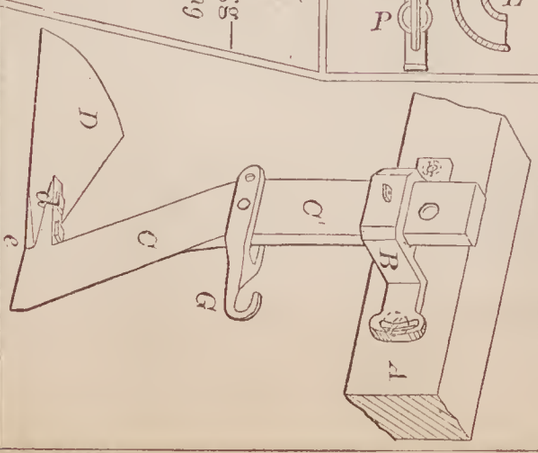
76626—T. Hammond—*Harness for Breaking Horses.*



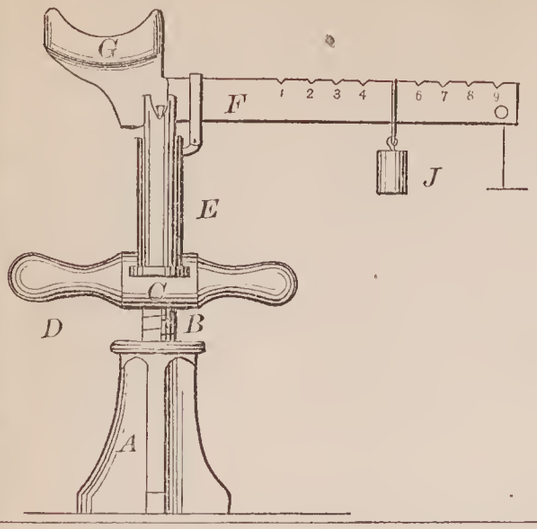
76620—J. I. Foggs—
d Hinge for Sleeping
C Car Berths.



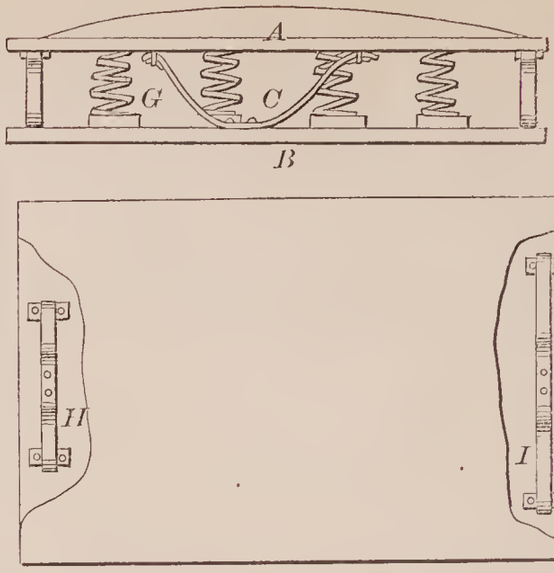
76627—C. R. Hartman—*Subsoil Plow.*



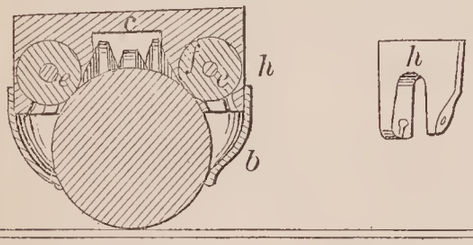
76628—H. M. Hervey—*Jack Scale.*



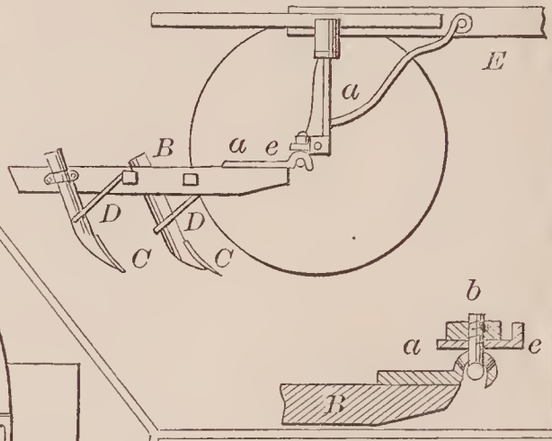
76633—B. Hitchcock—*Bed Bottom.*



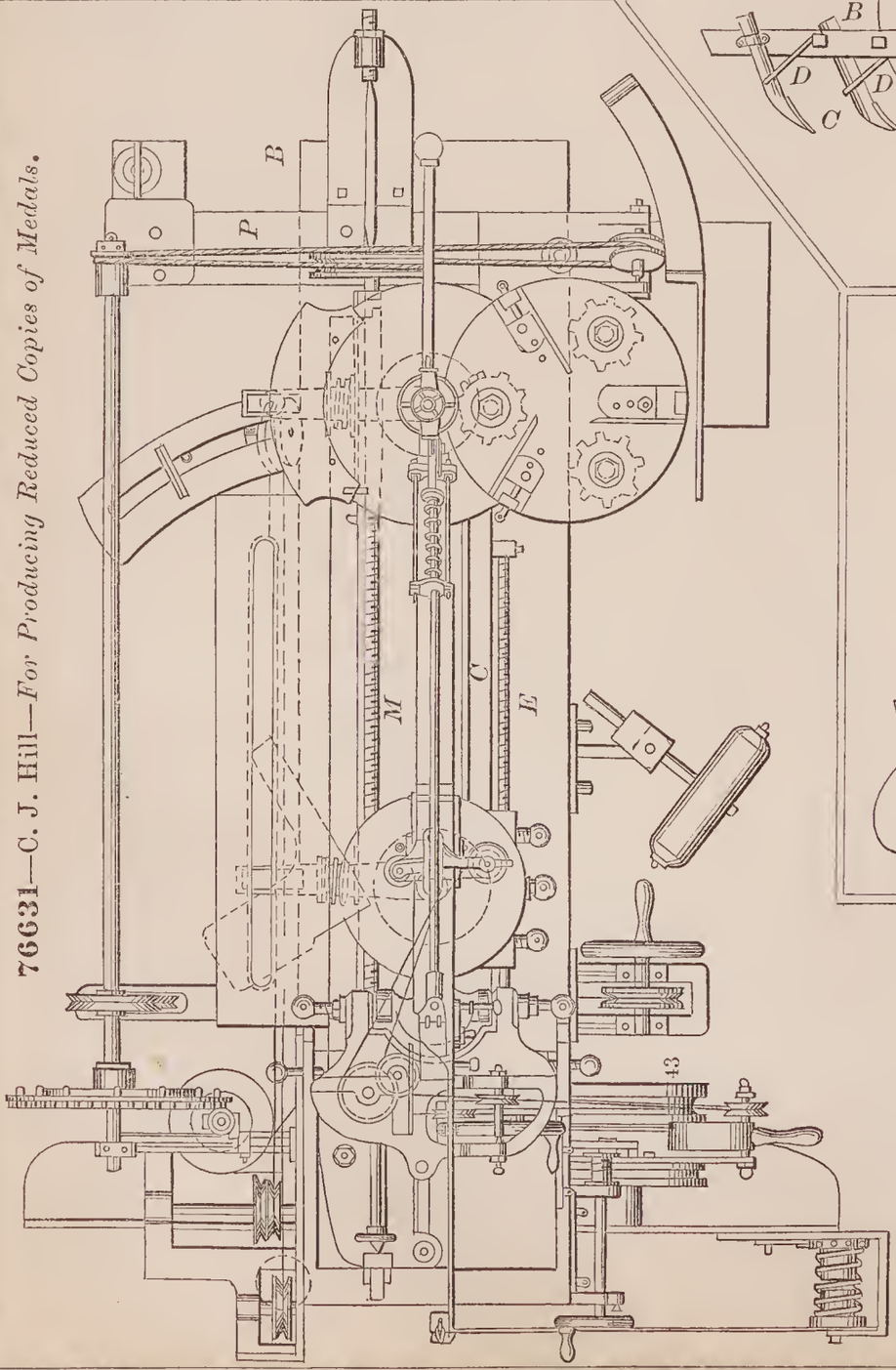
76630—Hickok & Clement—*Ball Caster.*



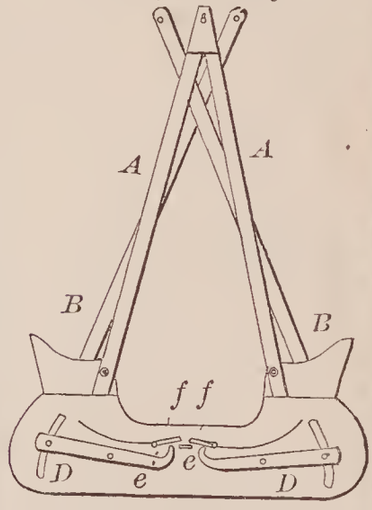
76634—L. W. Holland—*Cultivator.*



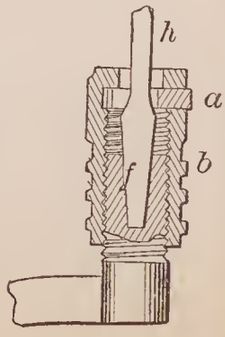
76631—C. J. Hill—*For Producing Reduced Copies of Medals.*



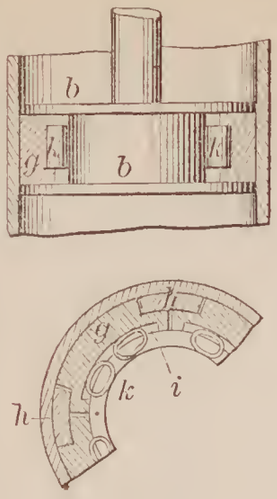
76629—W. Hewett—*Swing Carriage.*



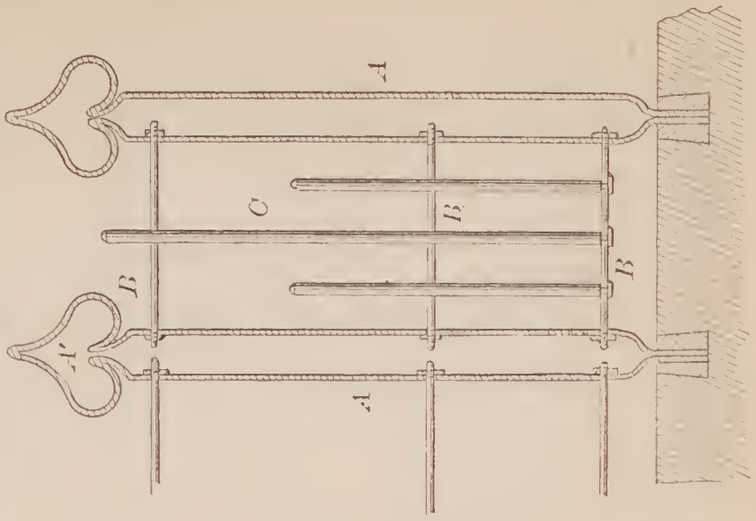
76632—S. B. Hill—*Bit Brace.*



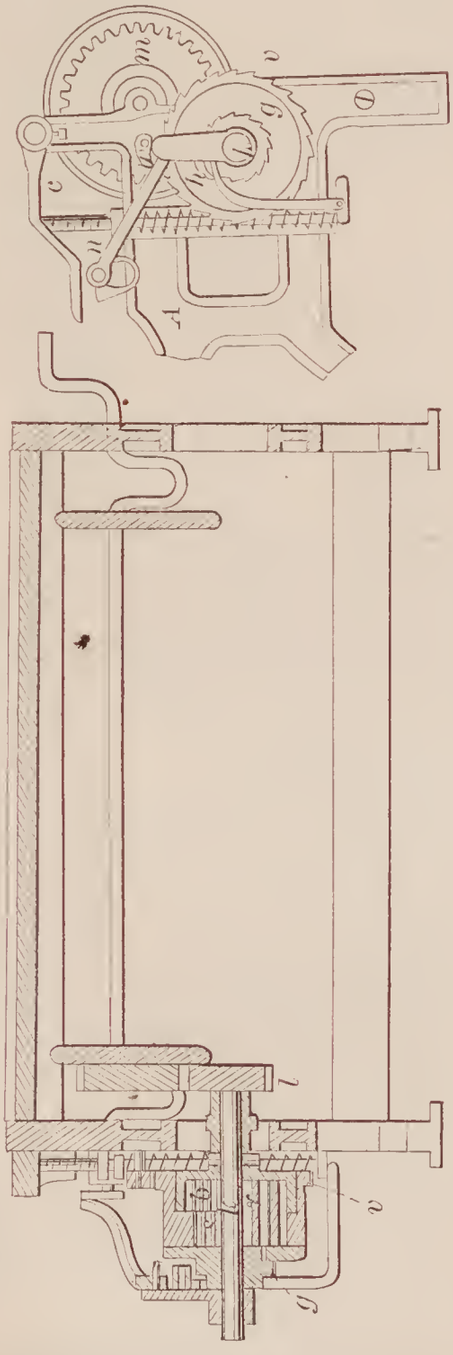
76635—H. S. Hopkins—*Pump Piston.*



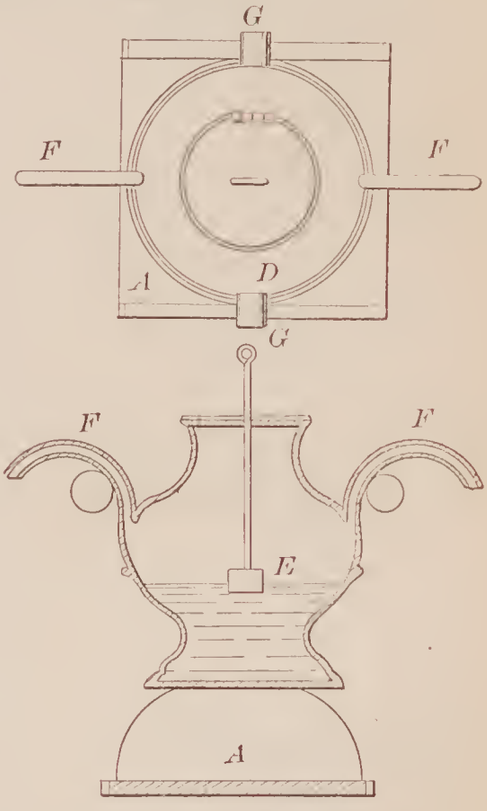
76637—M. Krumm—*Fence Post.*



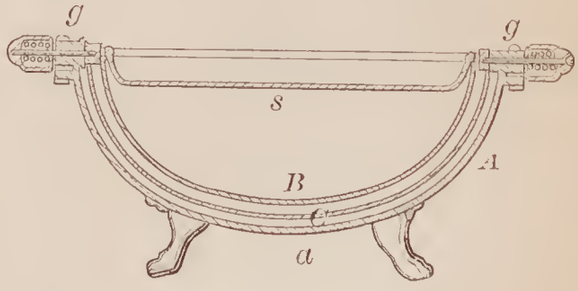
76636—D. Hussey—*Let-off Mechanism for Looms.*



76638—G. Lane—*Ice Pitcher.*



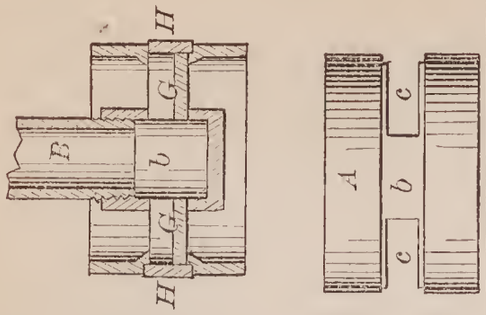
76639—N. Lawrence—*Butter Dish.*



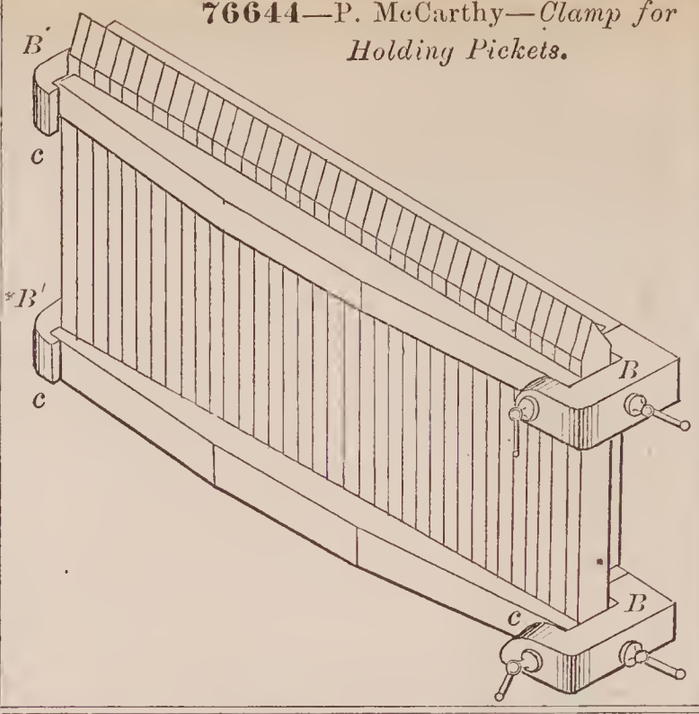
76640—A. H. Lewis—*For Fettering Horses.*

76642—P. Lull—*For Removing Hides from Animals.*

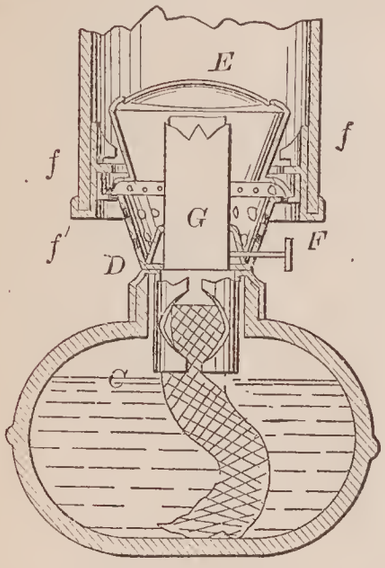
76643—S. G. Mason—*Pump Piston.*



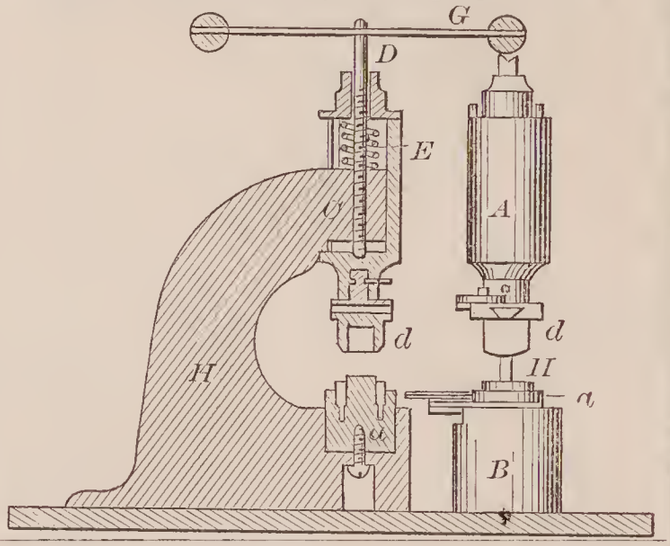
76644—P. McCarthy—*Clamp for Holding Pickets.*



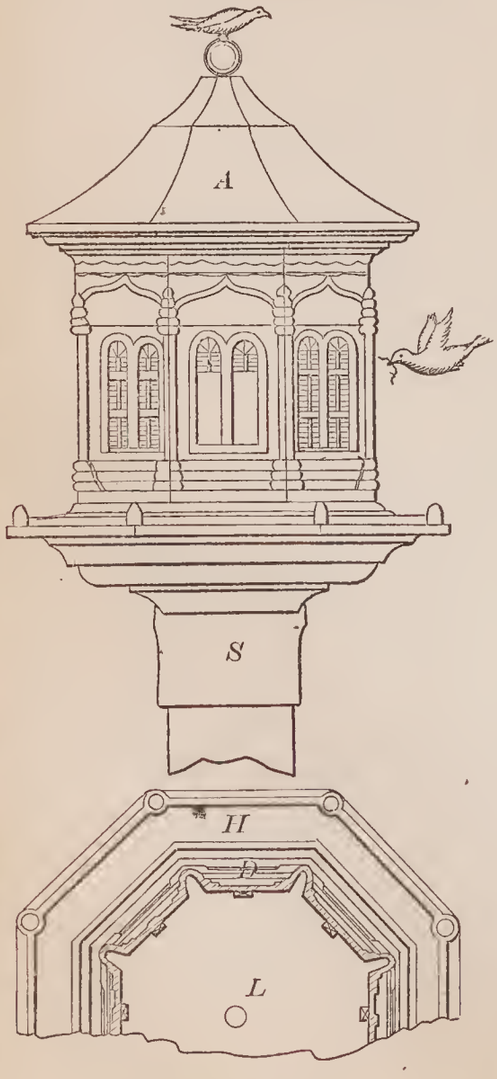
76645—W. C. McGill—*Lamp Burner.*



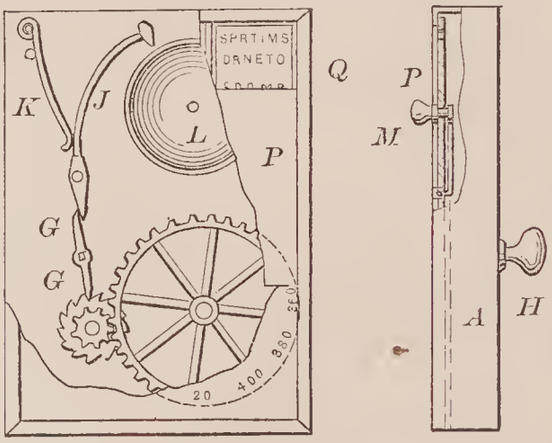
76647—Mead & Addy—*Stamping Press.*



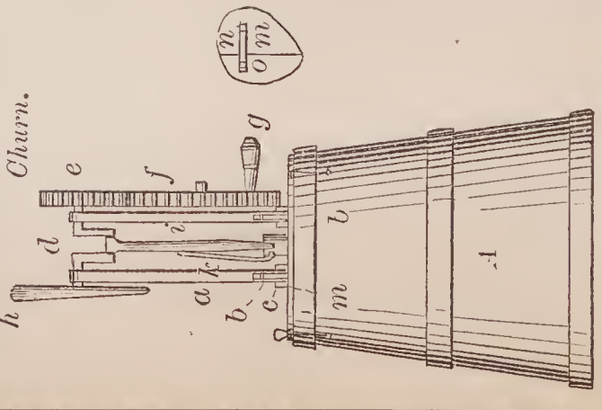
76648—H. Miller—*Bird House.*



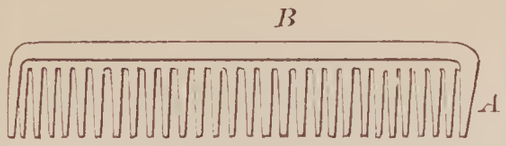
76646—W. C. McGill—*Conductors' Register.*



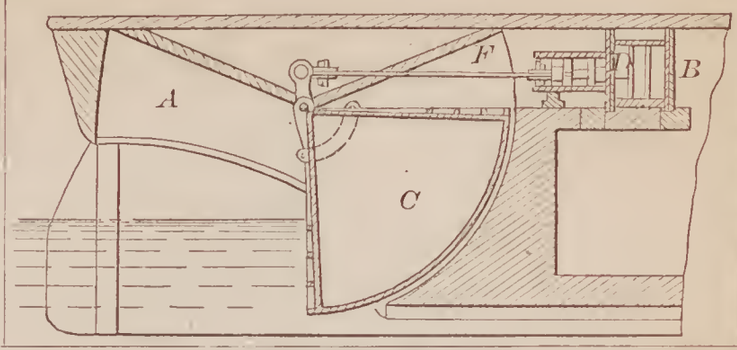
76649—Morse & Sawyer—*Churn.*



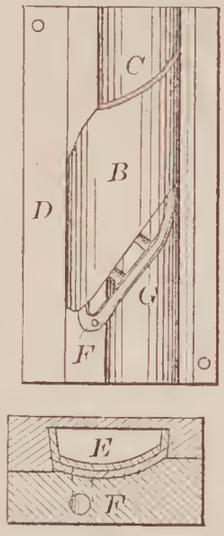
76650—J. P. Noyes—*Toilet Comb.*



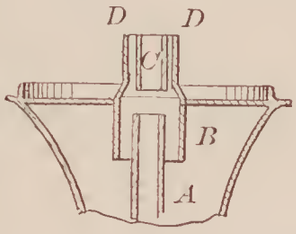
76651—C M. O'Hara—*Propeller.*



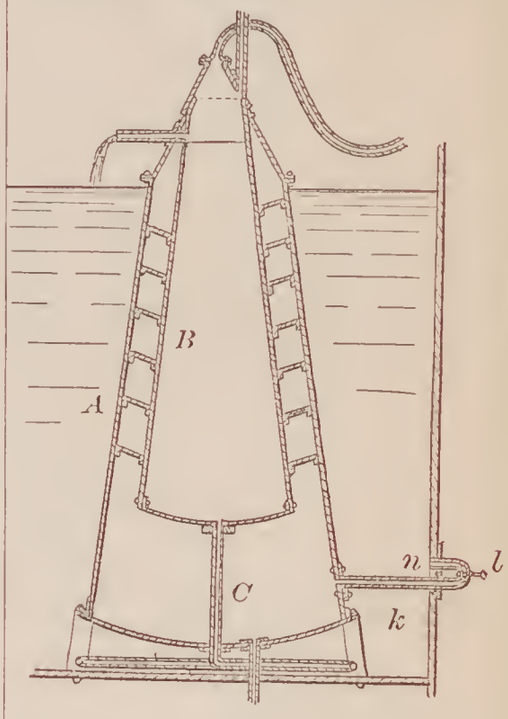
76652—J. Oliver—*Plow Mould Board.*



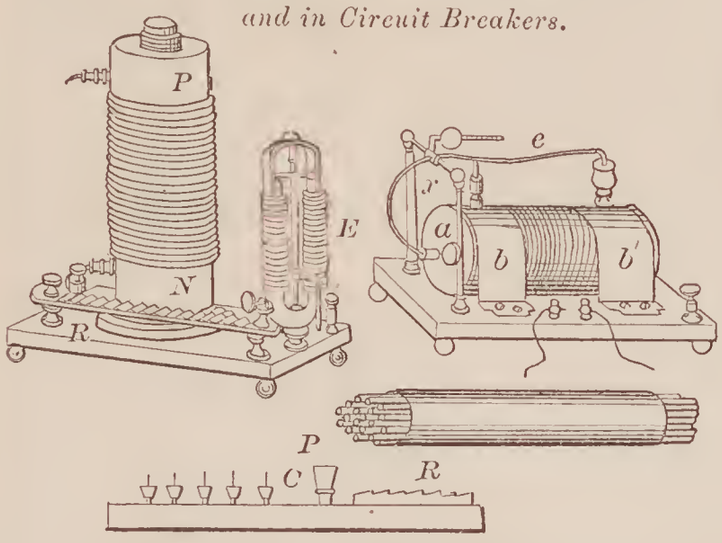
76653—G. K. Osborn—*Lamp Burner.*

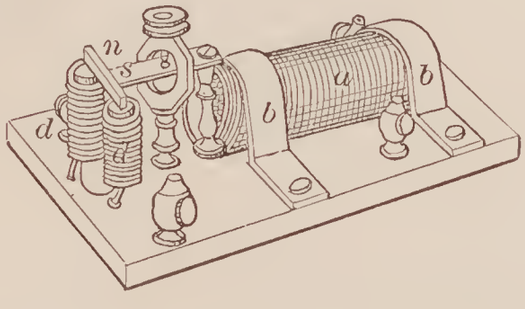


76655—W. Phelan—*Condenser.*

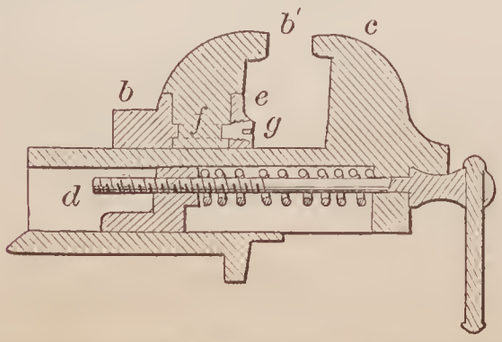


76654—C. G. Page—*Induction Coil Apparatus and in Circuit Breakers.*

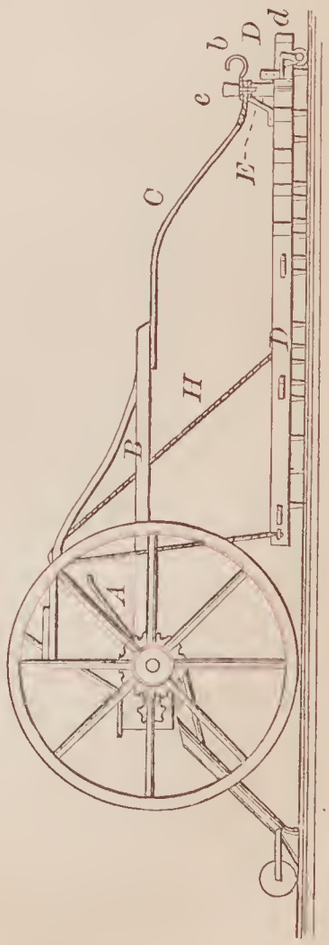




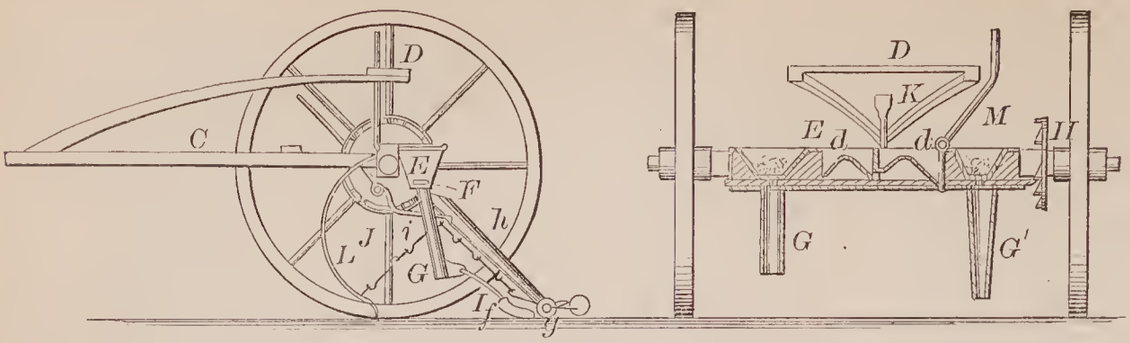
76656—B. L. Randall—*Vise.*



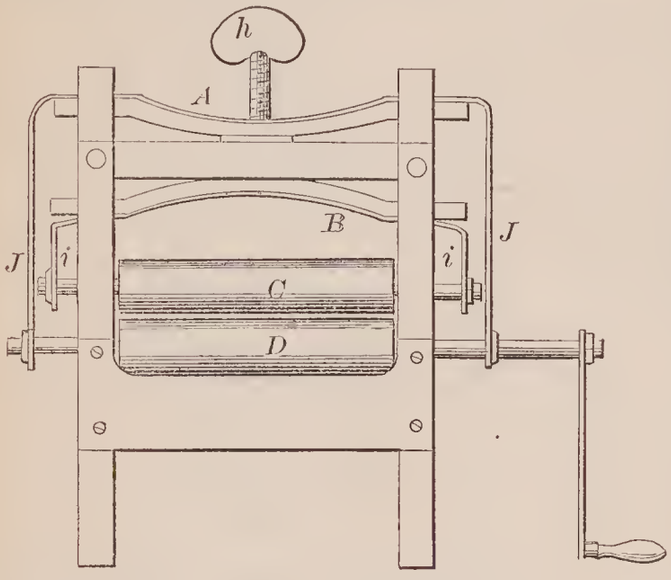
76657—B. Randall—*Sulky Harrow.*



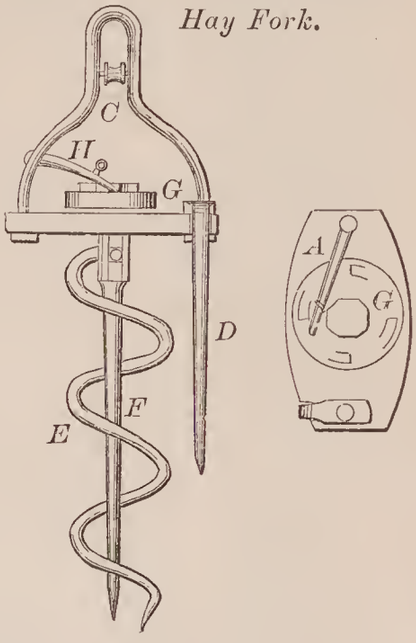
76658—B. Randall—*Corn Planter.*



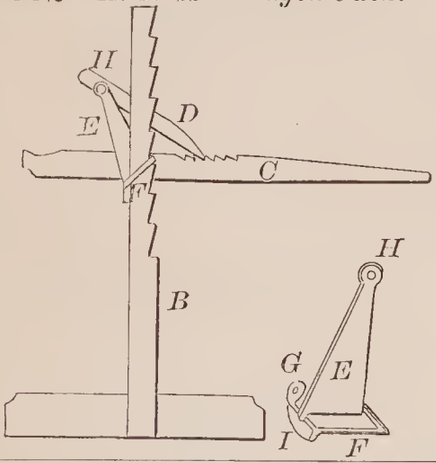
76659—B. Reed—*Clothes Wringer.*



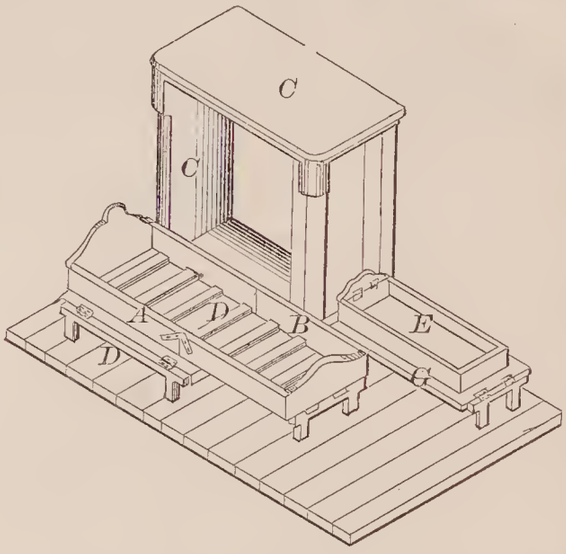
76661—A. Reynolds—*Horse Hay Fork.*



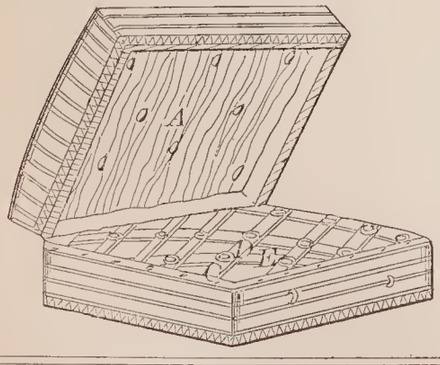
76662—A. Ross—*Wagon Jack.*



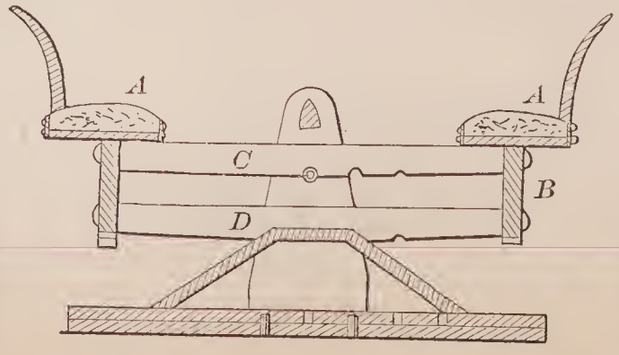
76664—Shackford & Arnaud—*Bureau Bedstead.*



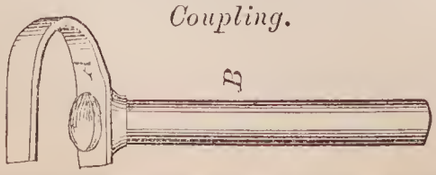
76663—J. W. H. Scott—*Mattress.*



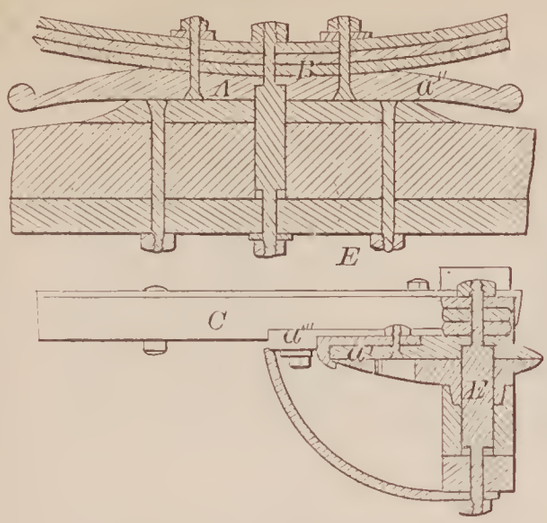
76665—A. F. Sherman—*See-Saw.*



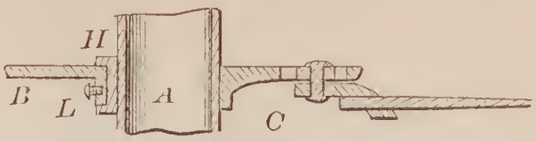
76666—Smith & Judson—*Thill Coupling.*

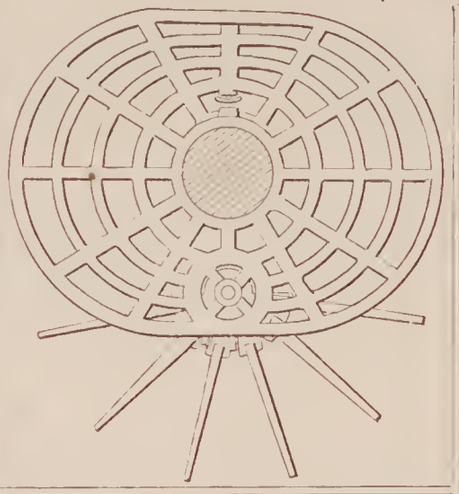


76667—S. B. Smith—*Fifth Wheel Bearing.*



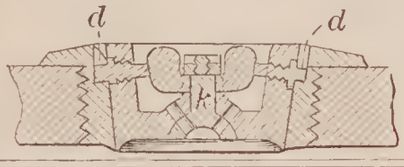
76668—Stiles & Jackman—*Stove Pipe Shelf.*



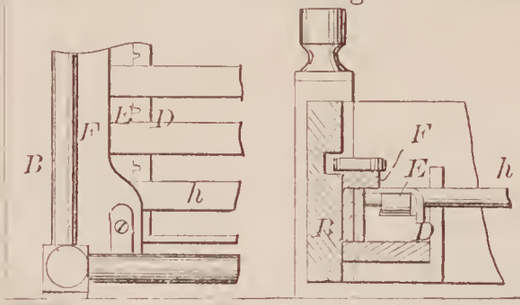


76669—N. F. Stone—*Can Opener.*

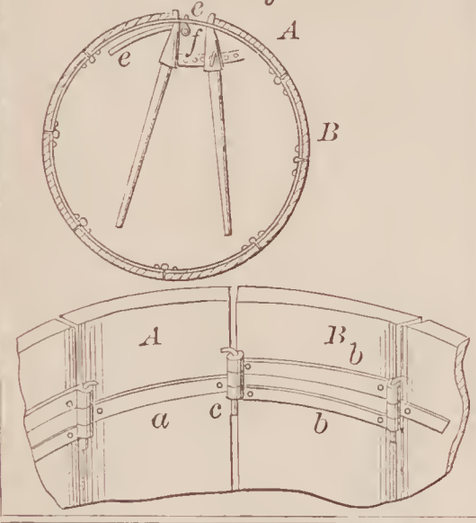
76670—C. C. Stremme—*Bung.*



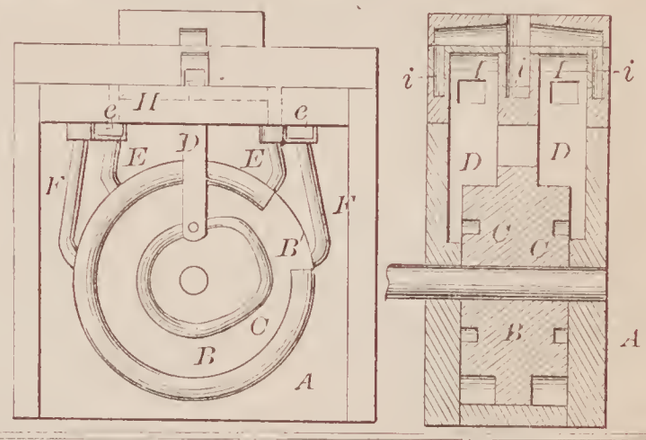
76674—W. H. Tambling—*Bed Bottom.*



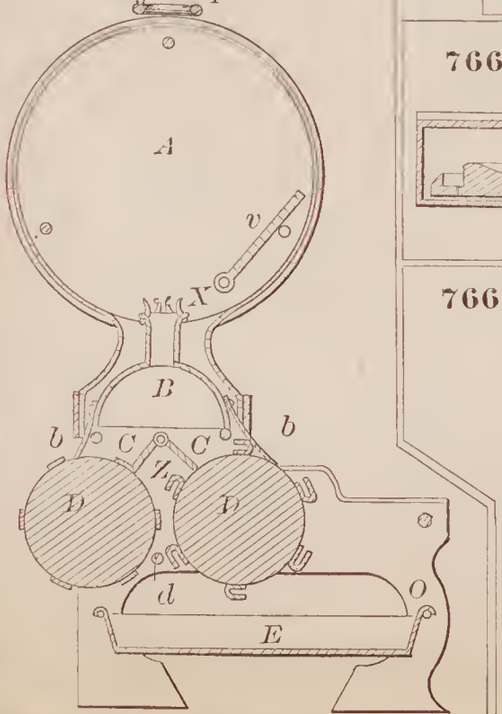
76672—J. A. Sutherland—*For Curbing Wells.*



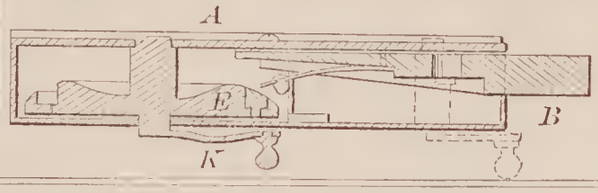
76676—Van Vorhis & Workman—*Rotary Engine.*



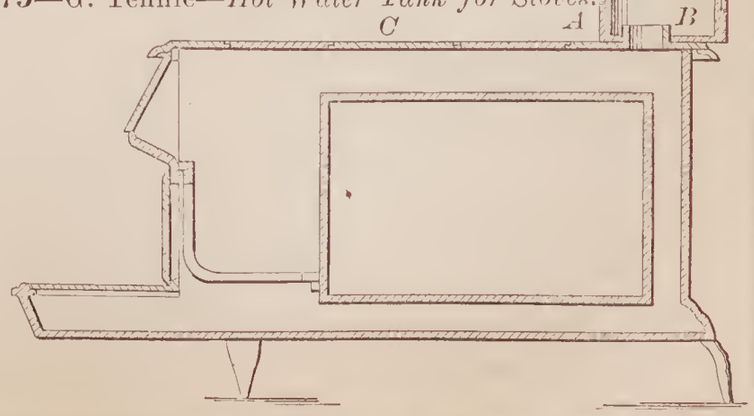
76673—G. J. Swingle—*Fly Trap.*



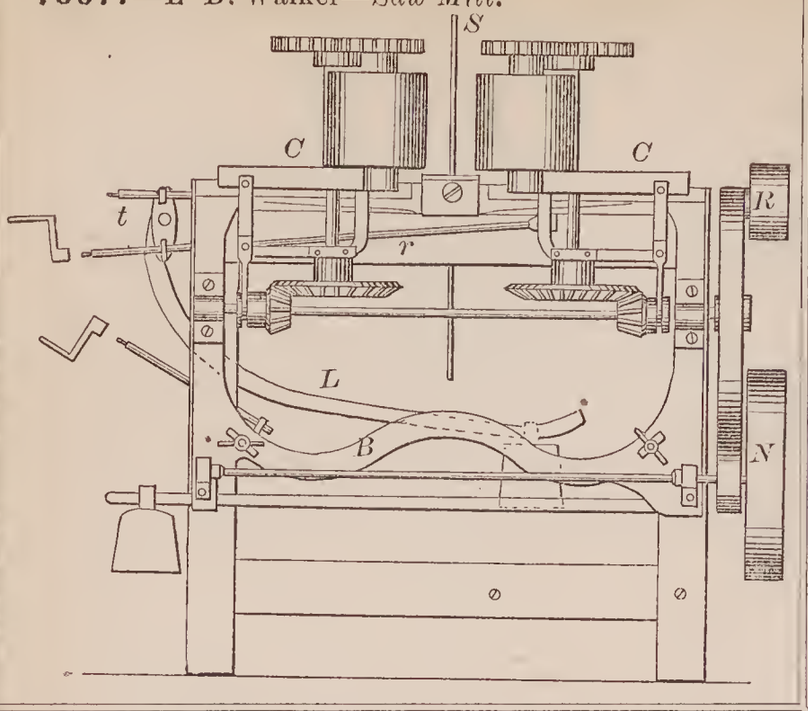
76671—C. Sulzman—*Door Bolt and Lock.*



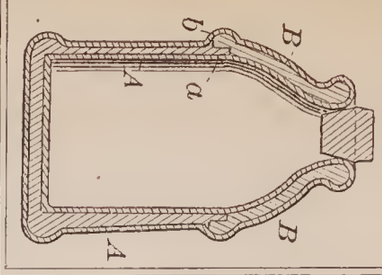
76675—G. Tennie—*Hot Water Tank for Stoves.*



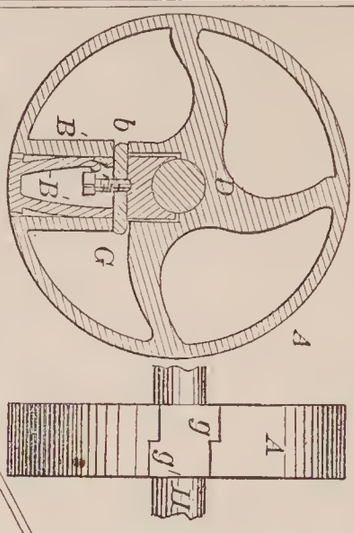
76677—L. B. Walker—*Saw Mill.*



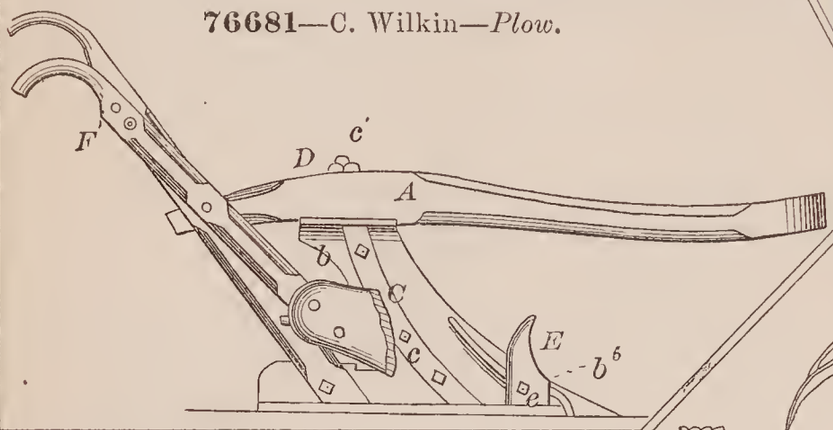
76678—D. P. Webster—*Acid Bottle.*



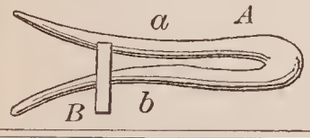
76680—S. Wheeler—*Pulley and Gearing.*



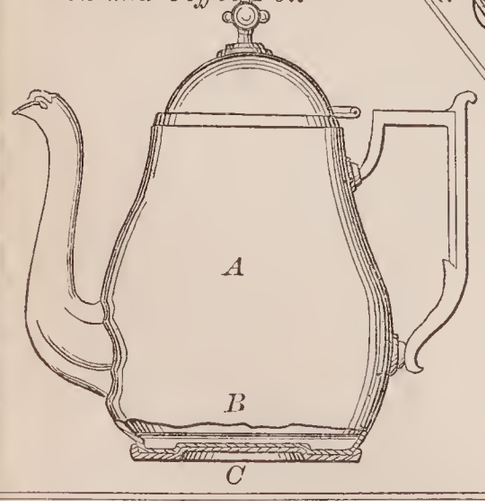
76681—C. Wilkin—*Plow.*



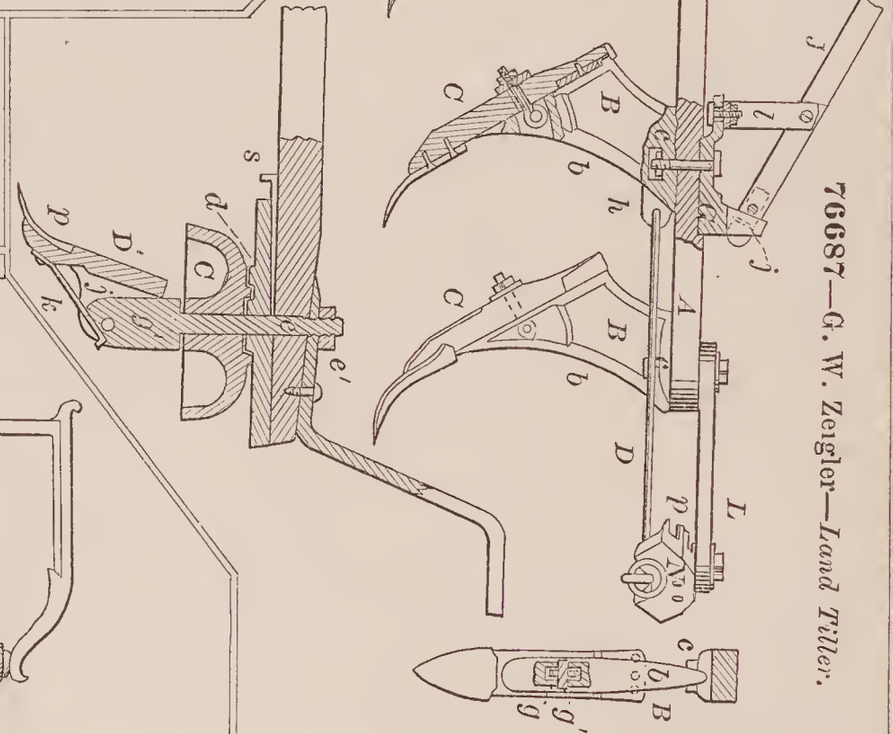
76683—G. W. Wood—*Hair Crimper.*



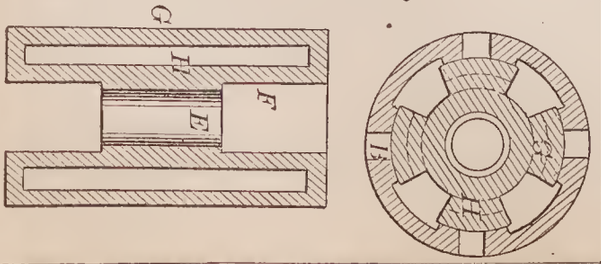
76684—D. B. Woodworth—*Tea and Coffee Pot.*



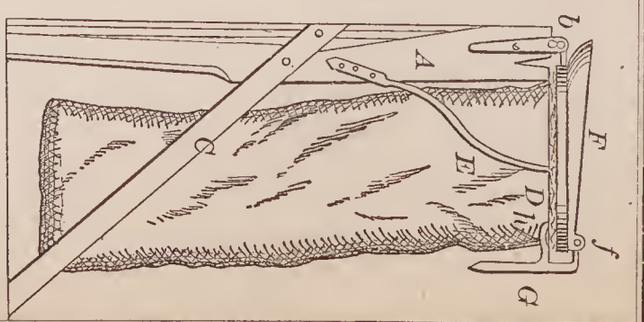
76687—G. W. Zeigler—*Land Tiller.*



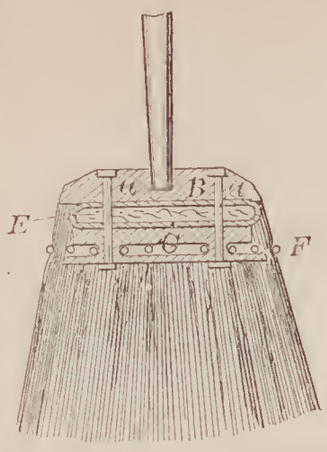
76682—E. D. Wood—*Rotary Valve.*



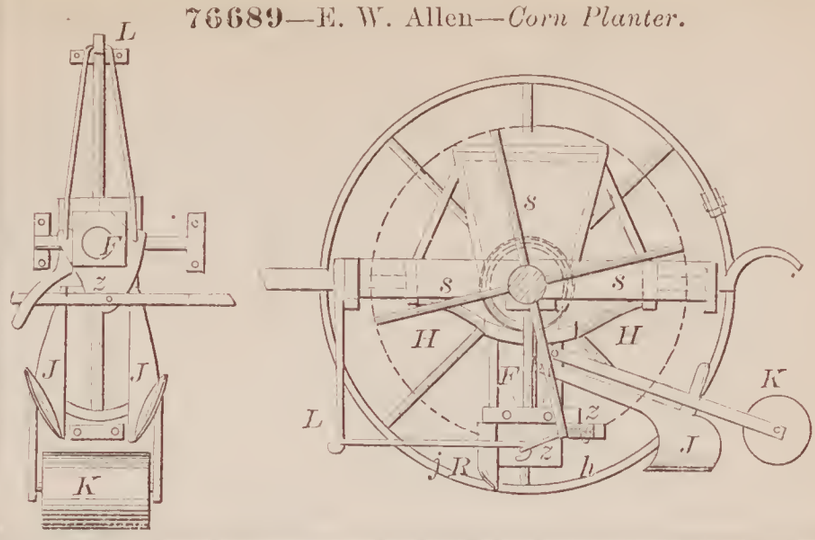
76686—J. & T. R. Yaggy—*Bag Holder.*



76688—A. Alden—*Broom Head.*



76689—E. W. Allen—*Corn Planter.*



76690—J. G. Allen—*Spirit Meter.*

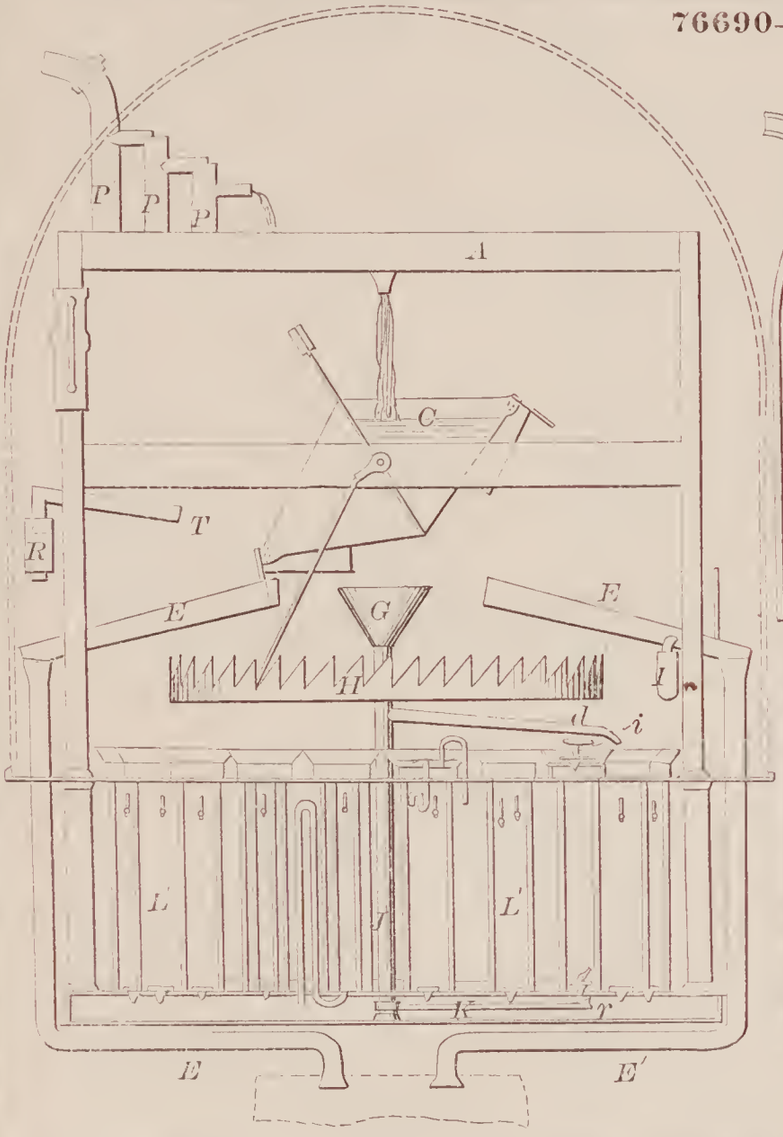
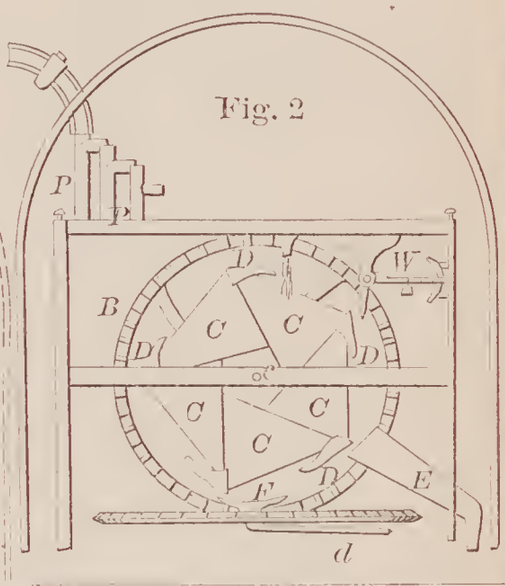
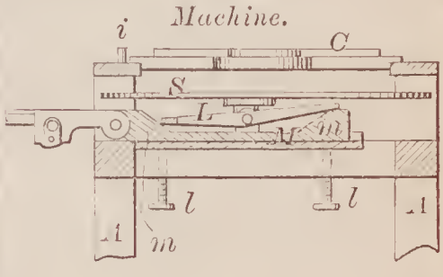


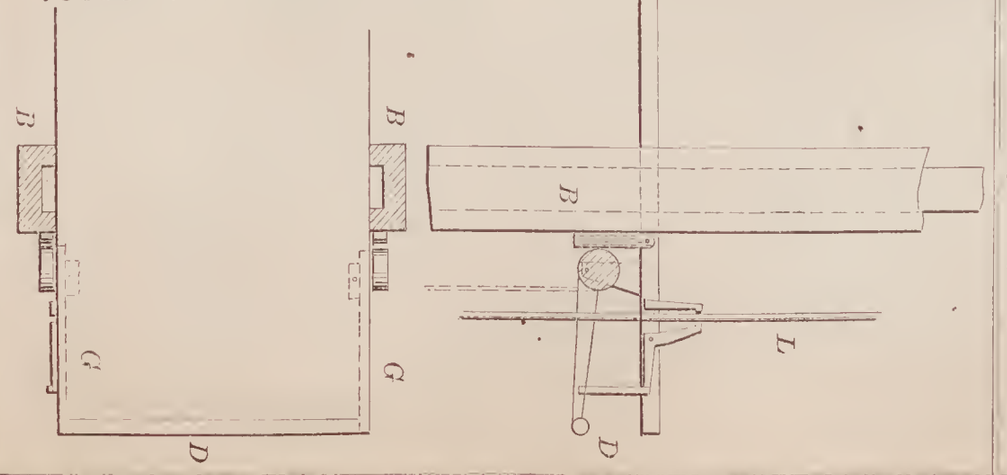
Fig. 2



76691—J. E. Austin—*Shingle Machine.*

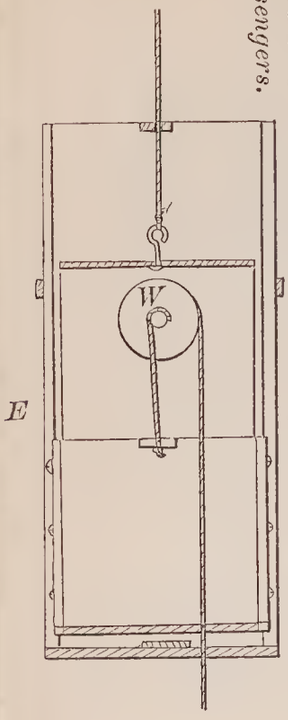


76693—J S. Baldwin—*Elevator*



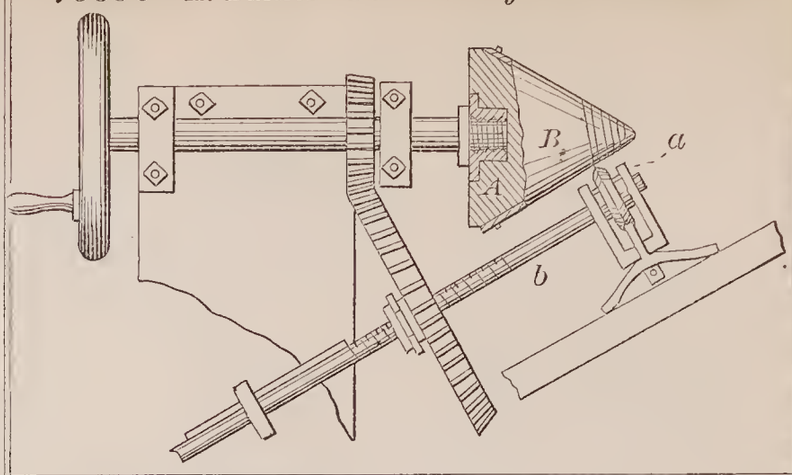
76692—J. S. Baldwin—*Elevator.*

76694—J. S. Baldwin—*Elevator for Transporting Passengers.*

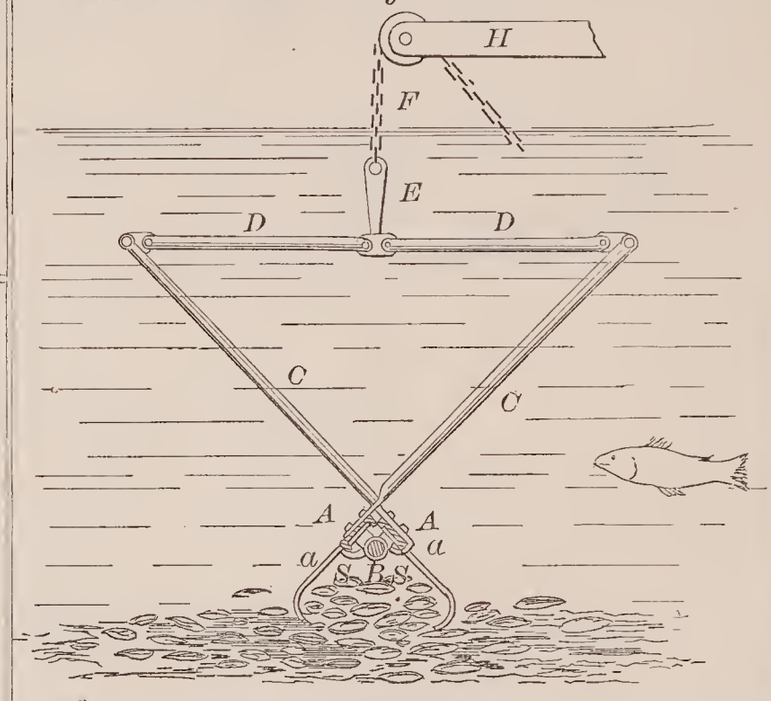


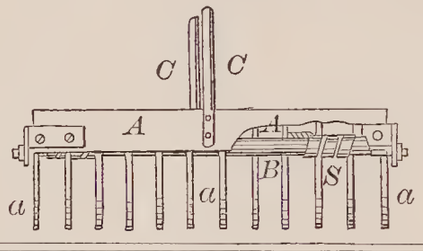
76695—J. Barclay—*Button Hole Lining.*

76696—A. Barnes—*For Printing Hat Bodies.*

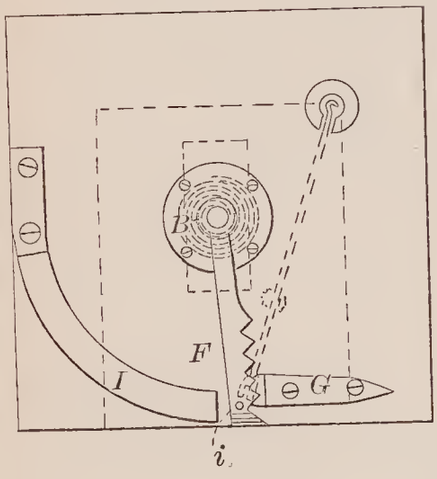


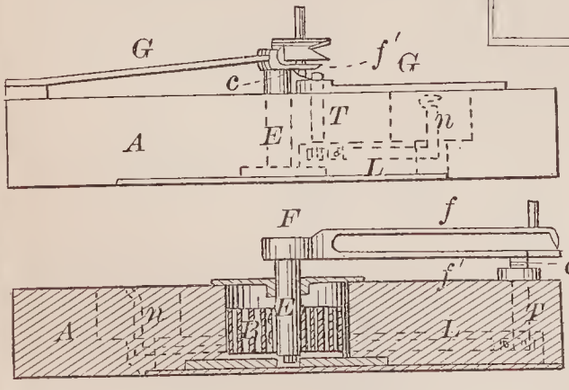
76697—A. Barrett—*Oyster Rake.*



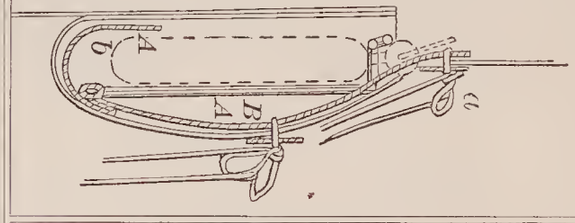


76700—R. Beem—*Rat Trap.*

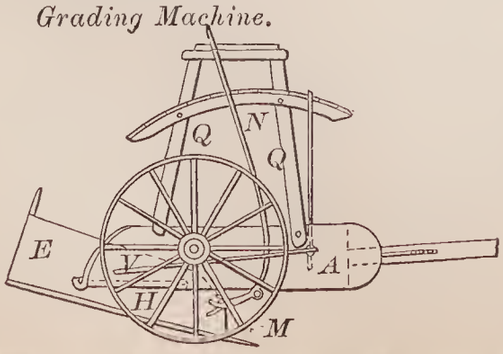


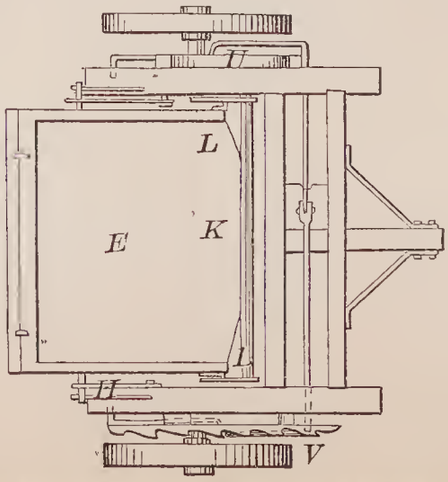


76699—C. Baumann—*Watch Protector*

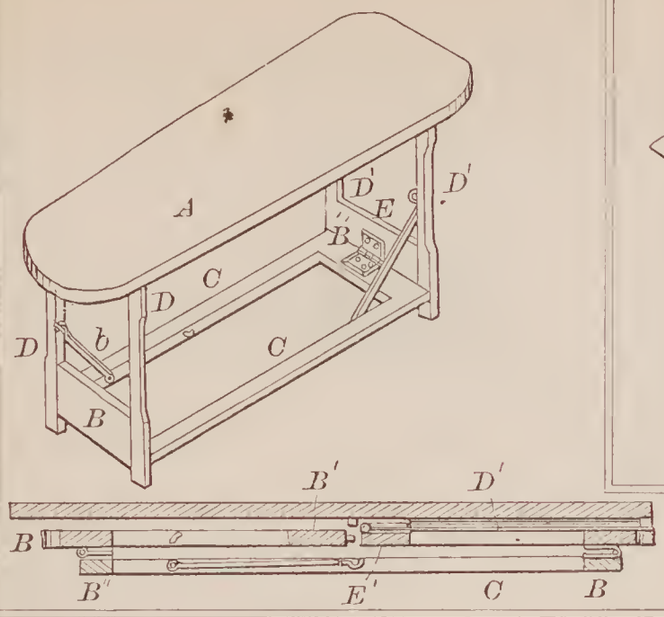


76698—Bartlit & Merryman—*Grading Machine.*

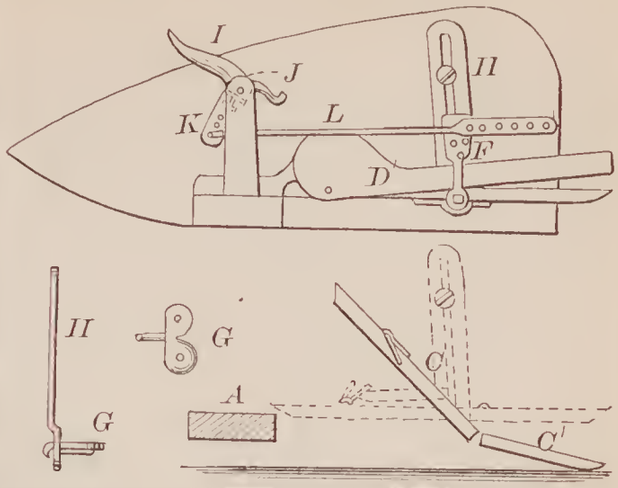




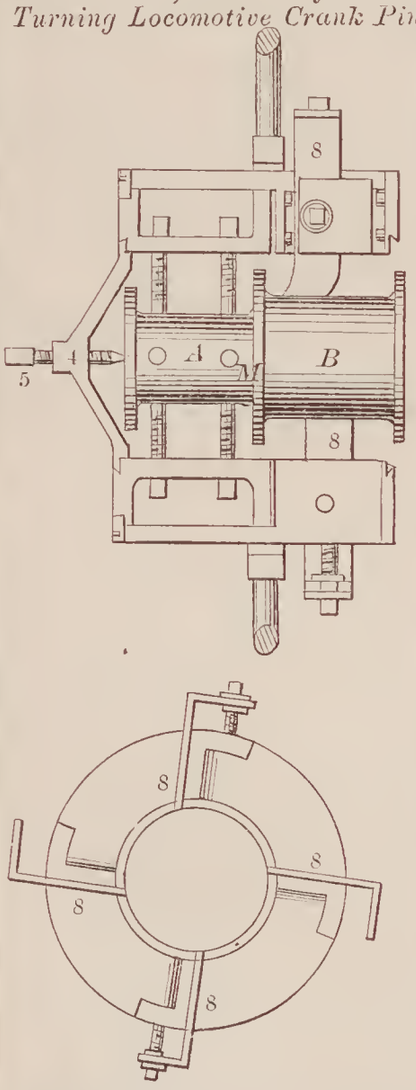
76701—G. I. Birch—*Ironing Board.*



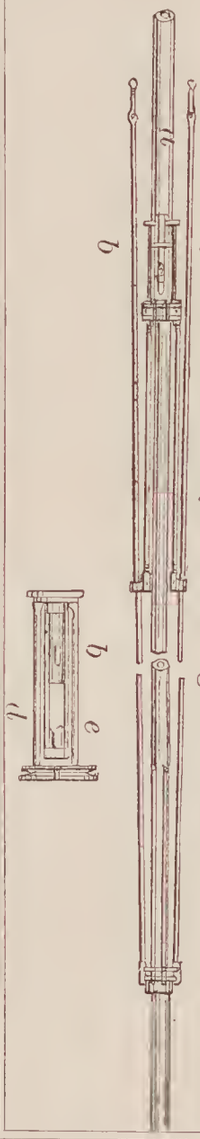
76703—J. W. Bope—*Platform for Harvesters.*



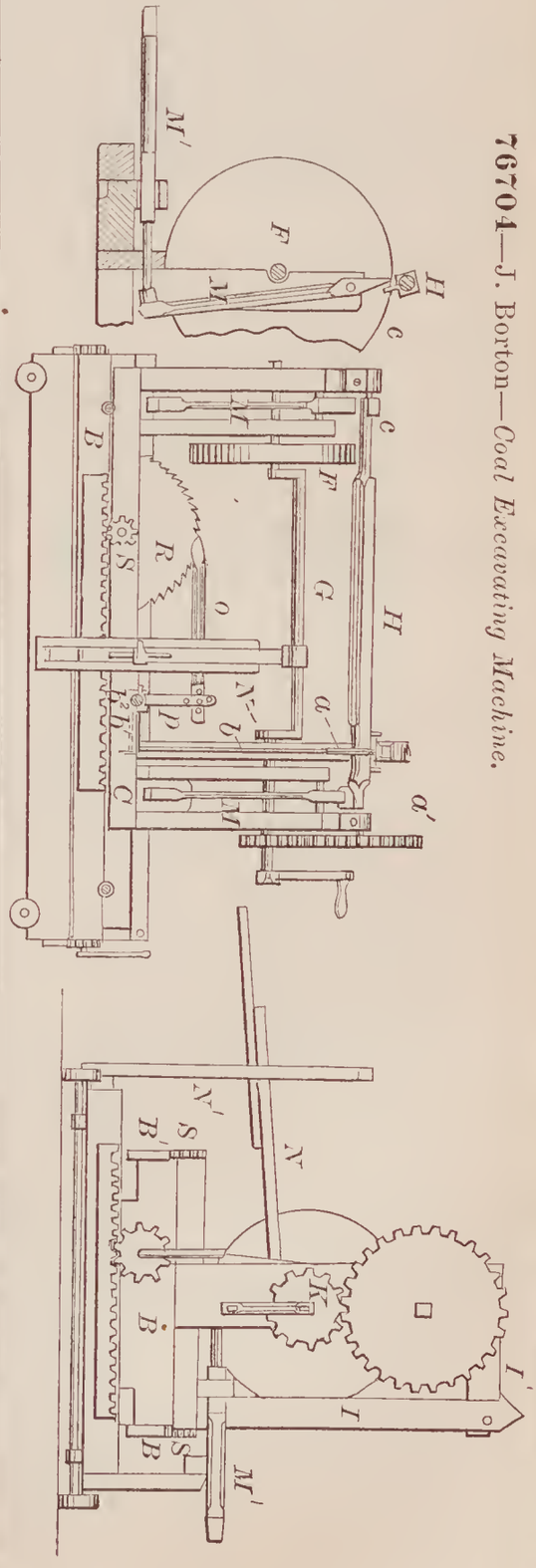
76702—Blythe & Hayes—*For Turning Locomotive Crank Pins.*



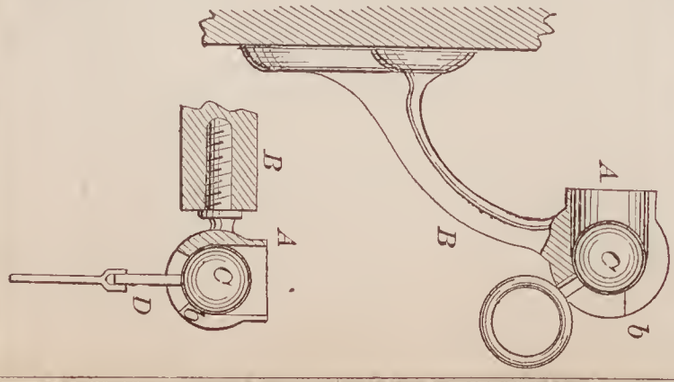
76705—Boyce & Harrington—*Umbrella.*



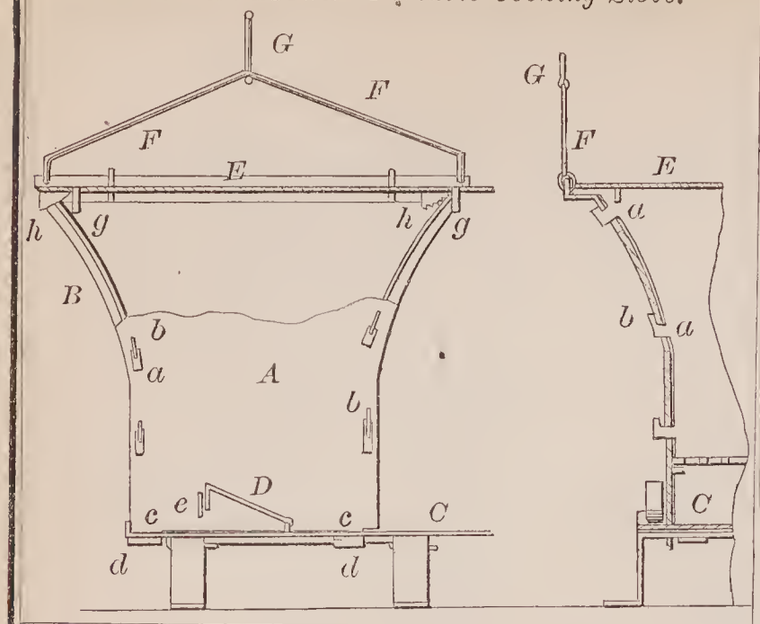
76704—J. Borton—*Coal Excavating Machine.*



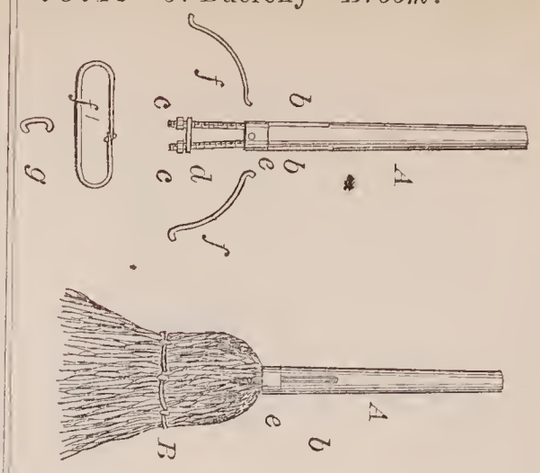
76706—H. Breevort—*Detachable Ball Joint.*



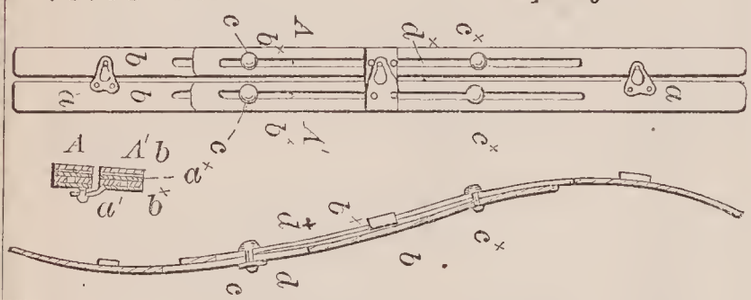
76707—H. Brown—*Portable Cooking Stove.*



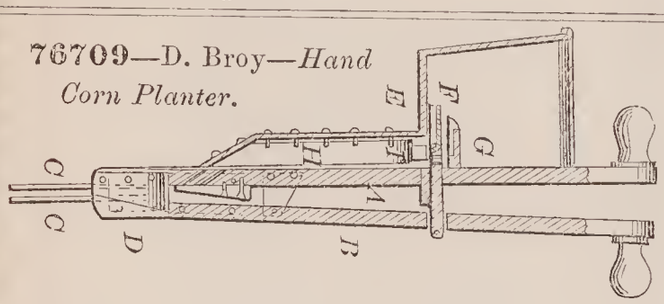
76710—J. Buercky—*Broom.*



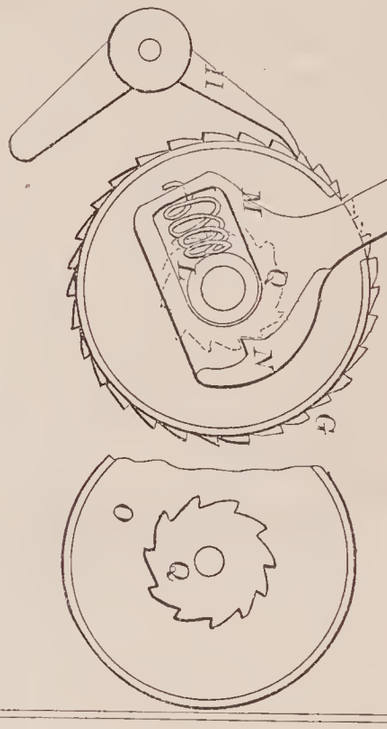
76708—Brown & Willets—*Corset Spring.*



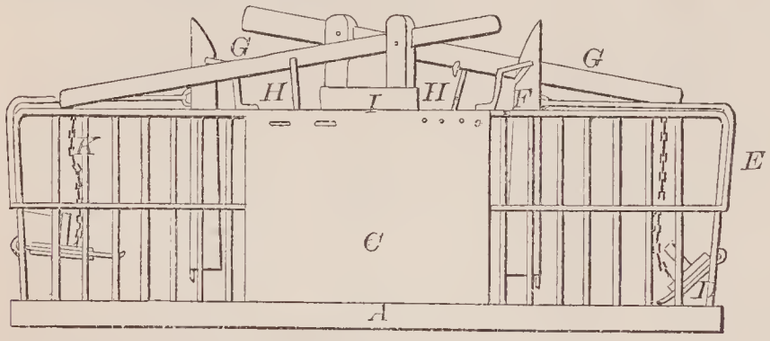
76709—D. Broy—*Hand Corn Planter.*



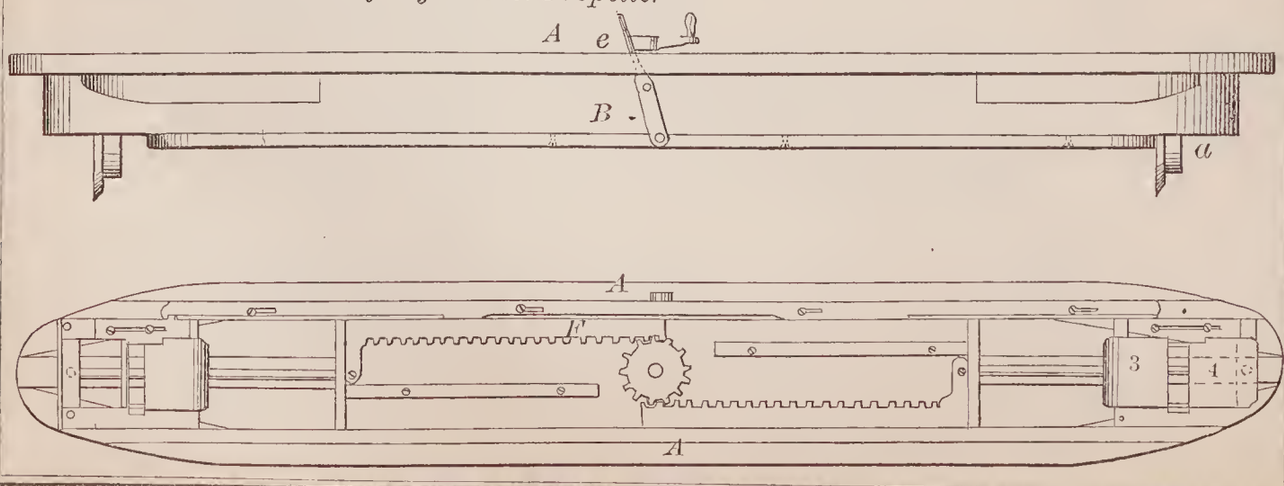
76712—W. H. Castle—*Water Elevator.*



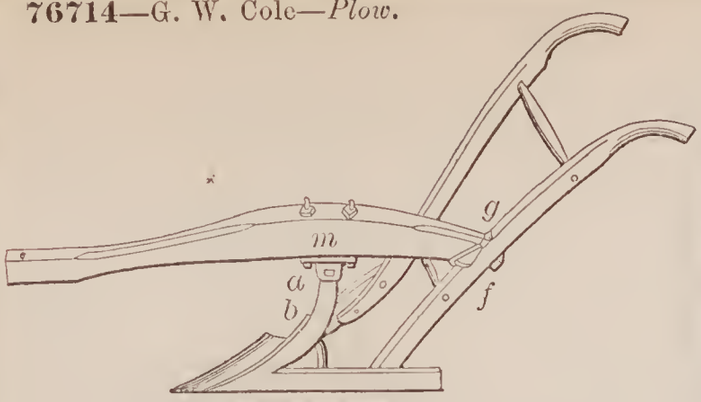
76713—J. J. Cline—*Animal Trap.*



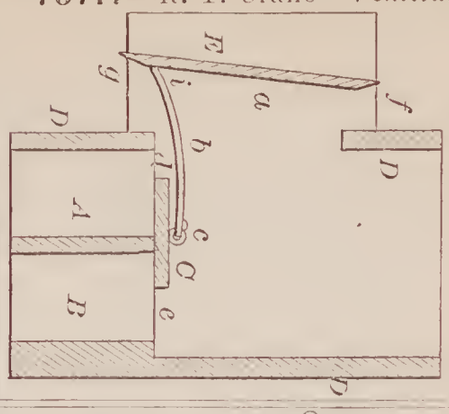
76711—J. Busser—*Shifting Bucket Propeller*



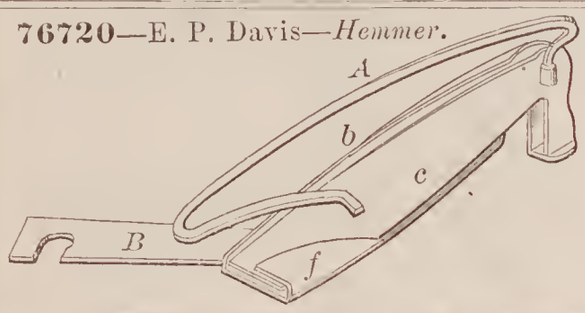
76714—G. W. Cole—*Plow.*



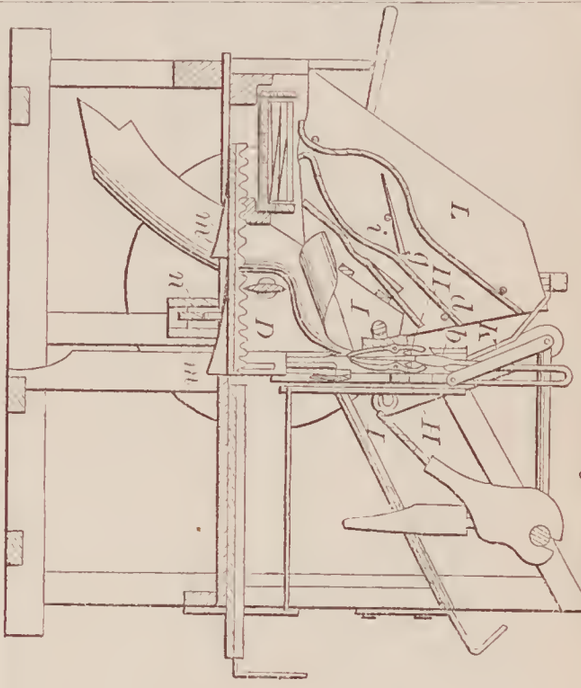
76717—R. T. Crane—*Ventilator.*



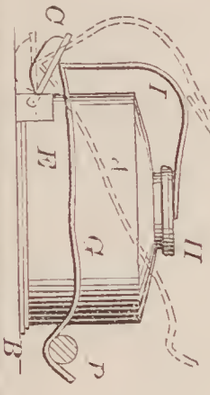
76720—E. P. Davis—*Hemmer.*



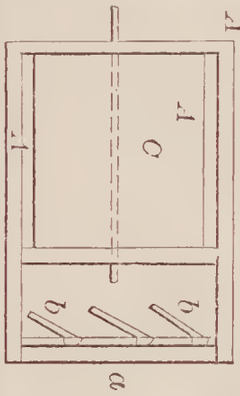
76721—J. P. N. Davis—*Shingle Machine.*

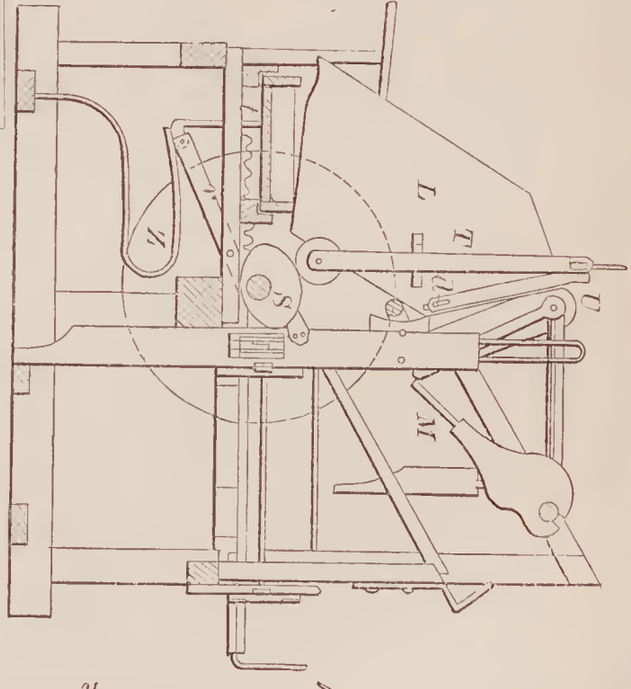


76719—Darling & Hall—*Jackstand.*

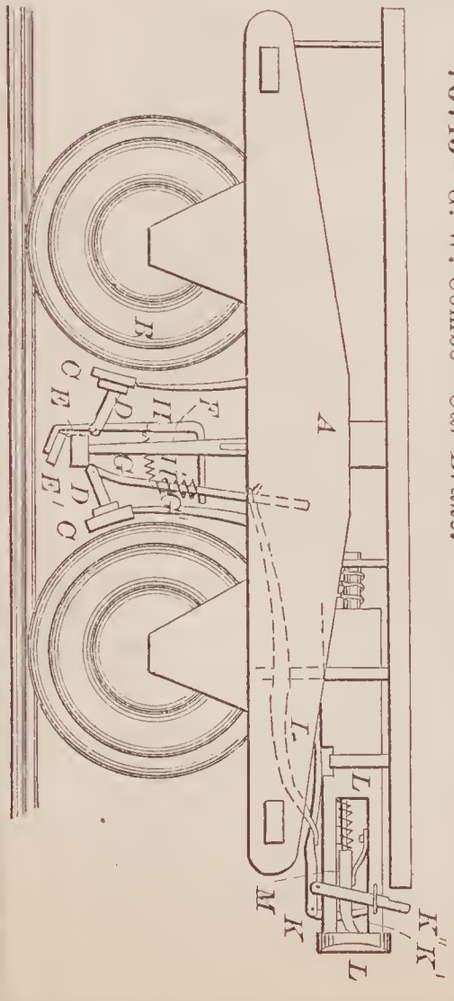


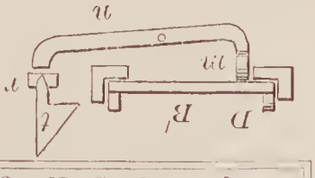
76718—R. T. Crane—*Ventilator.*

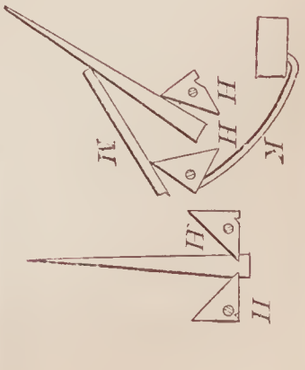




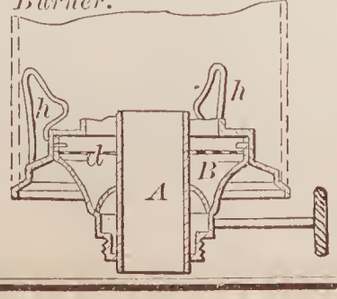
76715—G. W. Combs—*Car Brake.*



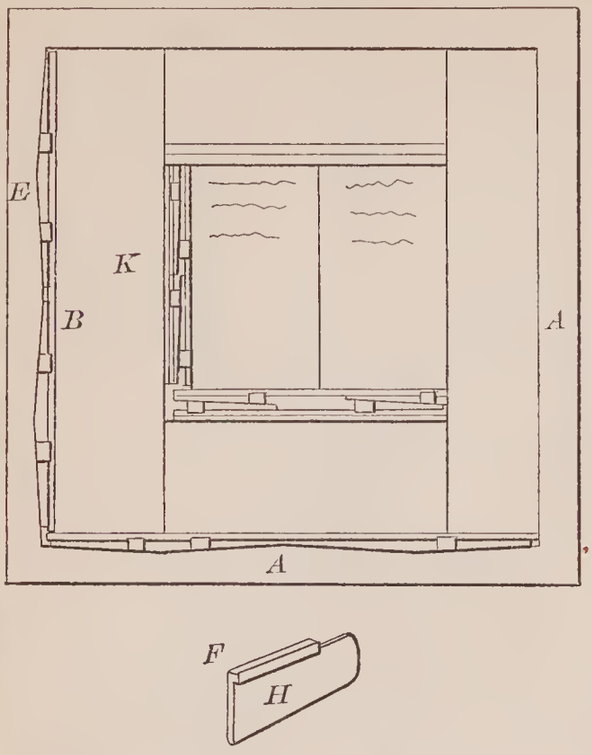




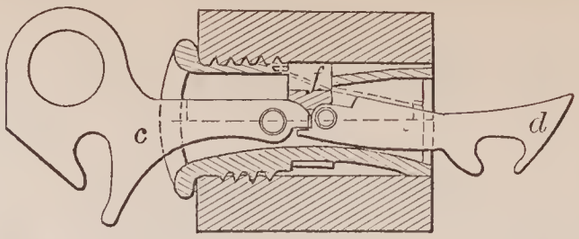
76716—H. Coulter—*Lamp Burner.*



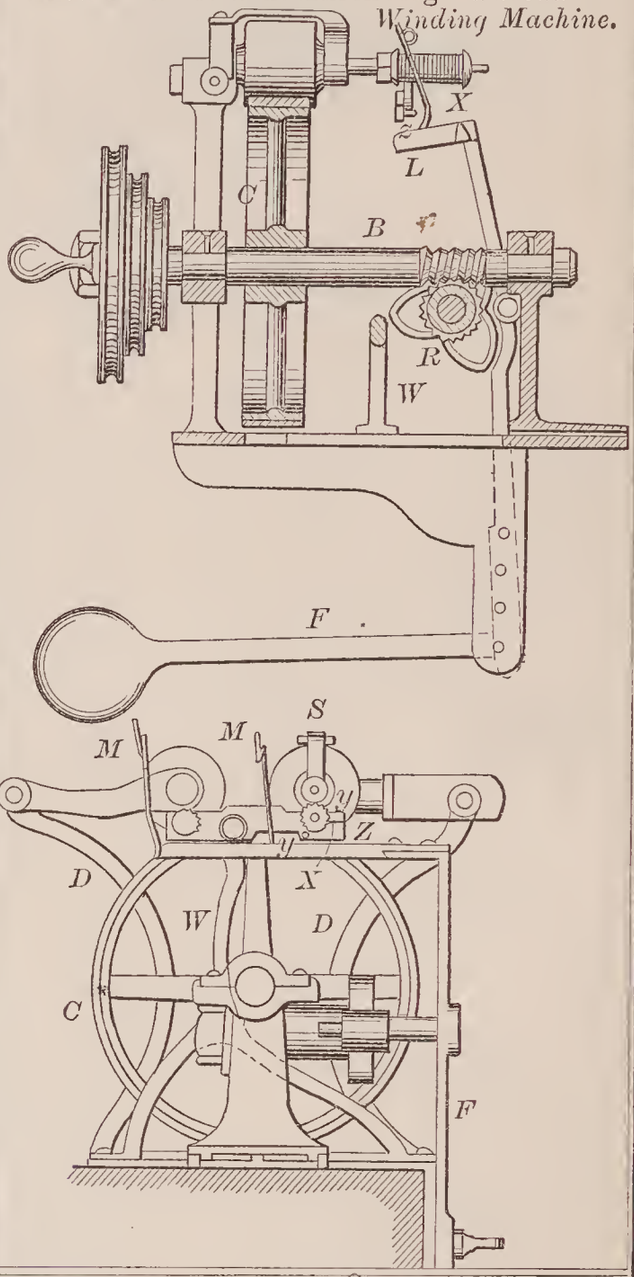
76722—R. Dick—*Printers' Chase.*



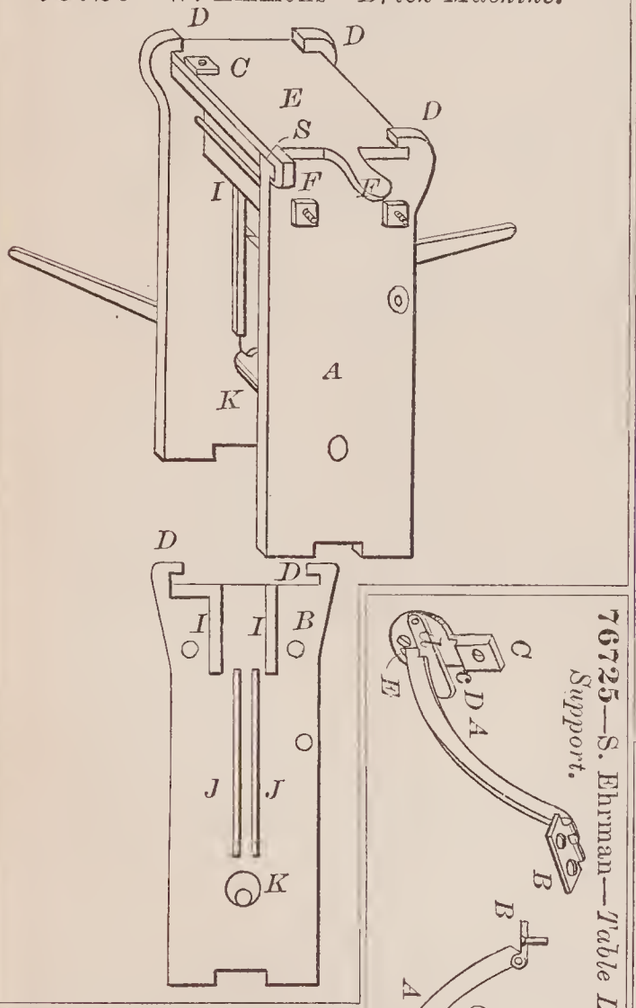
76723—B. Doe—*Shutter Fastening.*



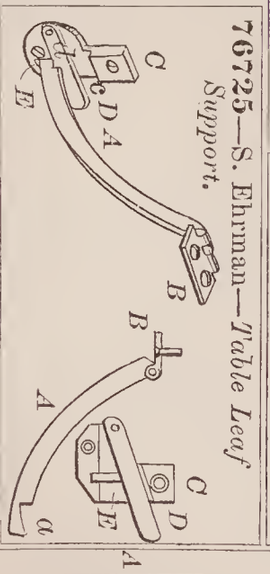
76724—F. C. & T. Ehrenberg—*Thread Winding Machine.*

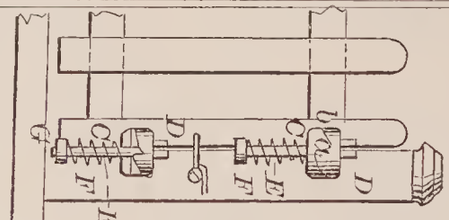


76726—W. Emmons—*Brick Machine.*



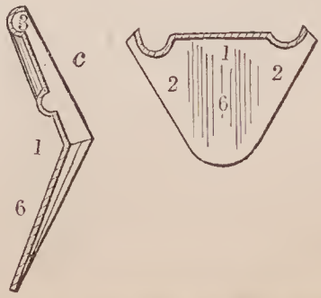
76725—S. Ehrman—*Table Leaf Support.*



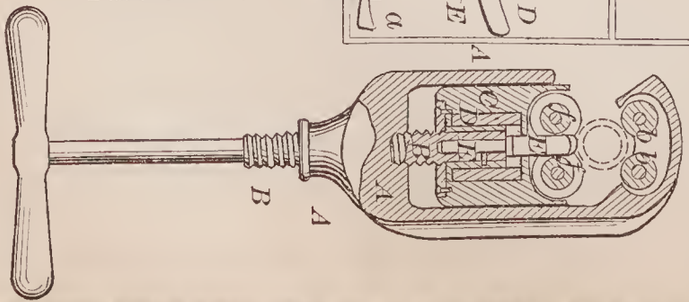


76727—D. S. Esten—*Hinge.*

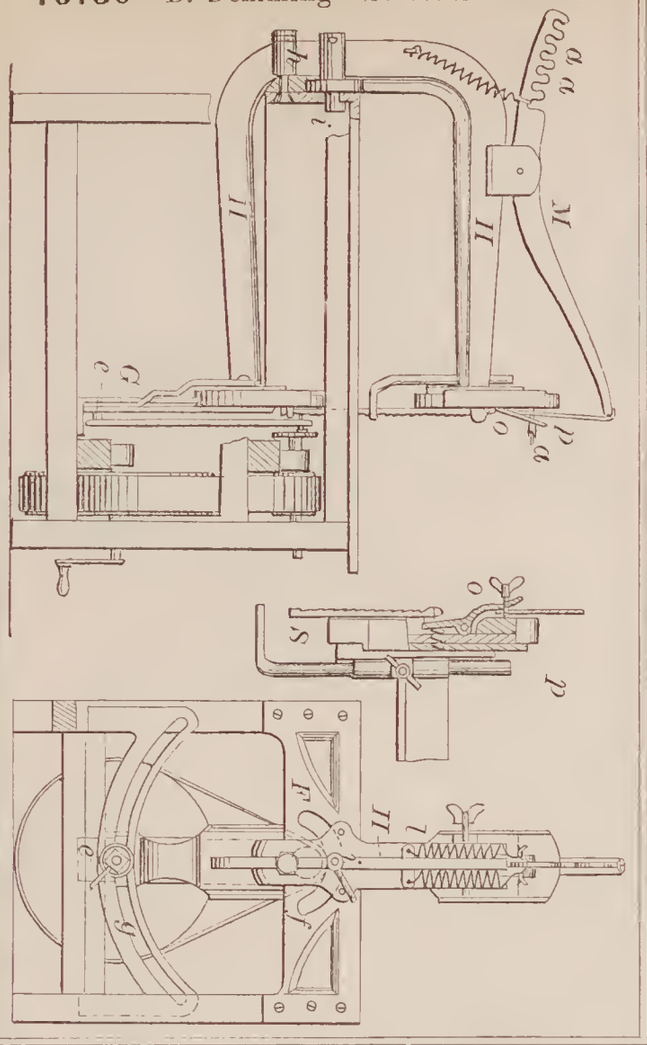
76728—T. Evans—*Ear for Kettle Bails.*



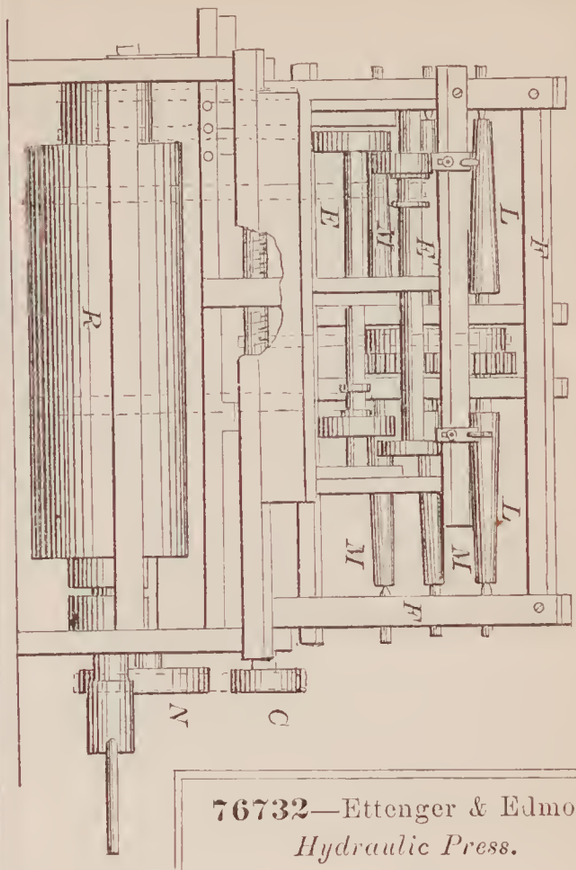
76729—J. De Galleford—*Tube Cutter.*



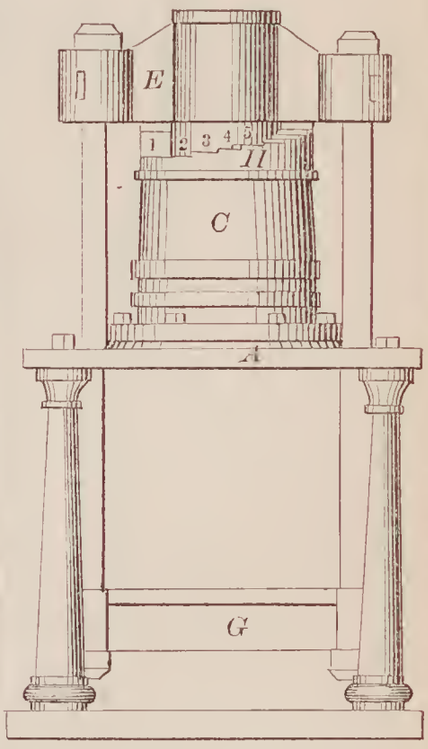
76730—B. Demming—*Scroll Saw Mill.*



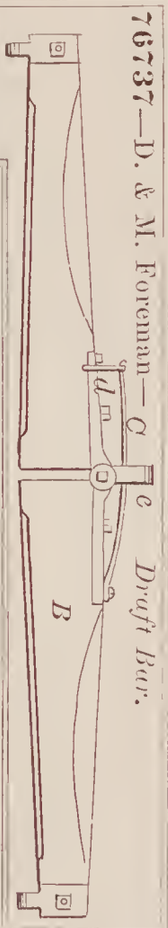
76733—G. W. Feltes—*Wood Lathe.*



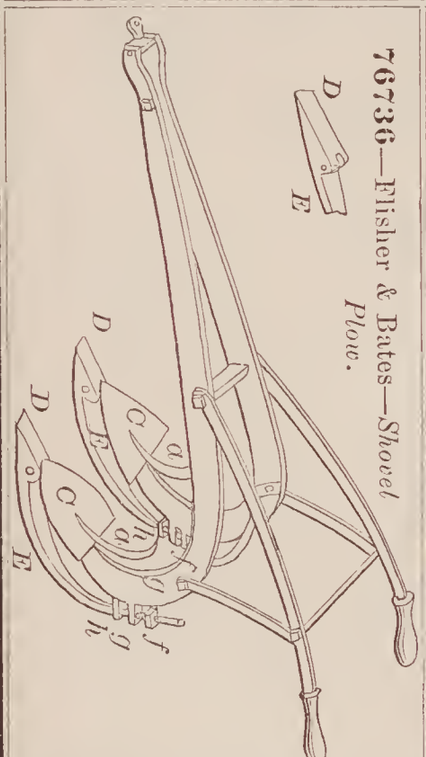
76732—Ettenger & Edmond—*Hydraulic Press.*



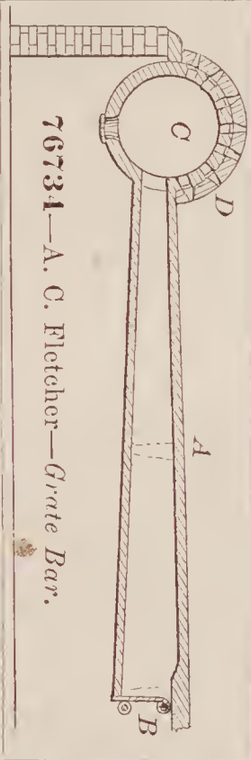
76737—D. & M. Foreman—*Draft Bar.*



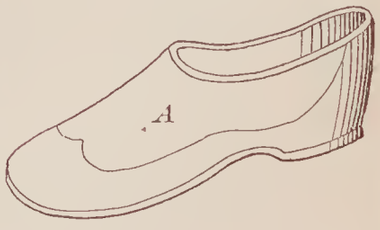
76736—Flisher & Bates—*Shovel Plow.*



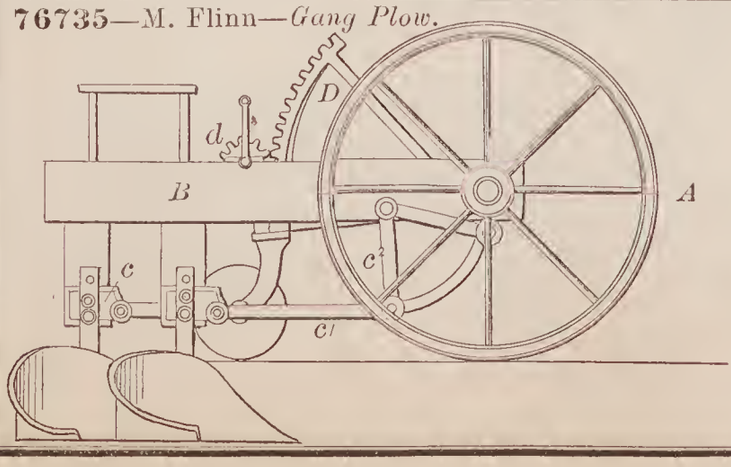
76734—A. C. Fletcher—*Grate Bar.*

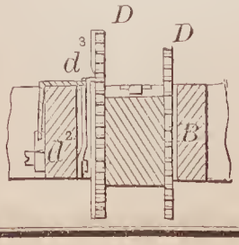


76731—L. Elliott, Jr.—*Overshoe.*

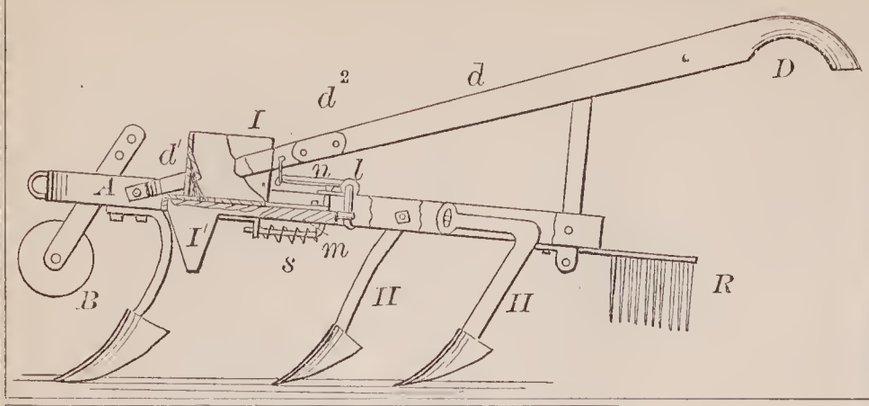


76735—M. Flinn—*Gang Plow.*

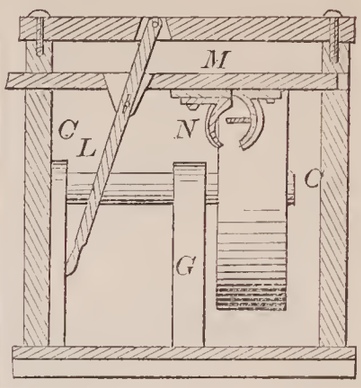




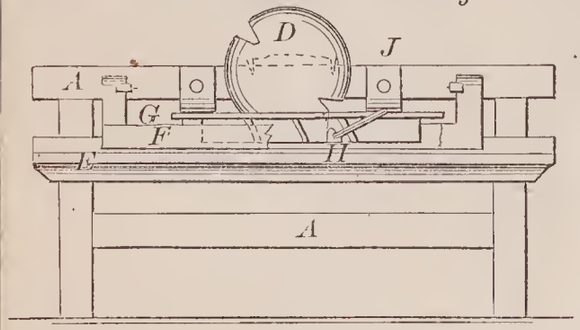
76738—J. H. Frampton—*Corn Planter and Plow.*

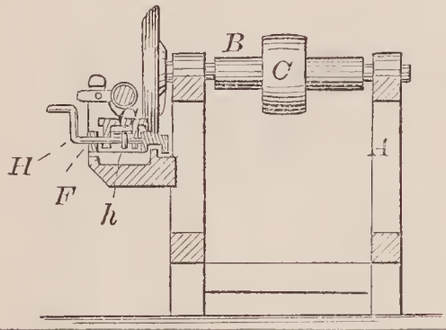


76739—T. W. Frost—*Shipper for Shifting Belts.*

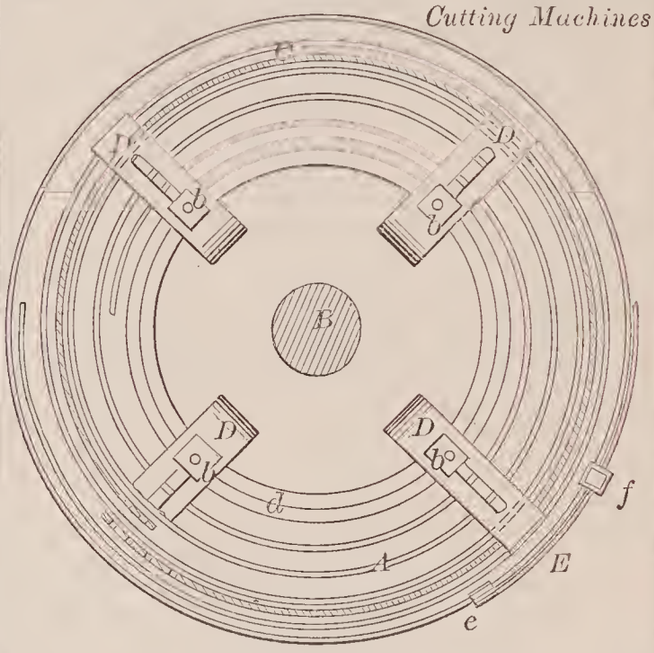


76740—O. P. Furman—*Planing Machine.*

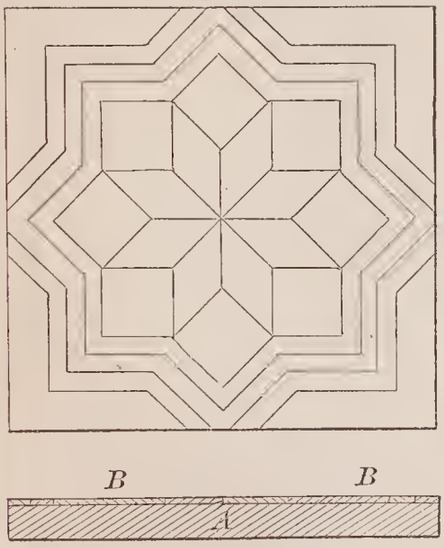




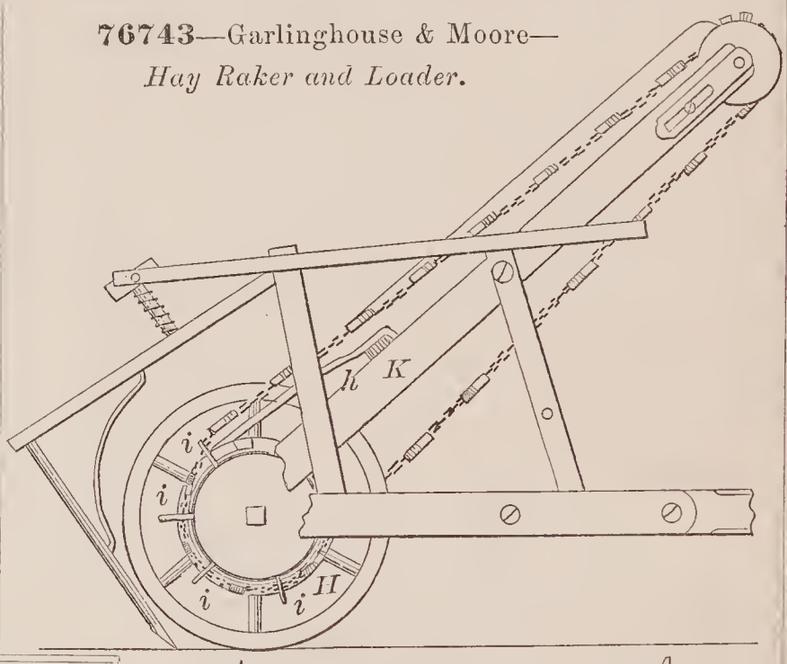
76741—W. M. Galusha—*Seroll Index for Gear Cutting Machines.*



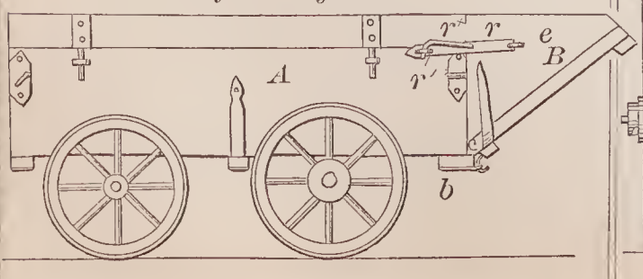
76742—G. G. Garibaldi—*Mosaic Floor.*

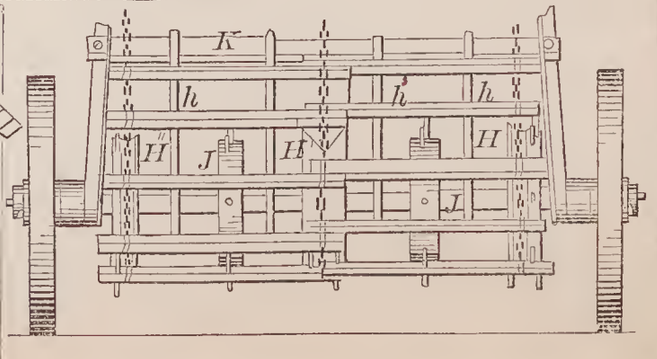


76743—Garlinghouse & Moore—*Hay Raker and Loader.*

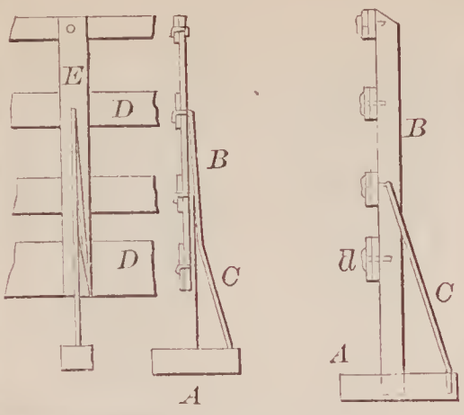


76744—F. Gerard—*Hopper Attachment for Wagons.*

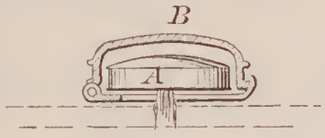




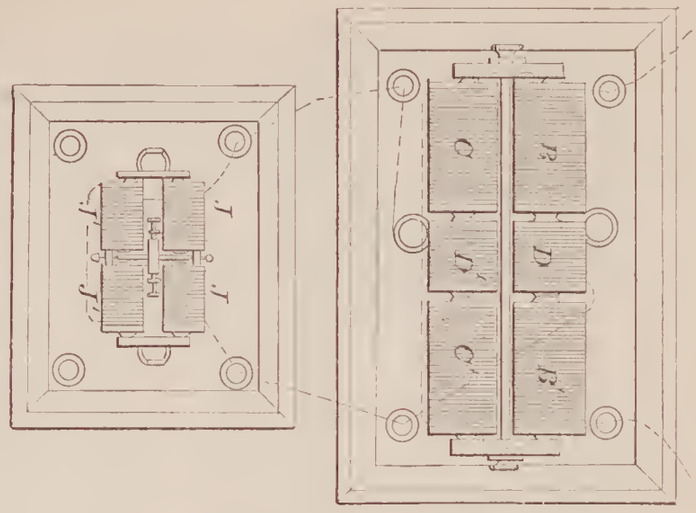
76745—J. A. Gormly—*Fence.*



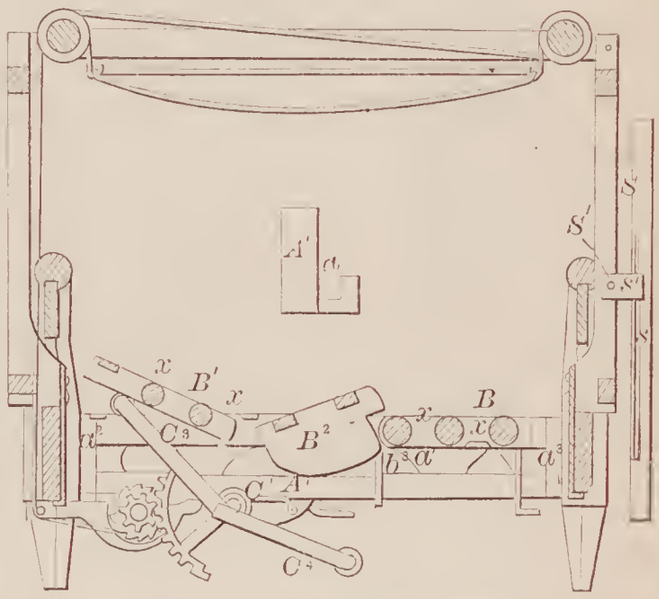
76746—F. H. Gould—
Detachable Button Covering.



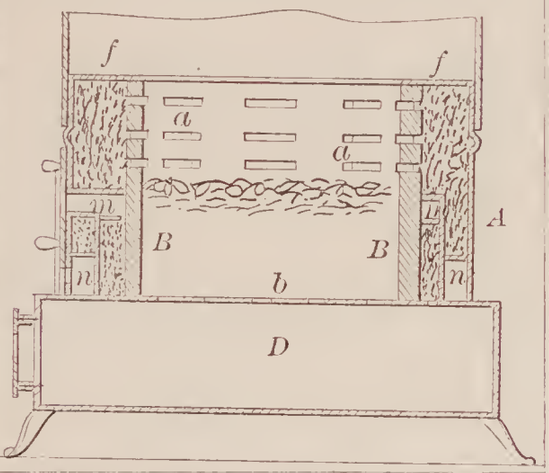
76748—E. Gray—*Telegraph Apparatus.*



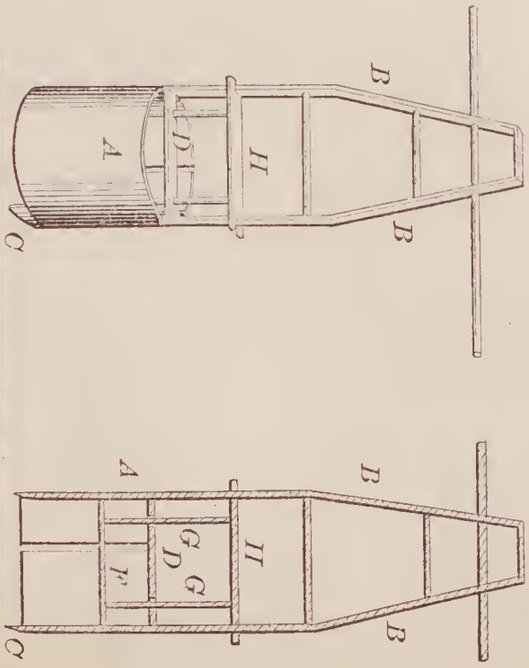
76747—E. Gray—*Hospital Bed.*



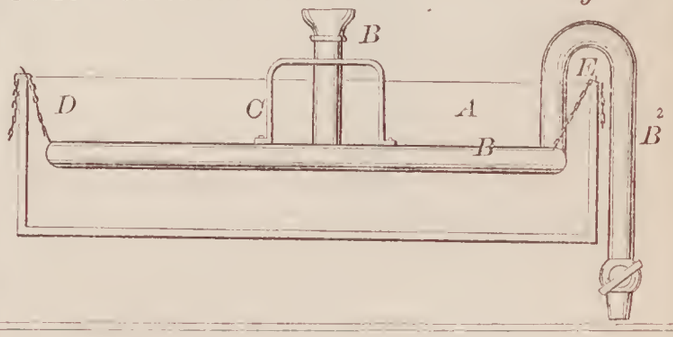
76750—C. B. Gregory—*Fireplace.*



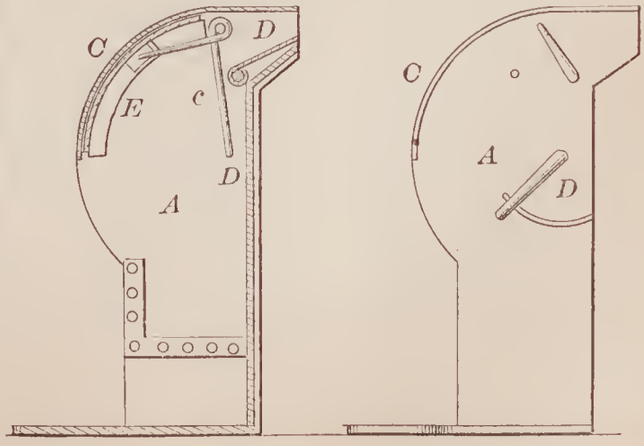
76752—W. I. Hale—*Post Hole Boring Machine.*



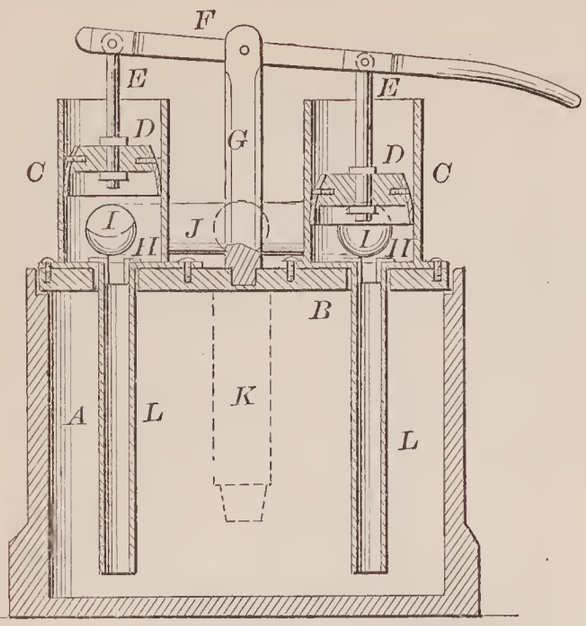
76749—Greenleaf & Larkins—*For Treating Milk.*



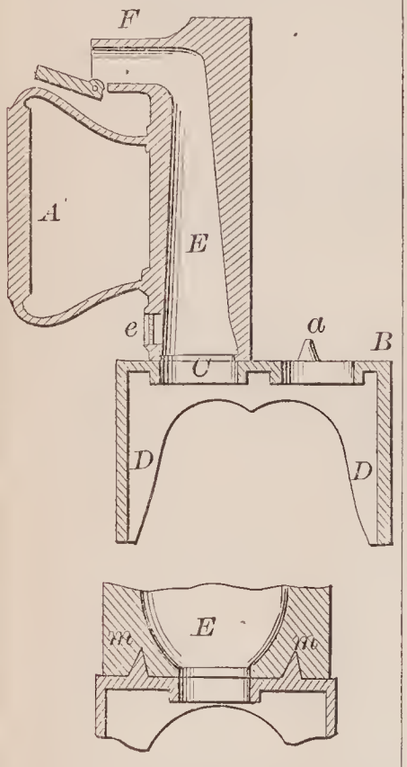
76751—W. D. Guseman—*Fireplace.*



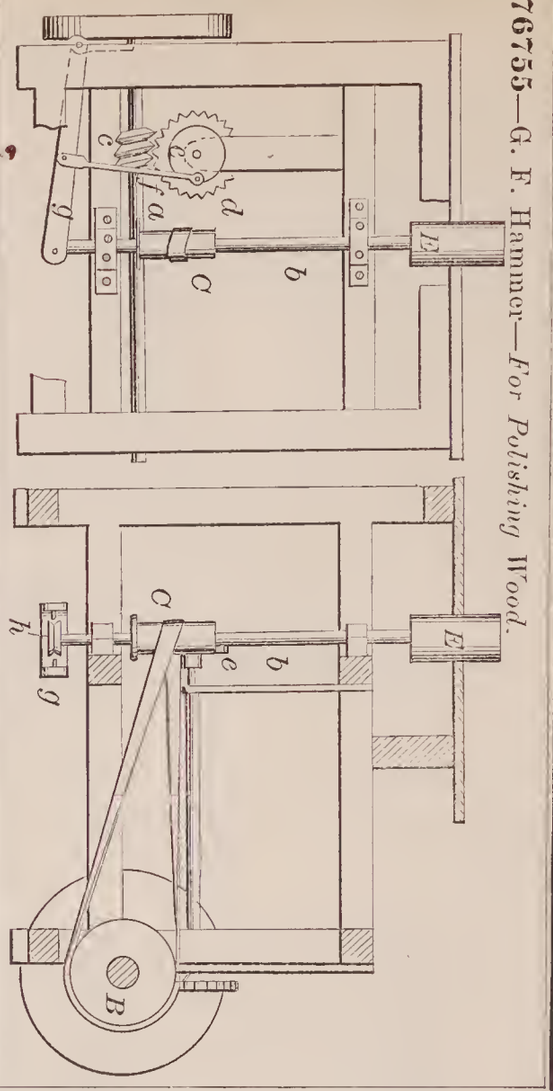
76753—D. C. Hall—*Atmospheric Churn.*



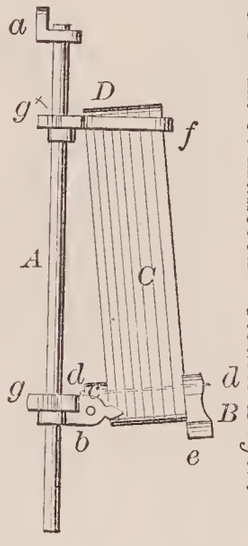
76754—J. W. Hall—*Sad Iron.*



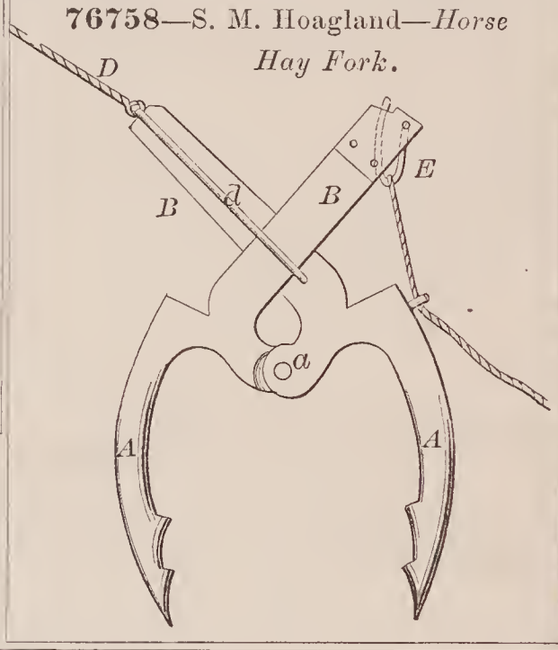
76755—G. F. Hammer—*For Polishing Wood.*



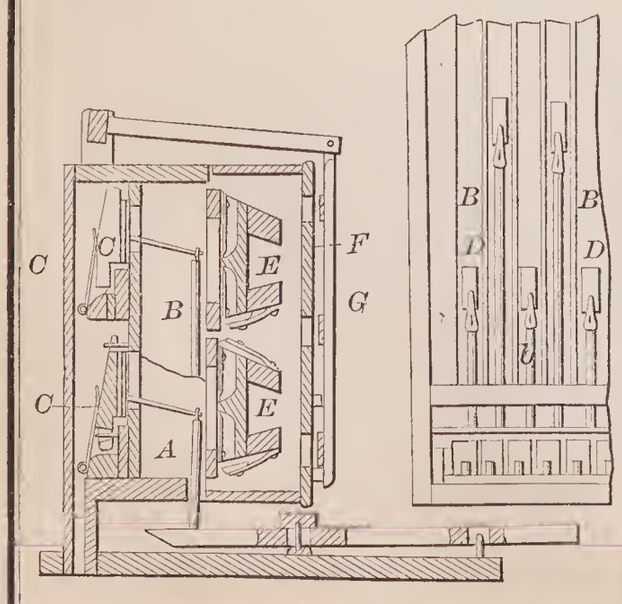
76756—H. J. Hancock—*Clothes Dryer.*



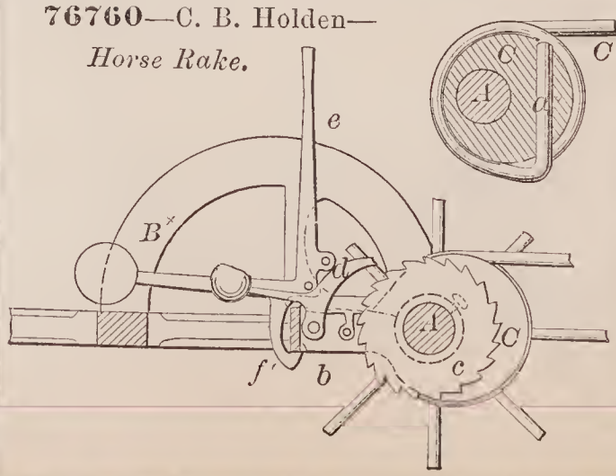
76758—S. M. Hoagland—*Horse Hay Fork.*



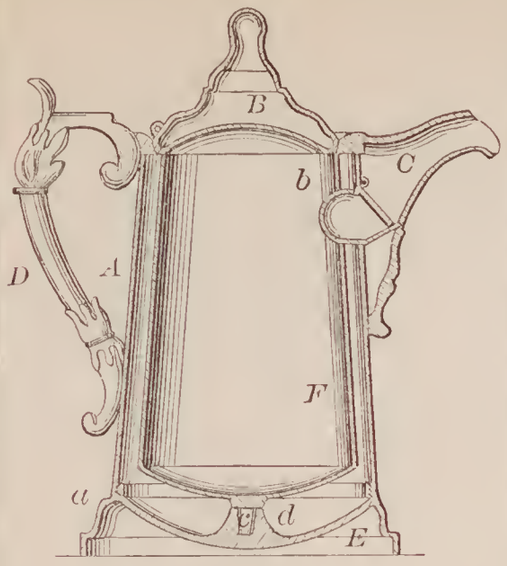
76759—F. Hoddick—*Reed Organ.*



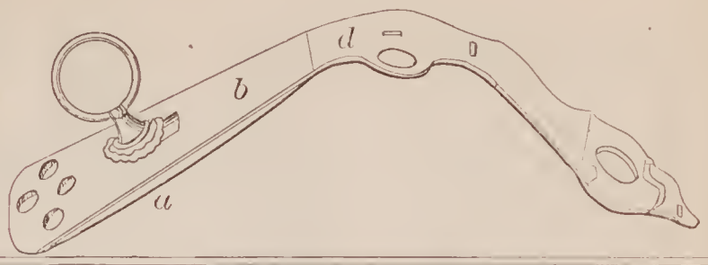
76760—C. B. Holden—*Horse Rake.*



76761—R. Holmes—*Ice Pitcher.*

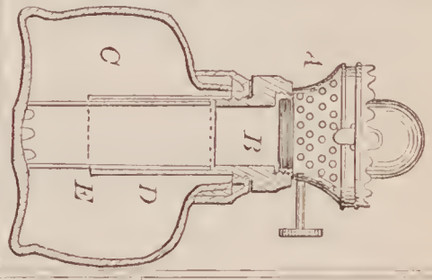


76762—B. F. Hooper—*Coach Pad.*

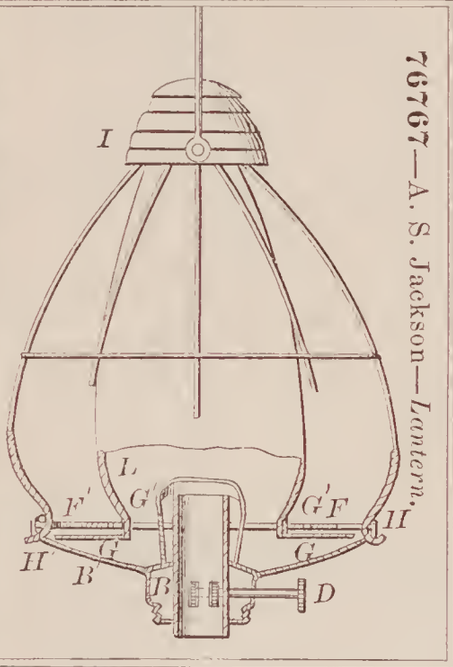


76766—E. D. Ives—*Glass Knob.*

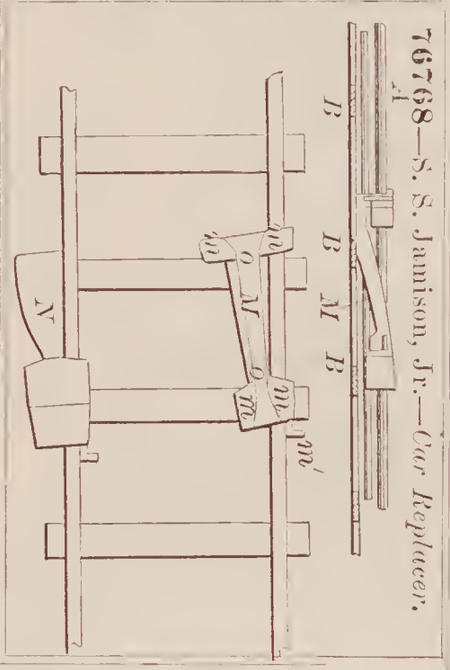
76764—M. W. House—*Lamp.*



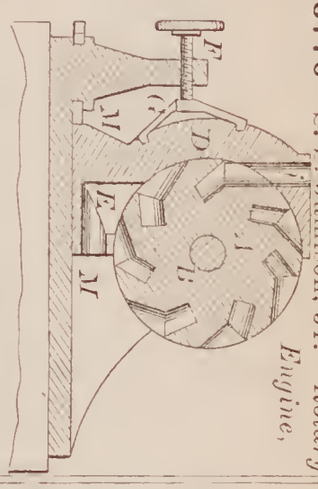
76767—A. S. Jackson—*Lantern.*



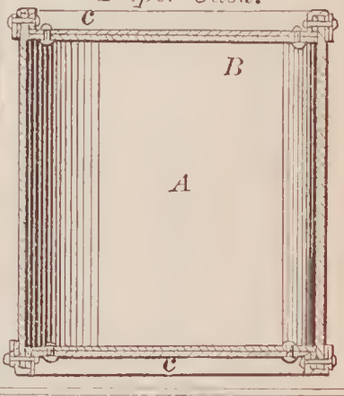
76768—S. S. Jamison, Jr.—*Car Replacer.*



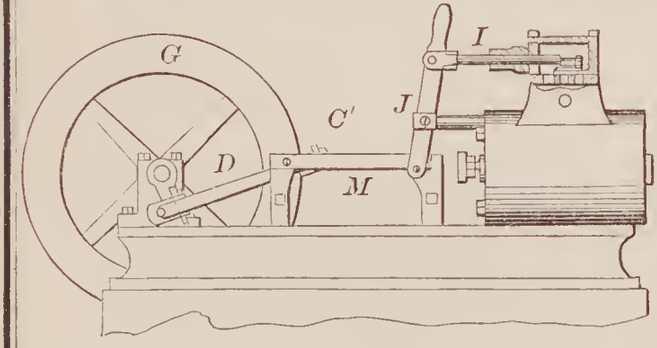
76770—S. S. Jamison, Jr.—*Rotary Engine.*

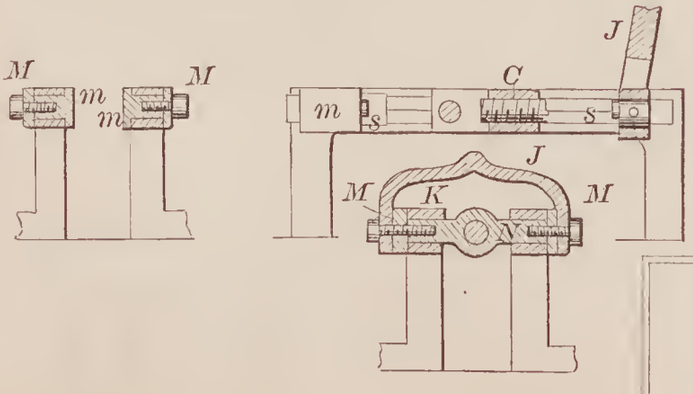


76771—J. W. Jarboe—*Paper Cask.*

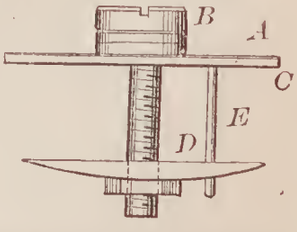


76769—S. S. Jamison, Jr.—*Valve Gear.*

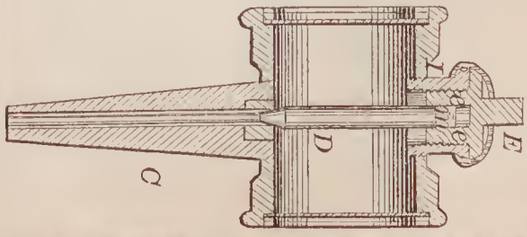




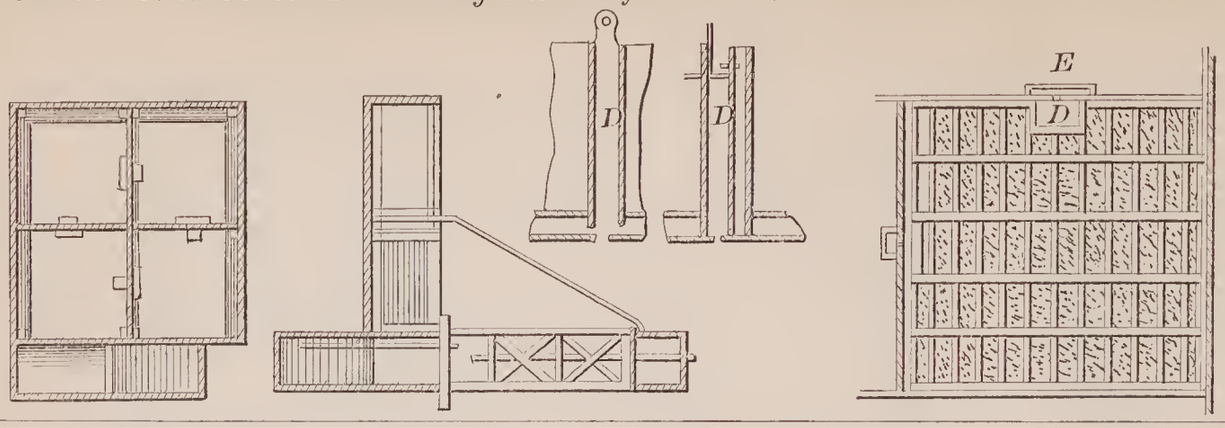
76772—E. T. Jenkins—*For Closing the Mouths of Jars.*



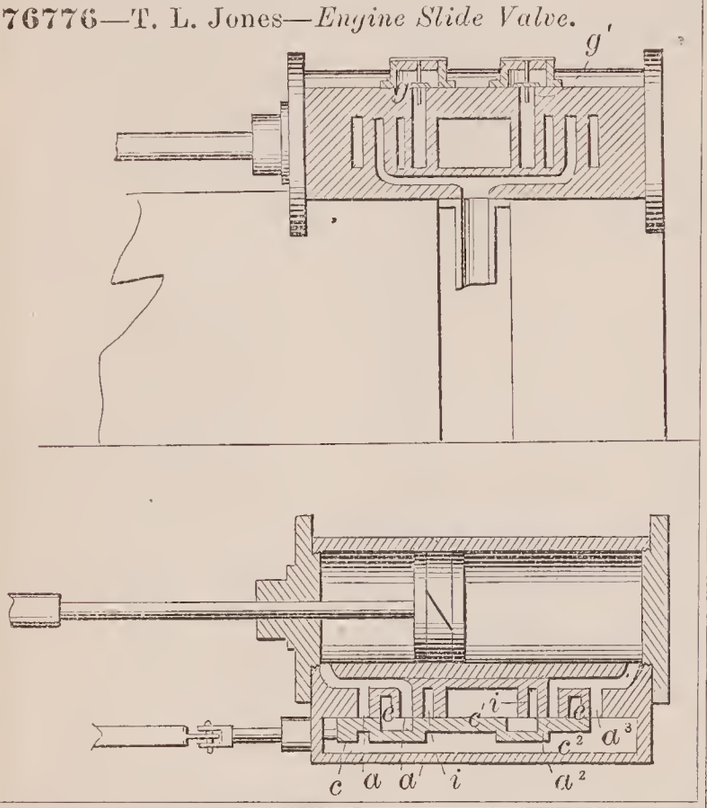
76774—E. Johnson—*Lubricator.*



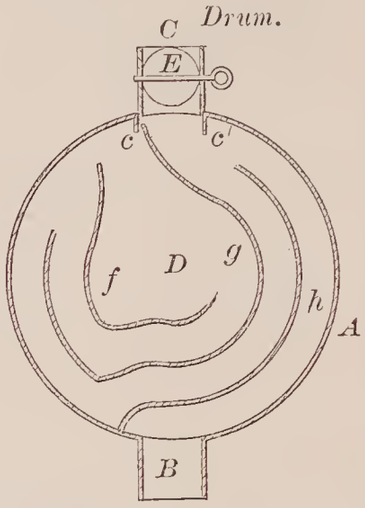
76775—J. W. Jones—*For Making Extracts from Bark.*



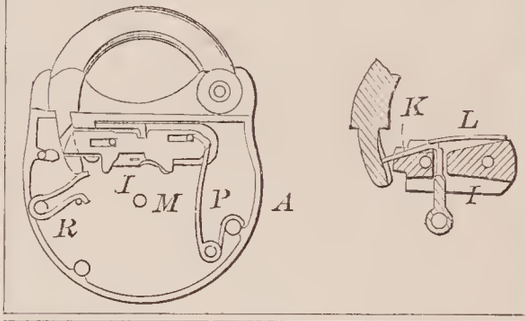
76776—T. L. Jones—*Engine Slide Valve.*



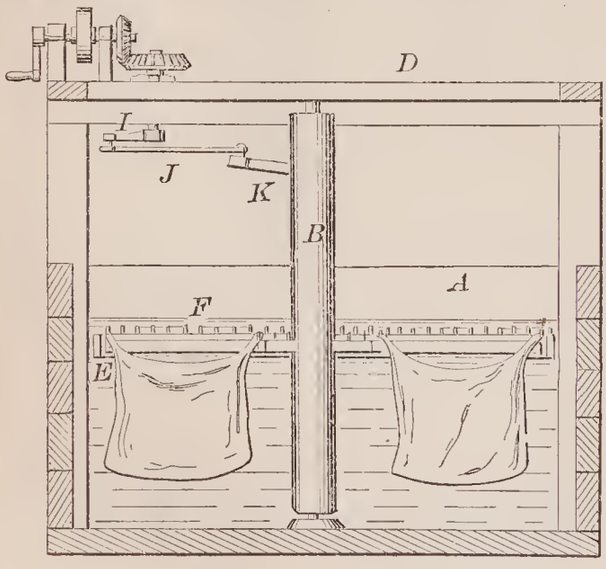
76779—D. Knowlton—*Stove Pipe Drum.*



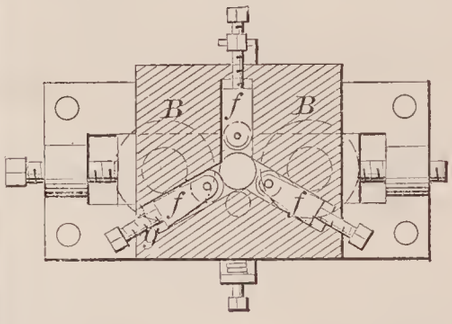
76780—J. E. Kohout—*Padlock.*

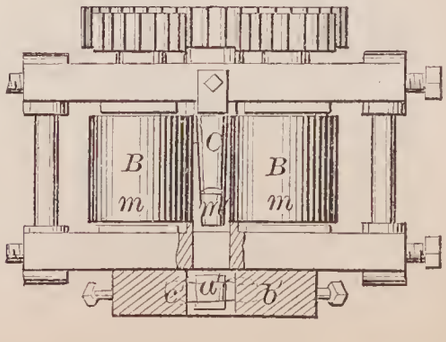


76777—L. L. Kelly—*For Tanning.*

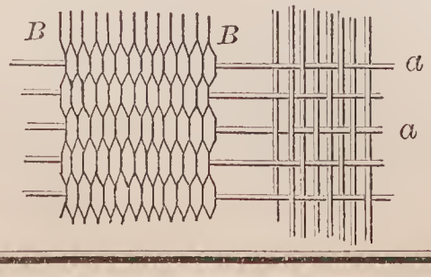


76781—Laforge & Geddes—*For Straightening and Rounding Shafting.*

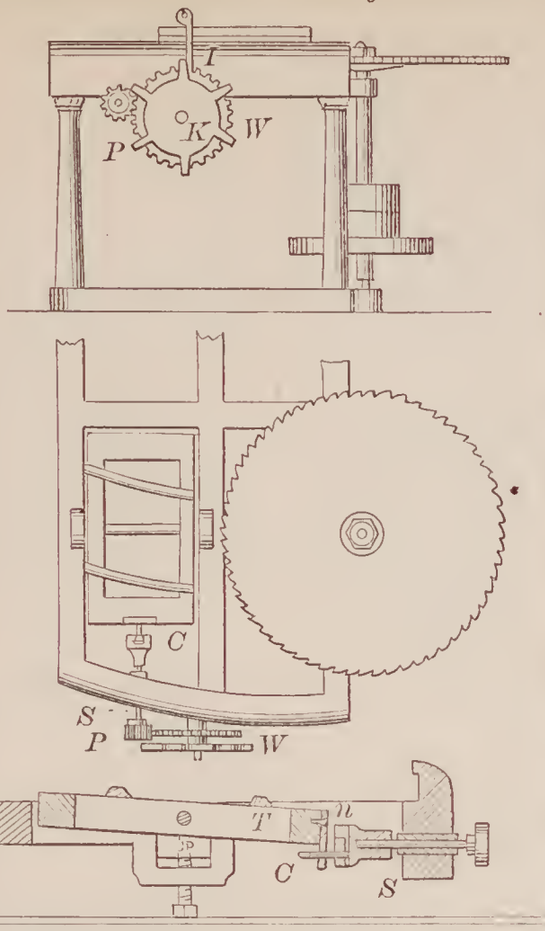




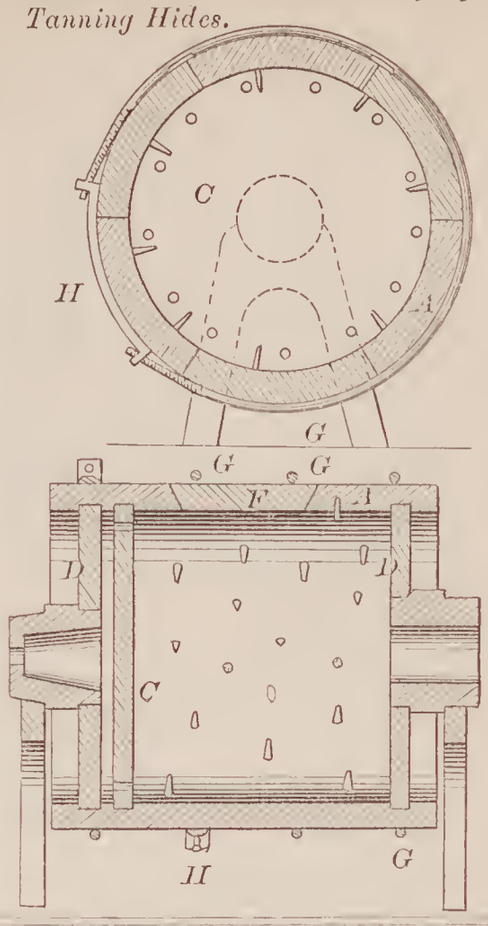
76783—I. Lindsley—*Woven Fabric.*



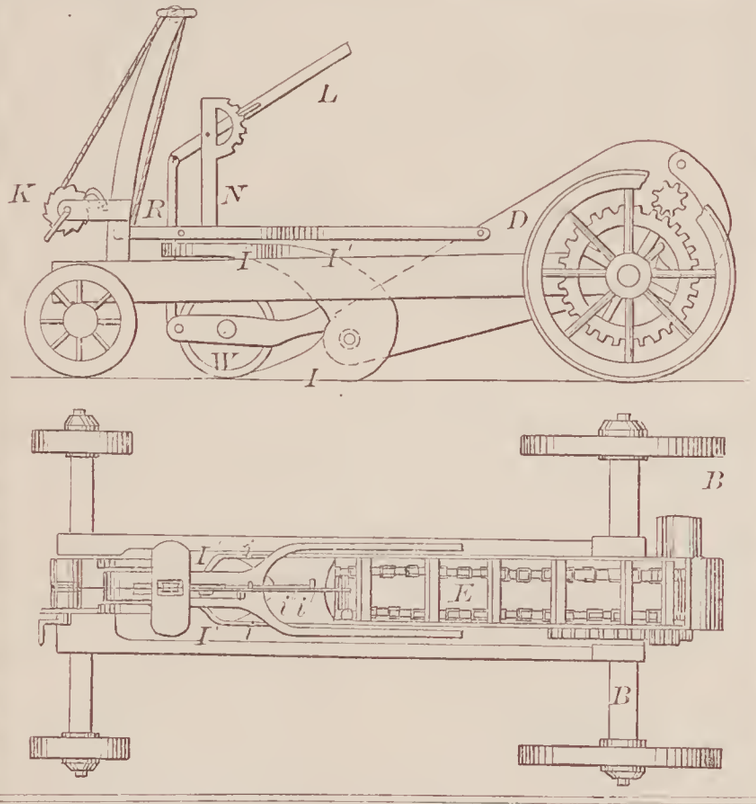
76782—P. H. Lawler—*Shingle Machine.*



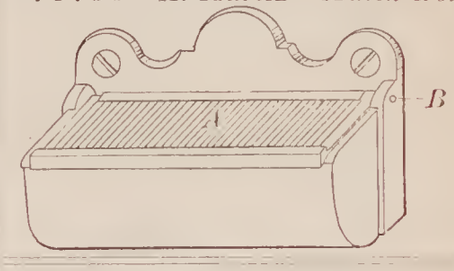
76784—J. W. Lull—*Revolving Cylinder for Tanning Hides.*



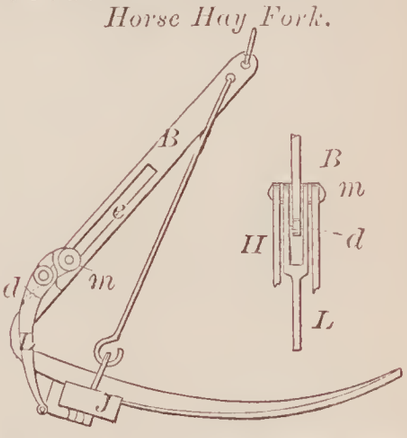
76788—J. Masters—*Ditching Machine.*



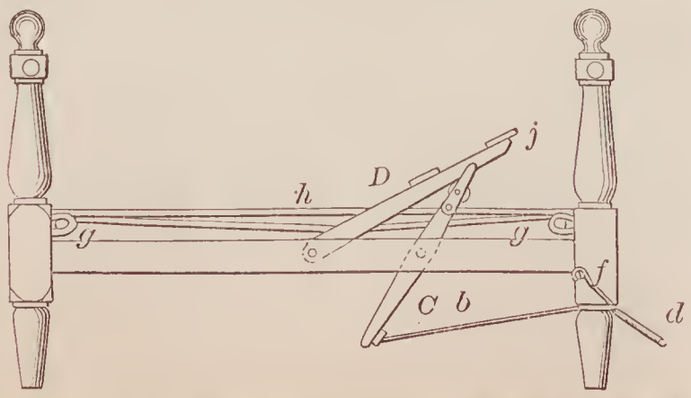
76786—A. Martin—*Match Box.*



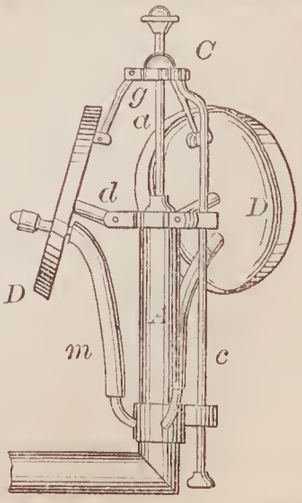
76787—Martin & Blocher—*Horse Hay Fork.*



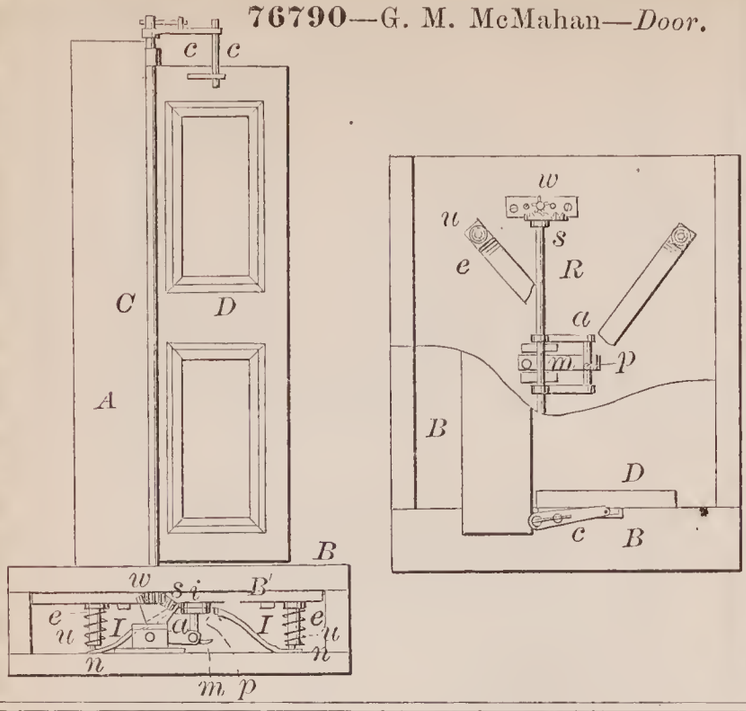
76785—J. S. Mabbett—*Bed Bottom.*



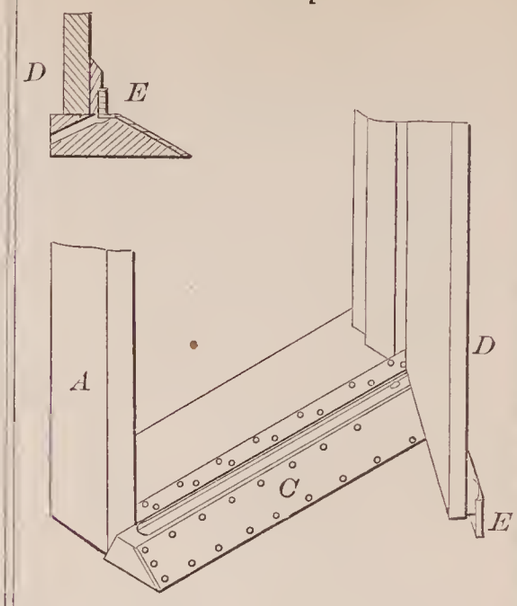
76789—W. J. McLea—*Gas Reflector.*



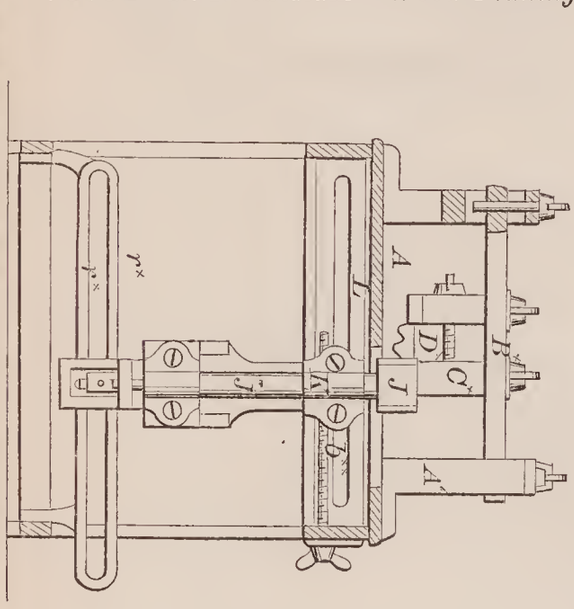
76790—G. M. McMahan—*Door.*

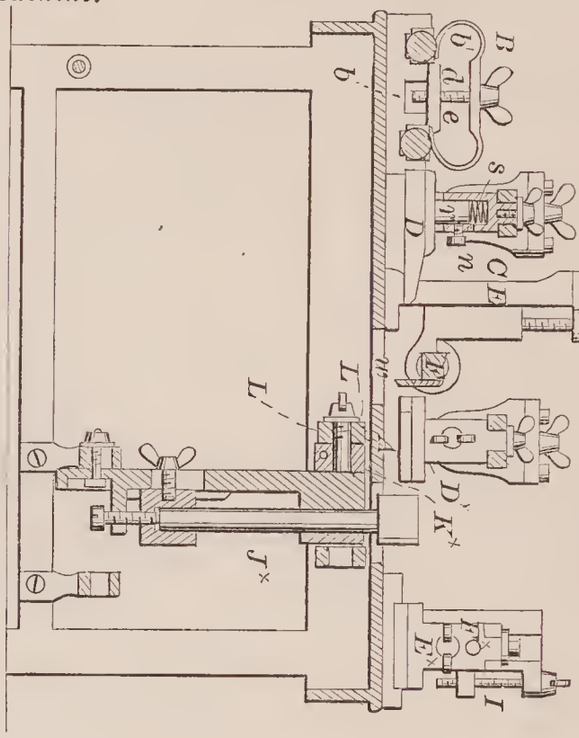


76793—J. R. Mills—*Weather Strip.*

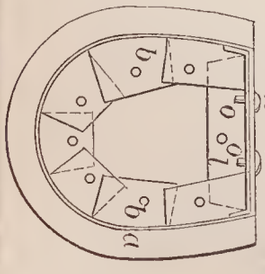


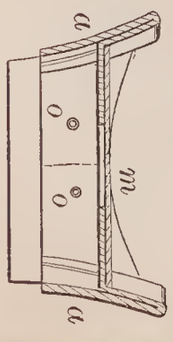
76791—R. N. Meriam—*Wood Planing Machine.*



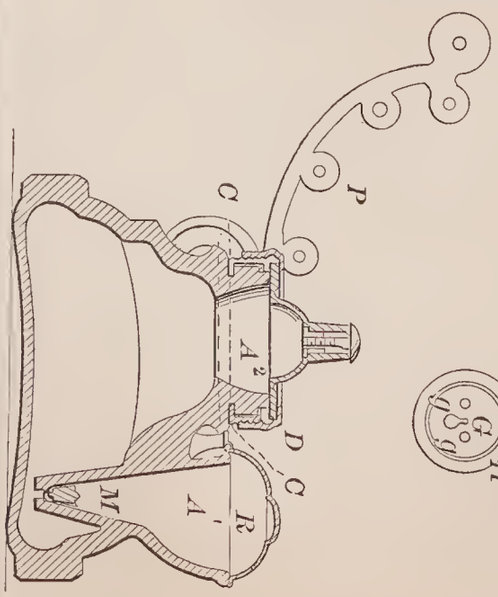


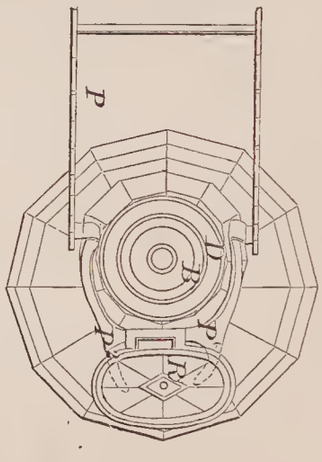
76794—J. R. Moffitt—*Heel Casing.*



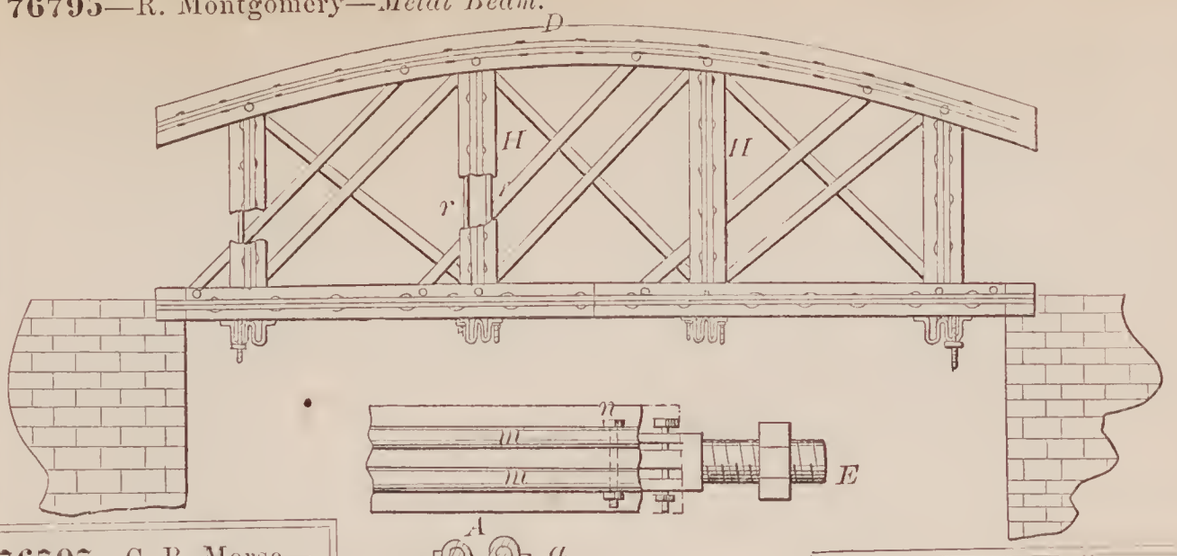


76792—G. Merritt—*Inkstand.*



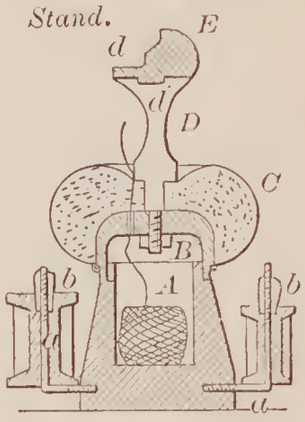


76795—R. Montgomery—*Metal Beam.*

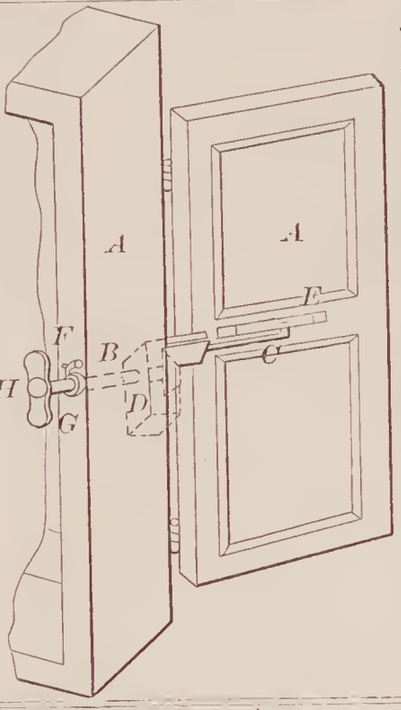


76797—C. B. Morse—*Making Rings for Ring Spinning.*

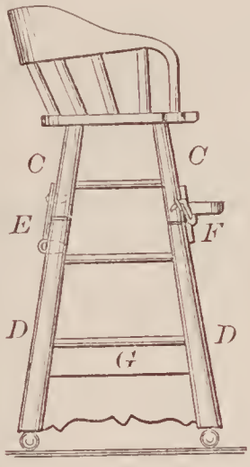
76796—I. Morris—*Work Stand.*



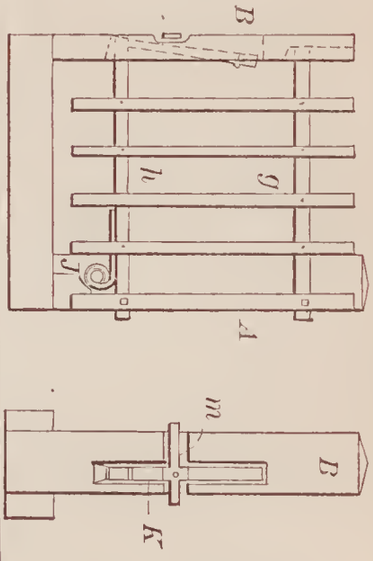
76799—D. B. & C. C. Mosher—*Window Blind Fastener.*



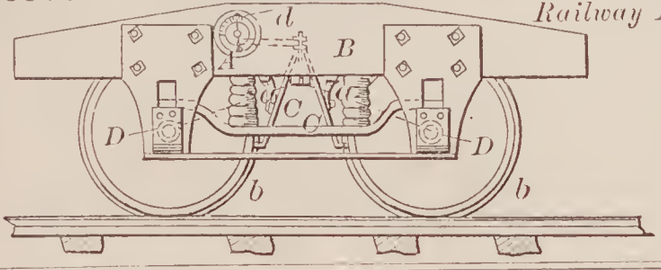
76801—J. Nichols—*Chair.*



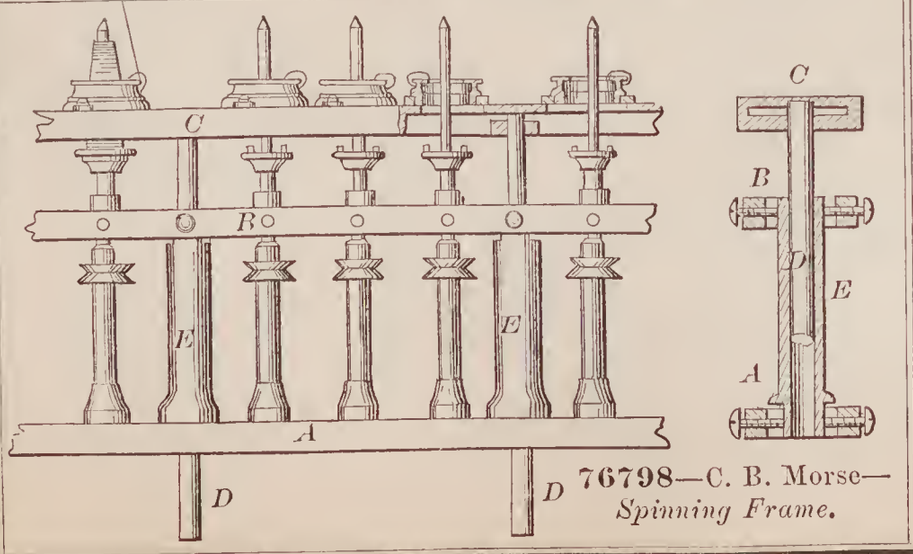
76800—E. M. Naramore—*Gate.*



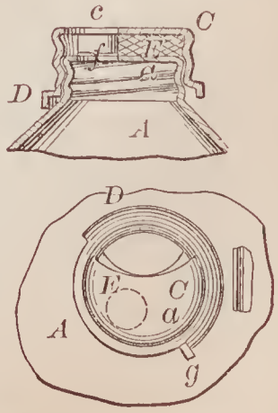
76803—L. E. Osborn—*Indicator for Springing Railway Axles.*



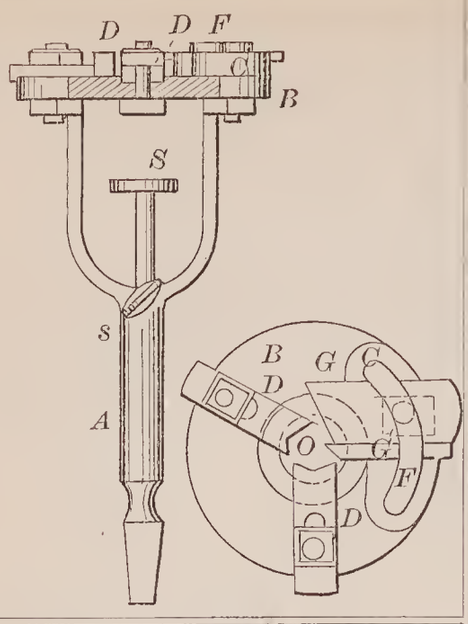
76798—C. B. Morse—*Spinning Frame.*



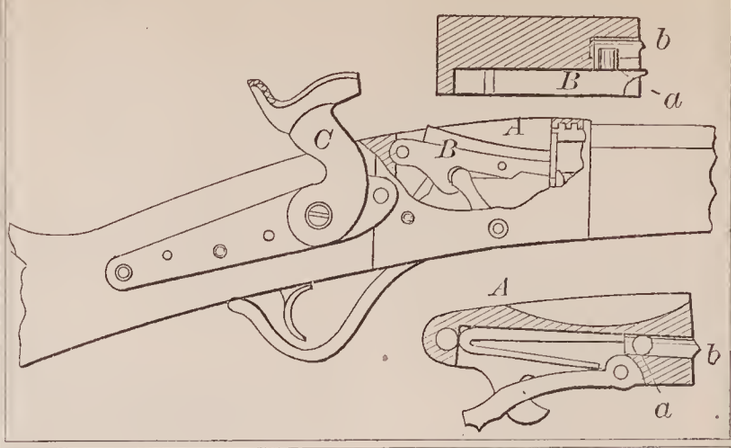
76802—J. H. Noyes—*Oil Can Cap.*



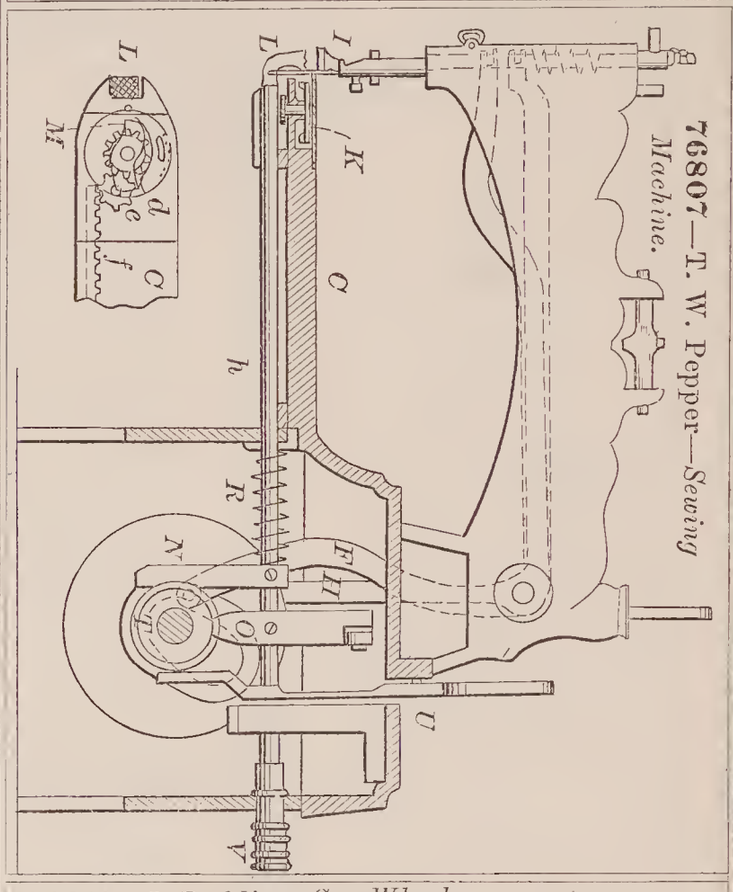
76804—J. L. Parker—*Hollow Auger.*



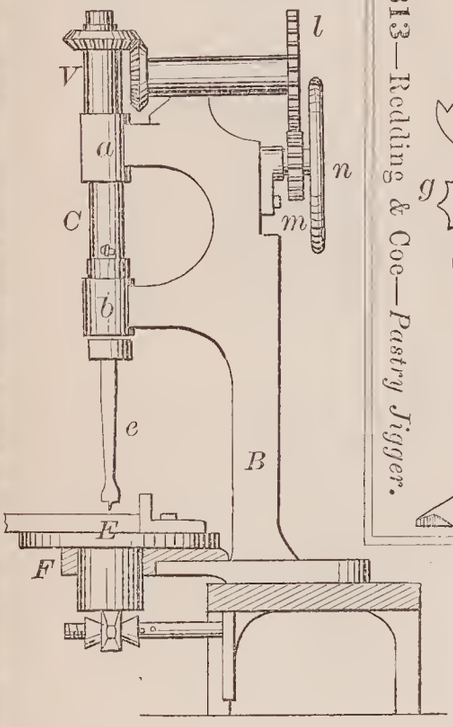
76805—H. O. Peabody—*Fire Arm.*



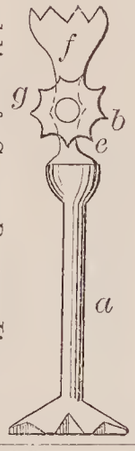
76807—T. W. Pepper—*Sewing Machine.*



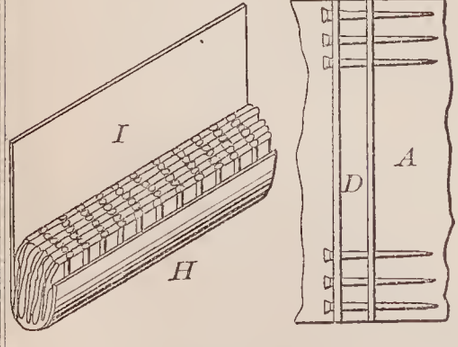
76808—G. B. Phillips—*Mortising Machine.*



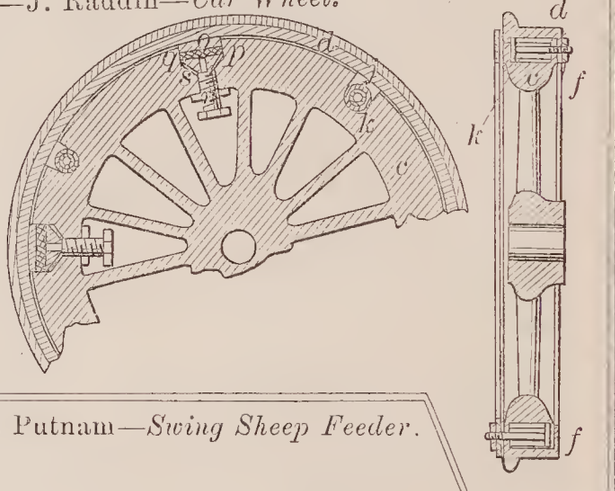
76813—Redding & Coe—*Pastry Jigger.*



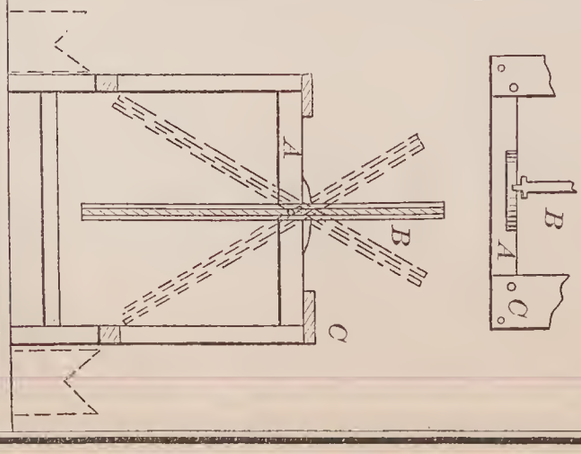
76809—T. Piper—*Pin Book.*



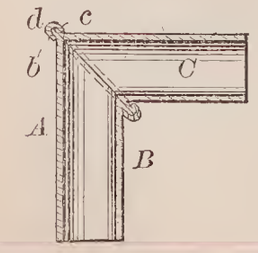
76811—J. Raddin—*Car Wheel.*



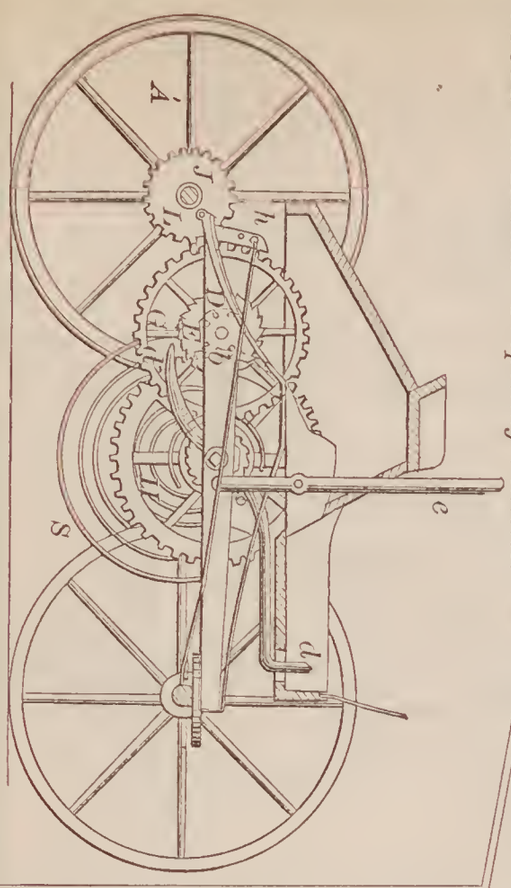
76810—A. Putnam—*Swing Sheep Feeder.*



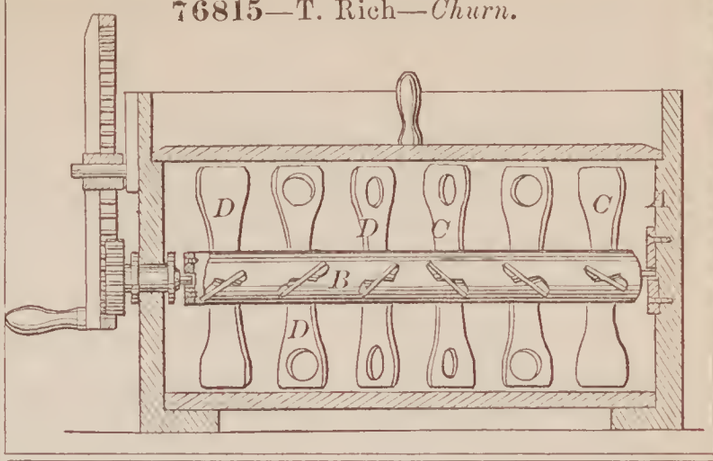
76812—C. Recht—*Stove Pipe Elbow.*



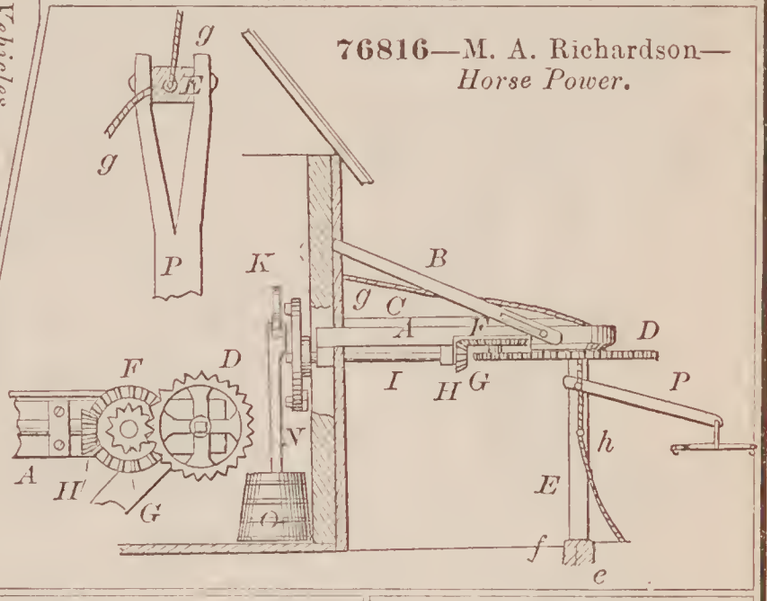
76814—T. Rhoads—*Propelling Vehicles.*



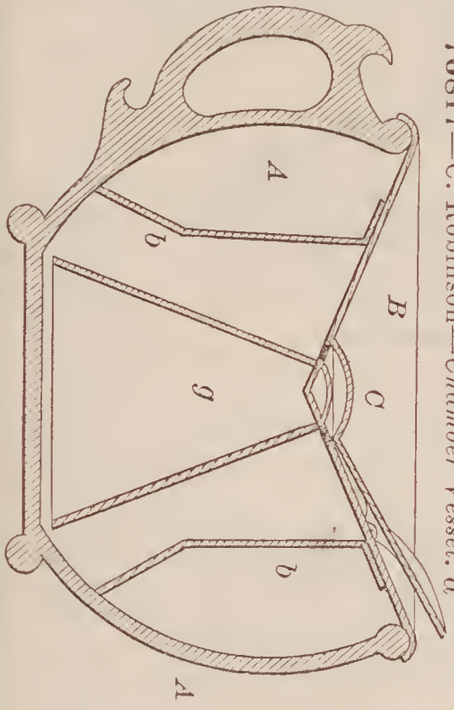
76815—T. Rich—*Churn.*



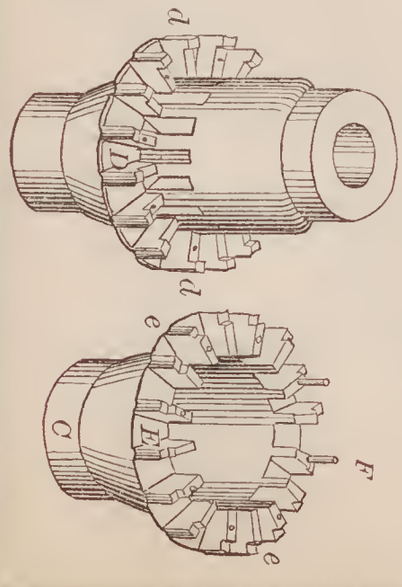
76816—M. A. Richardson—*Horse Power.*



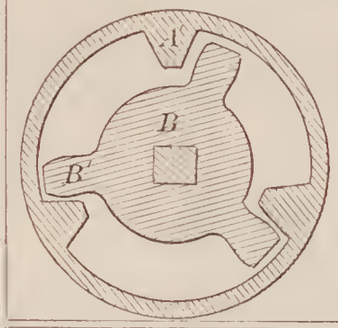
76817—C. Robinson—*Chamber Vessel.* *d*



76818—W. H. Rodeheaver—*Wagon Wheel Hub.*

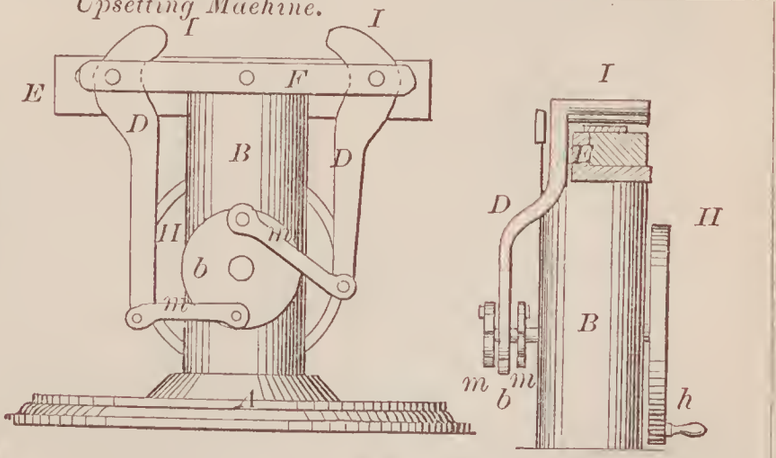


76819—P. G. Ross—*Shaft Coupling.*

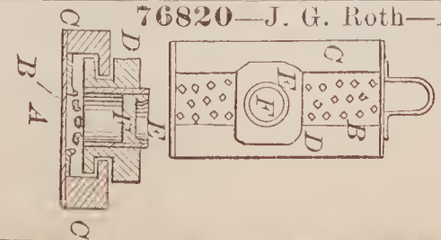


76821—B. L. Rowley—*Flexible Bit for Bridles.*

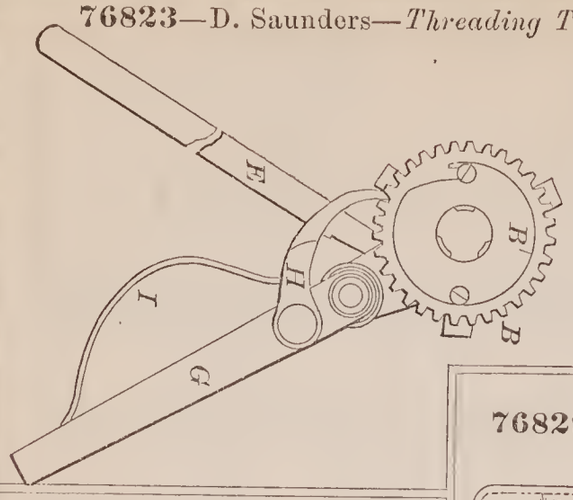
76822—J. F. Sargent—*Upsetting Machine.*



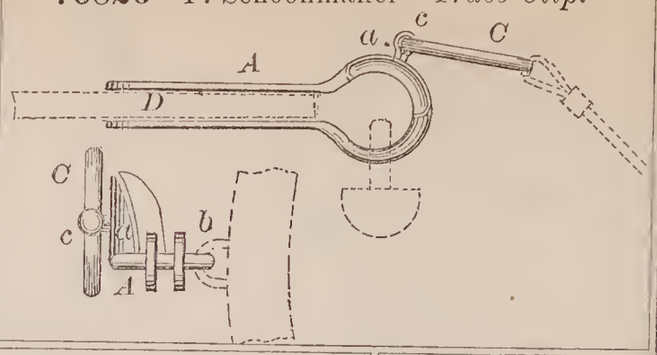
76820—J. G. Roth—*Nutmeg Grater.*



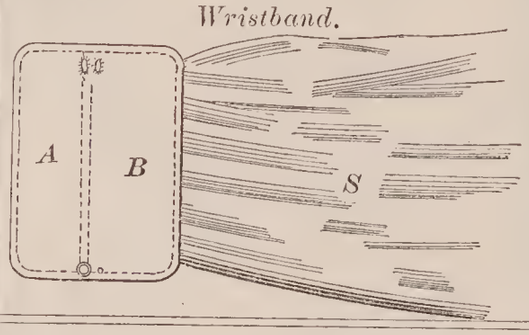
76823—D. Saunders—*Threading Tube.*



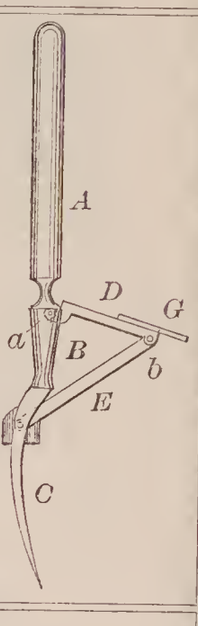
76826—P. Schoonmaker—*Trace Clip.*



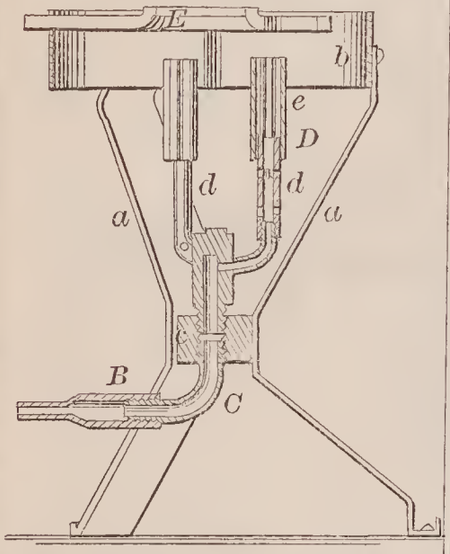
76829—S. H. Scribner—*Shirt Wristband.*



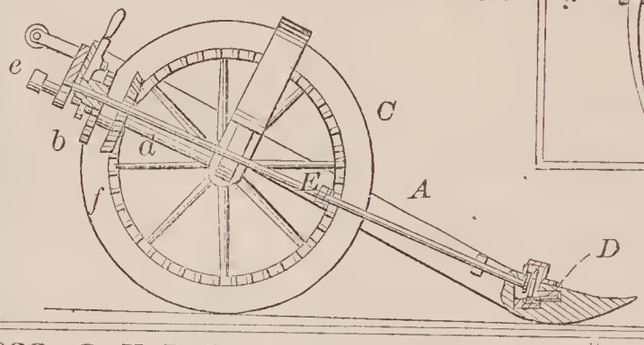
76835—H. Smith—*Cook Fork.*



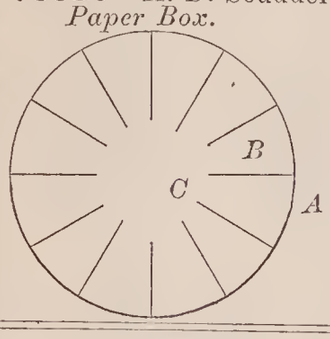
76828—P. Schryer—*Gas Heater.*



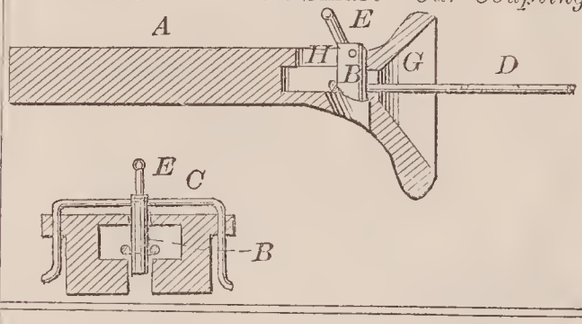
76831—S. W. Sears—*Lawn Mower.*



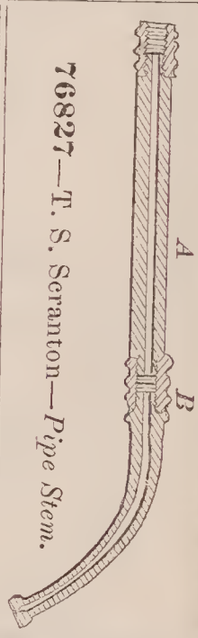
76830—H. D. Scudder—*Paper Box.*

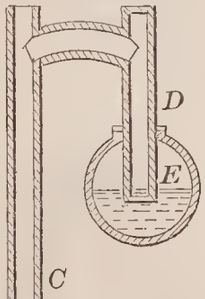


76833—D. V. B. Smart—*Car Coupling.*

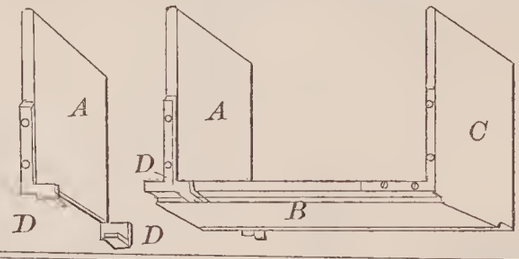


76827—T. S. Scranton—*Pipe Stem.*

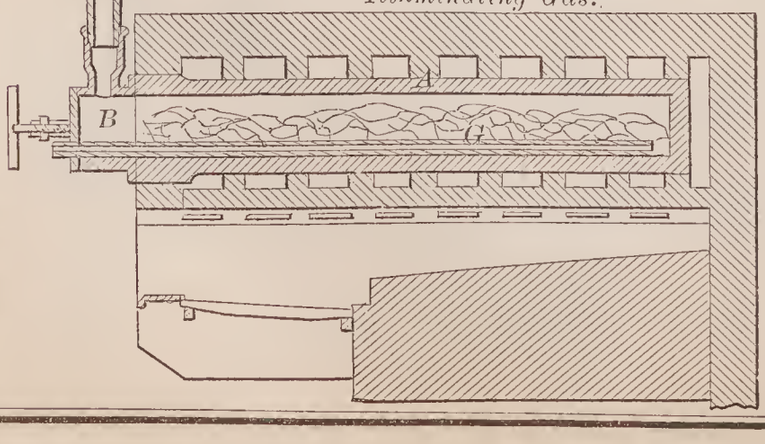




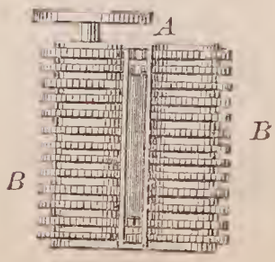
76834—Smith & Cheever—*Paper File.*



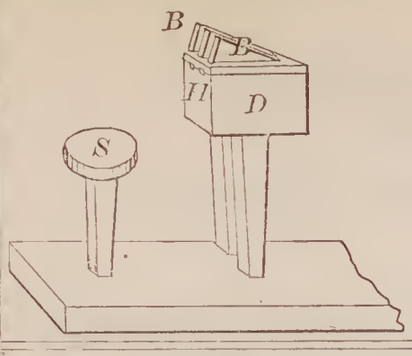
76837—Somerville & Elsdon—*Manufacture of Illuminating Gas.*



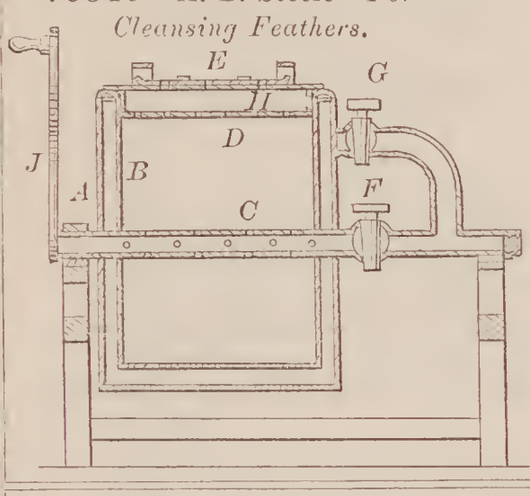
76836—J. H. Smith—*Lamp.*



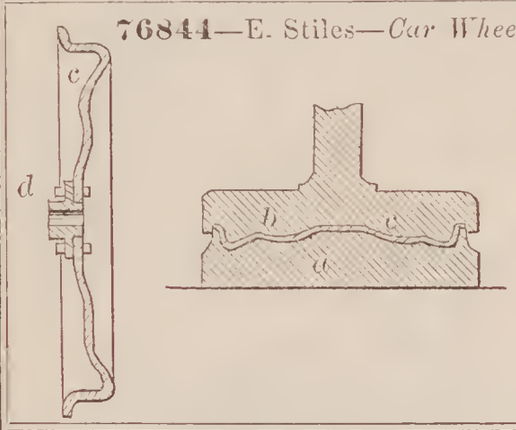
76839—E. I. Stearns—*School Desk.*



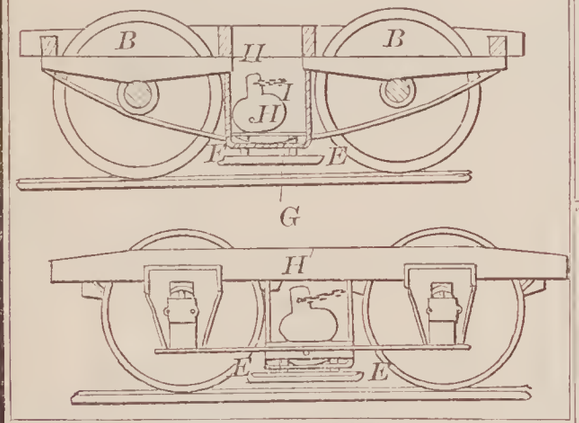
76840—H. B. Steele—*For Cleansing Feathers.*



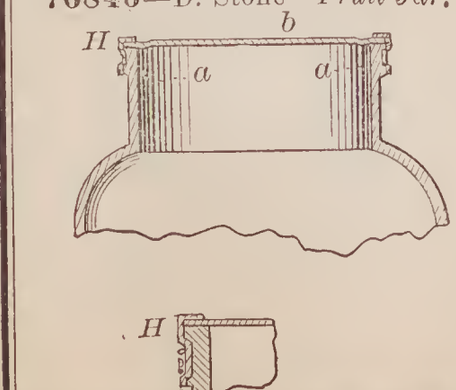
76844—E. Stiles—*Car Wheel.*



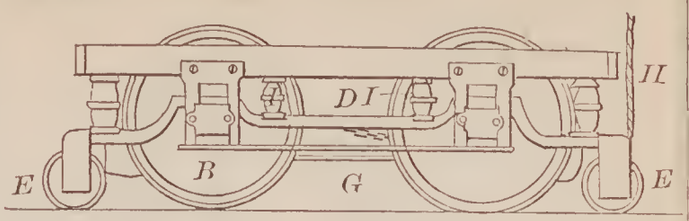
76843—E Stiles—*Car Brake.*

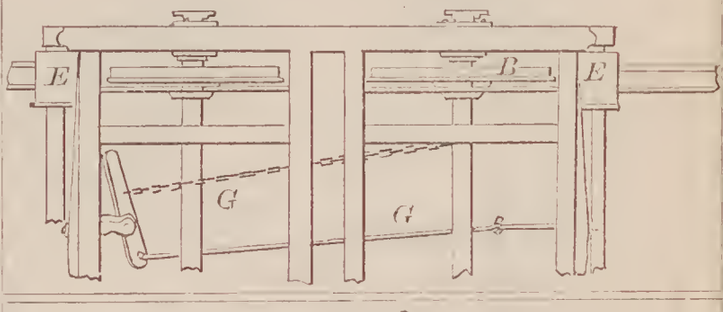


76846—D. Stone—*Fruit Jar.*

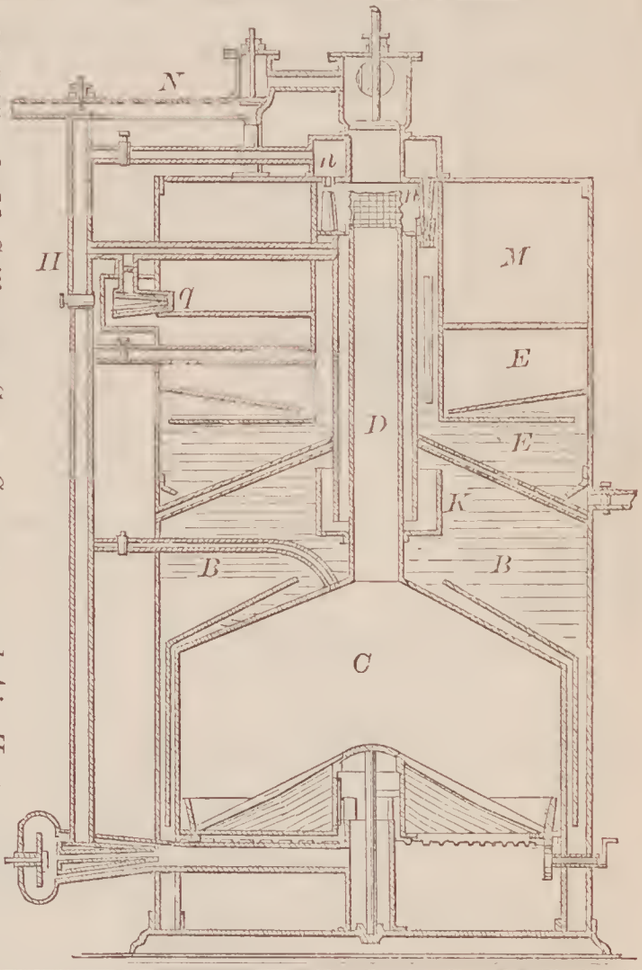


76842—E. Stiles—*Car Truck.*

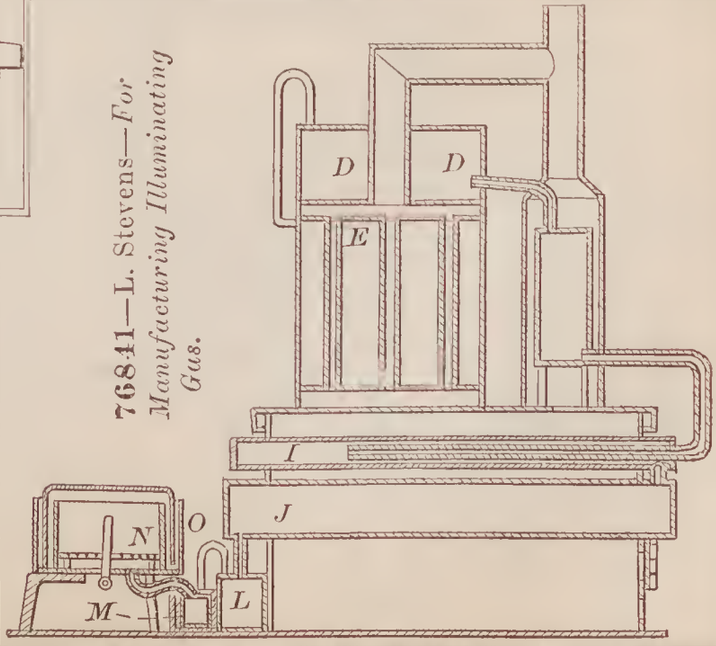




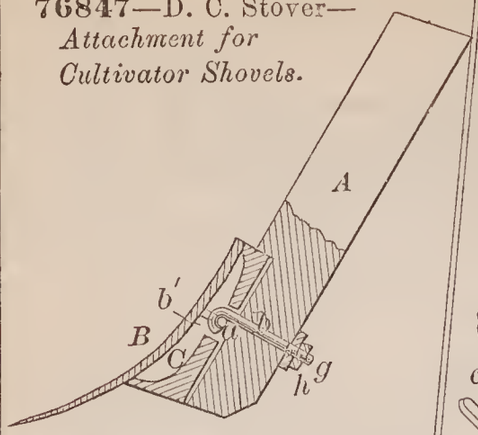
76845—O. M. Stillman—*Steam Generator and Air Heater.*



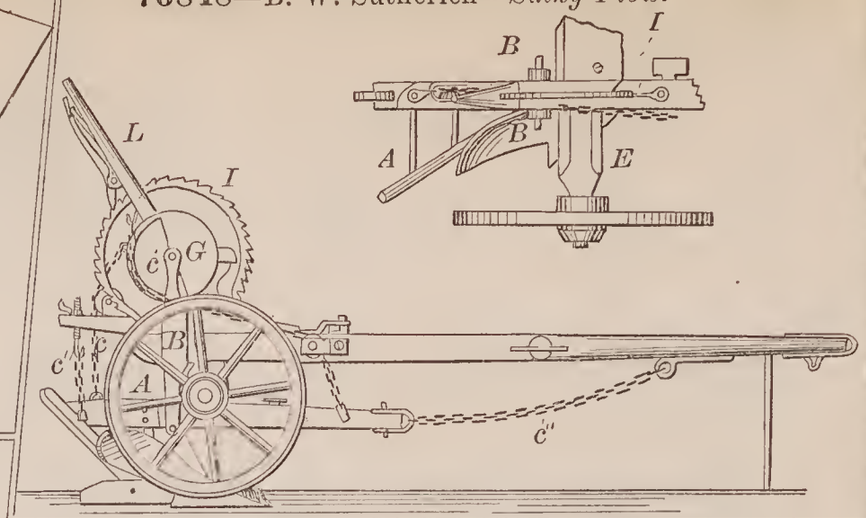
76841—L. Stevens—*For Manufacturing Illuminating Gas.*



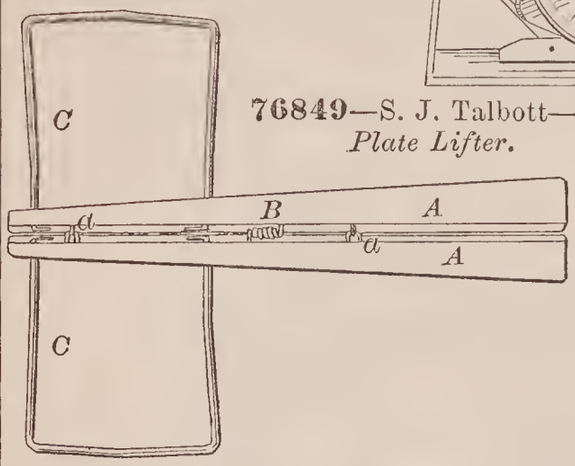
76847—D. C. Stover—*Attachment for Cultivator Shovels.*



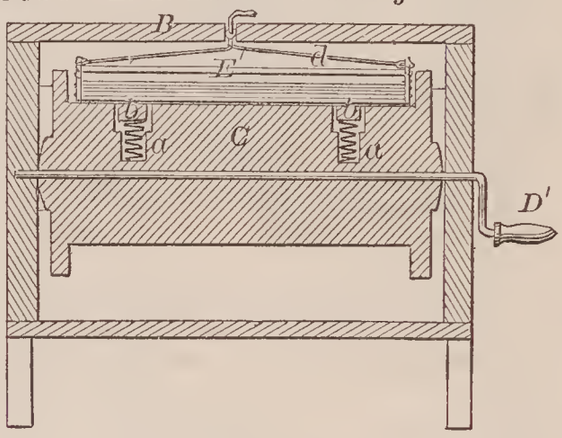
76848—B. W. Sutherlen—*Sulky Plow.*



76849—S. J. Talbott—*Plate Lifter.*

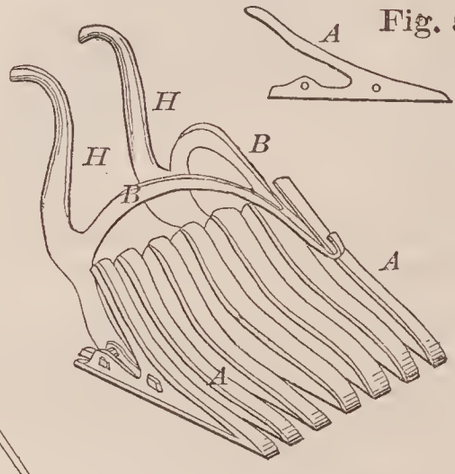


76850—E. T. Tinch—*Washing Machine.*

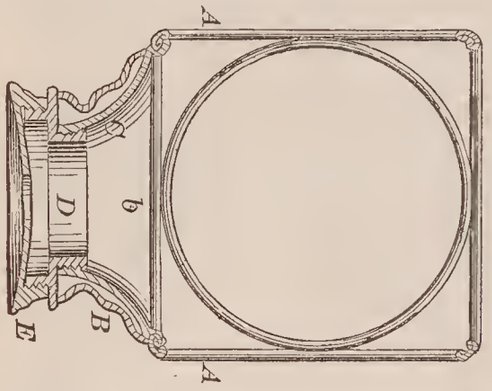


76851—D. J. Tittle—*For Raking Potatoes.*

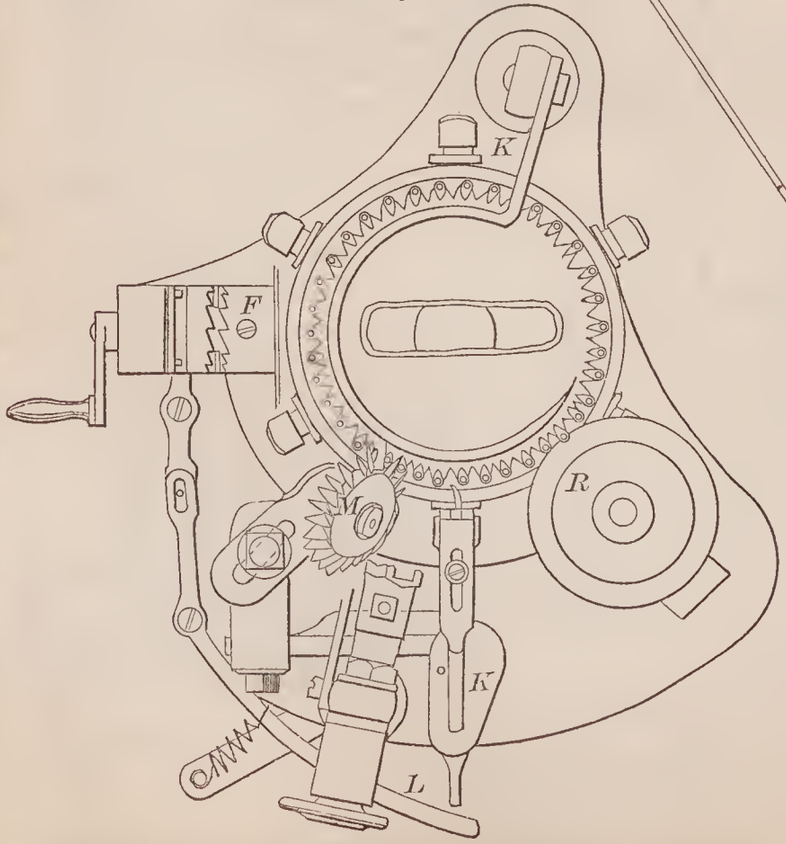
Fig. 5



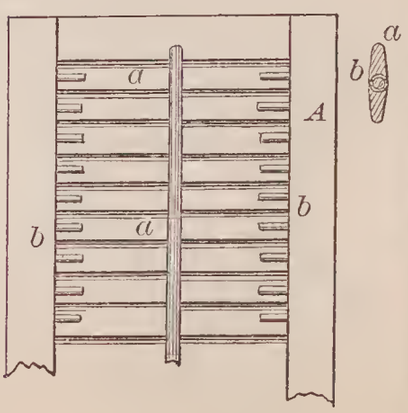
76852—C. F. Waldron—*Vehicle Lamp.*



76854—B. Ward—*Knitting Machine.*



76855—C. H. Warner—*Window Blind.*



76853—A. B. Walker—*For Brewing, Malting, &c.*

Fig. 5

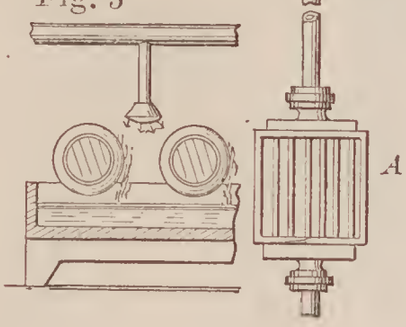


Fig. 1

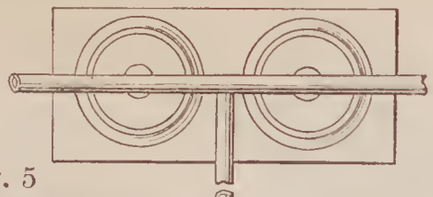


Fig. 2 and 3

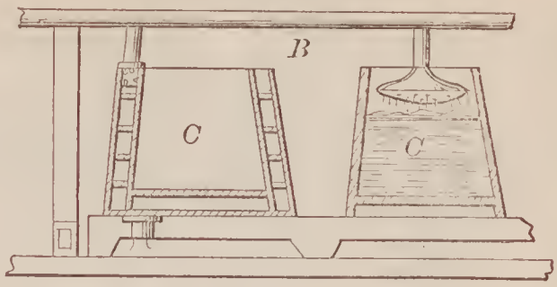


Fig. 12

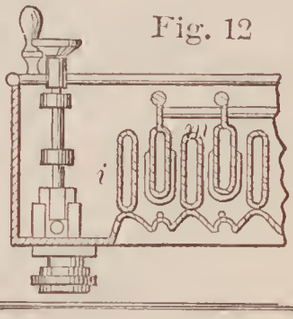


Fig. 6

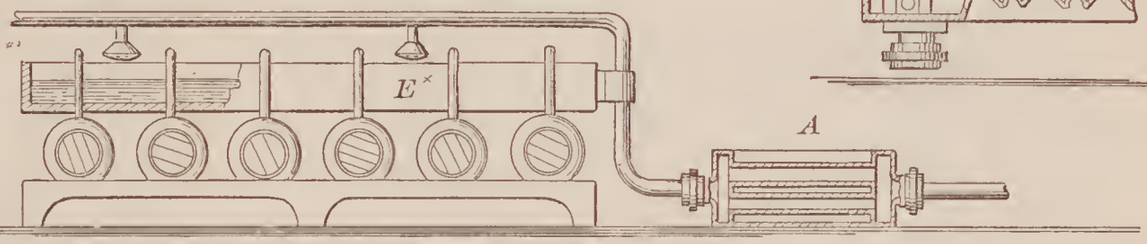


Fig. 7 B

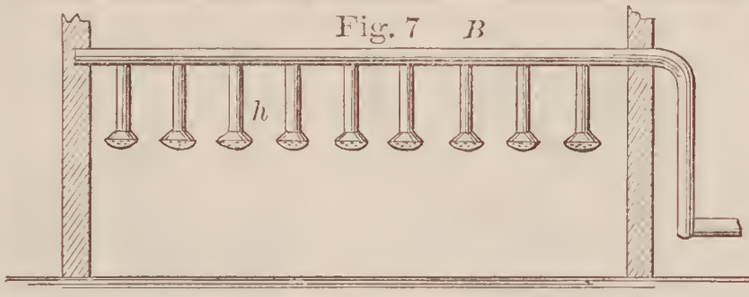


Fig. 4

Fig 10

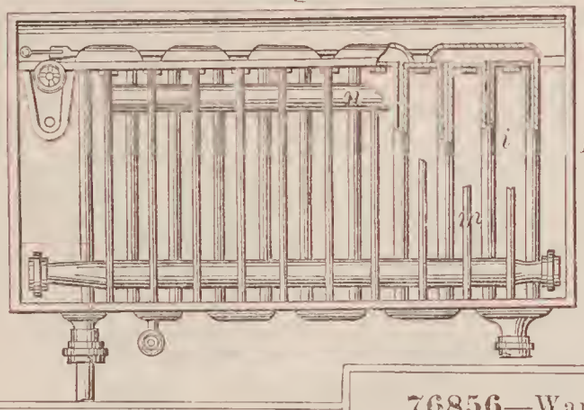
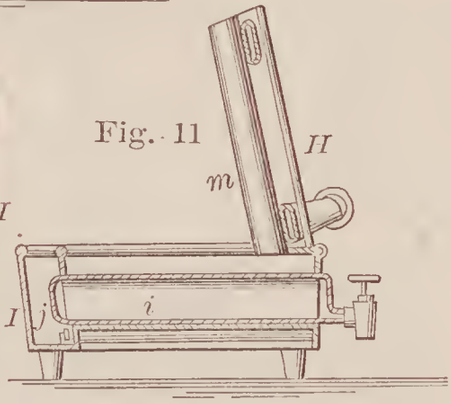
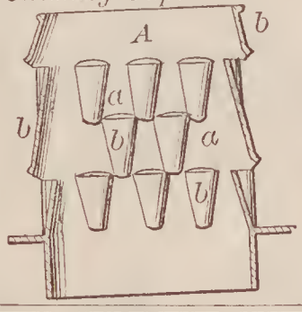


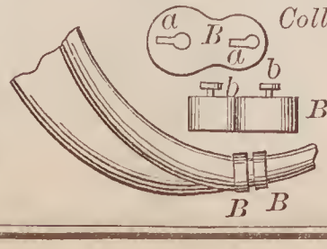
Fig. 11



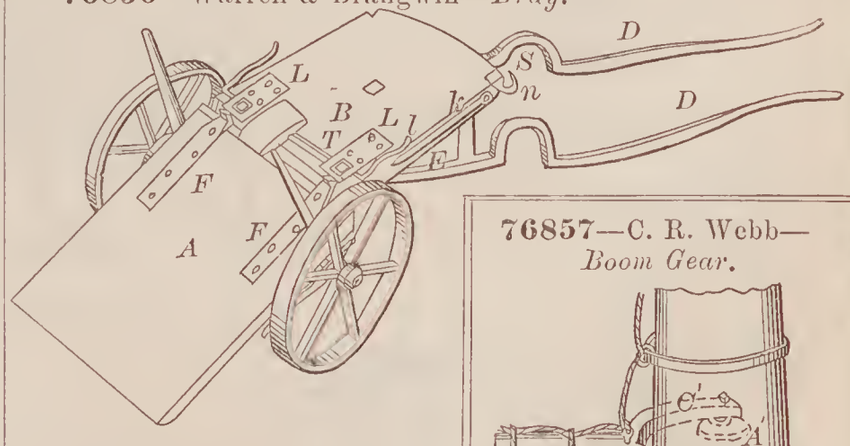
76859—H. J. Weed—*Chimney Cap.*



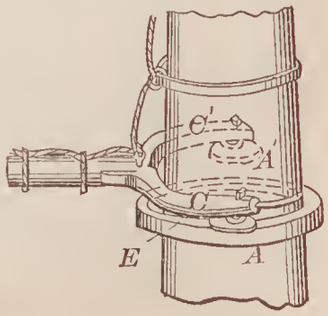
76858—E. Webber—*Horse Collar.*



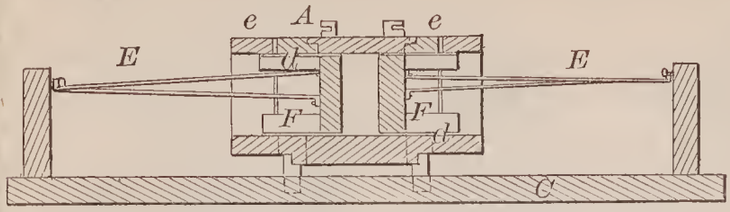
76856—Warren & Brangwin—*Dray.*



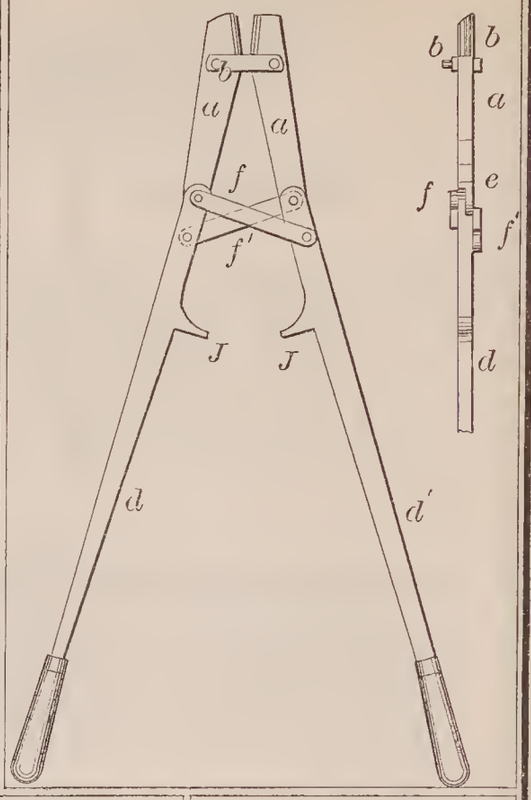
76857—C. R. Webb—*Boom Gear.*



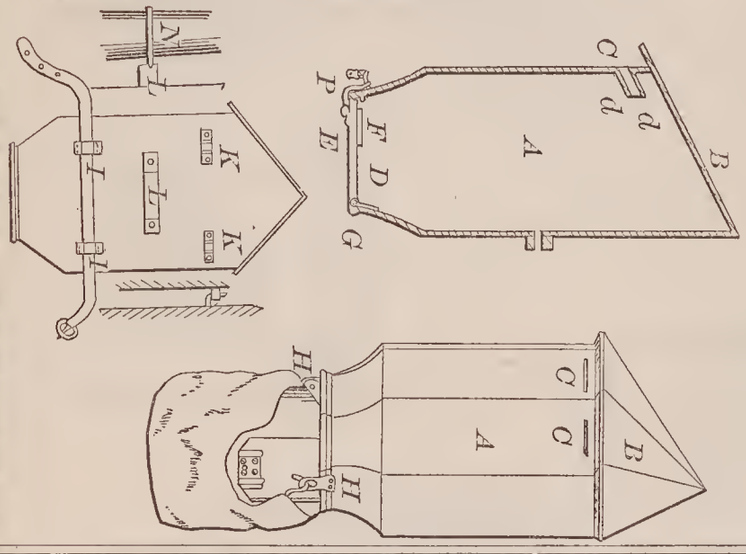
76860—J. Wentz—*Cotton Press.*



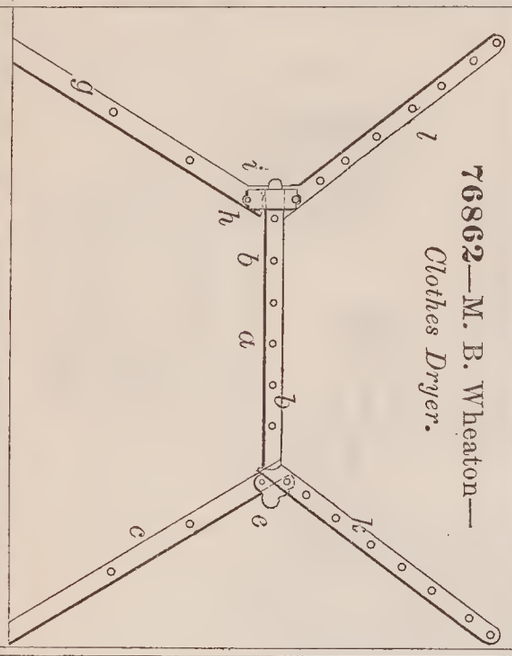
76863—A. B. White—*Bolt Trimmer.*



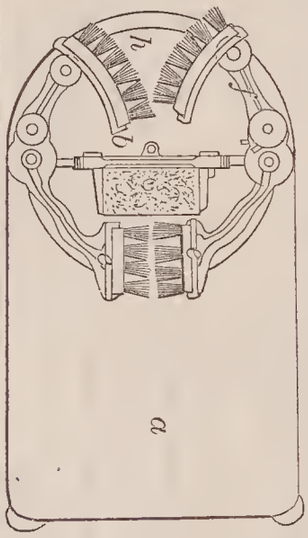
76864—D. & G. H. White—*Street Letter Box.*



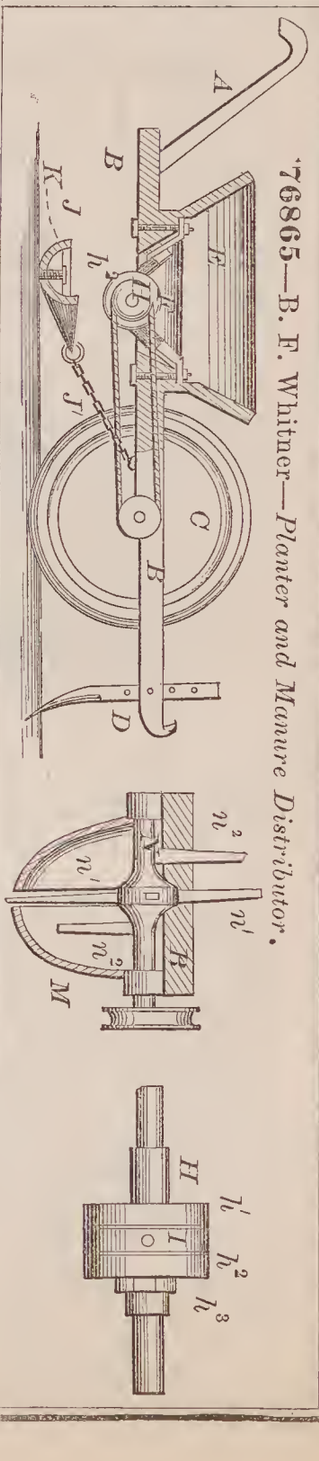
76862—M. B. Wheaton—*Clothes Dryer.*



76866—W. L. Williams—*Foot Scraper.*

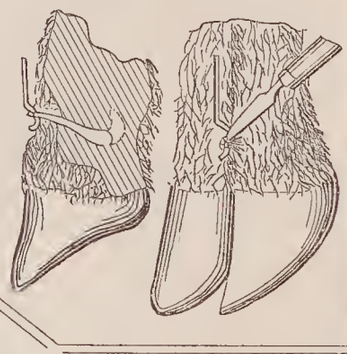


76865—B. F. Whitner—*Planter and Manure Distributor.*

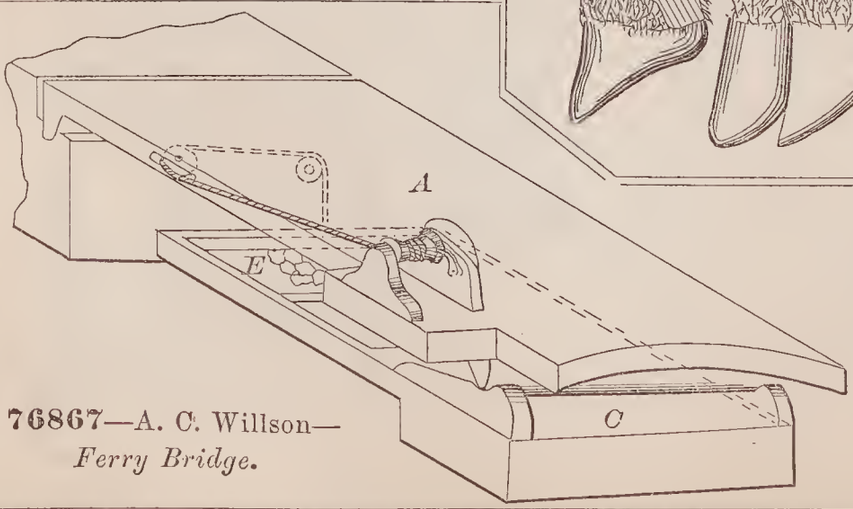


76861—D. M. Weston—*Belt Stud.*

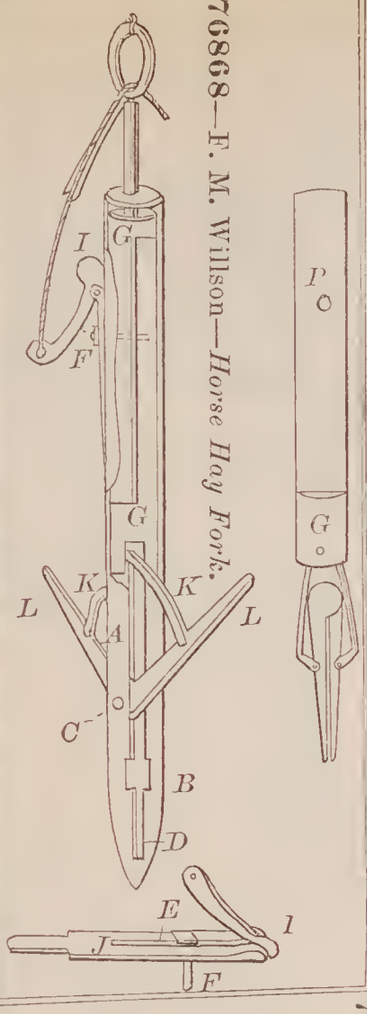
76869—G. Wilson—*Treatment of Foot Rot.*



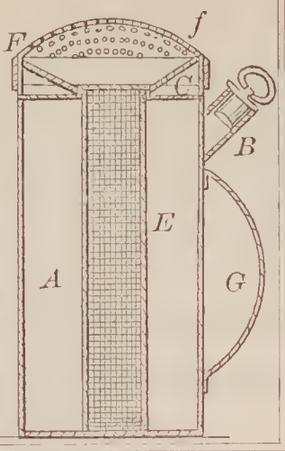
76867—A. C. Willson—*Ferry Bridge.*



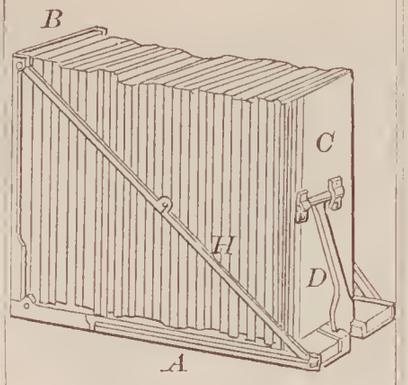
76868—F. M. Willson—*Horse Hay Fork.*



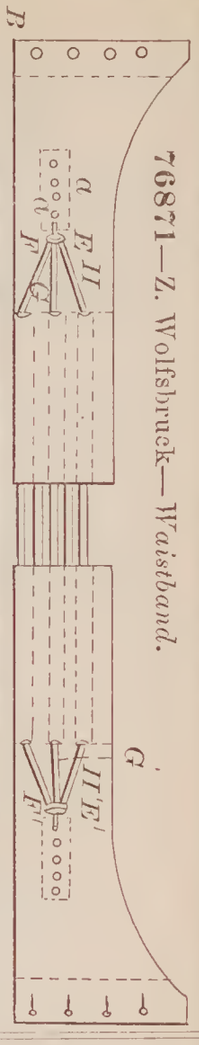
76870—
W. V. Wilson—
Clothes Sprinkler.



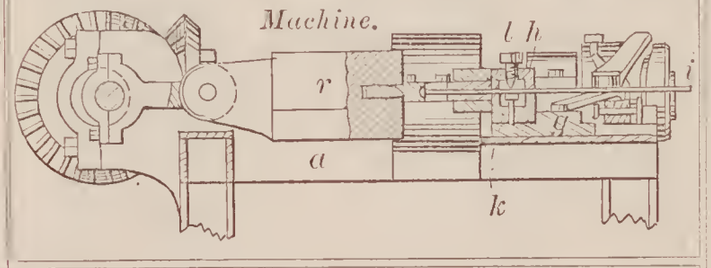
76872—Woodruff & Green—*Paper File.*



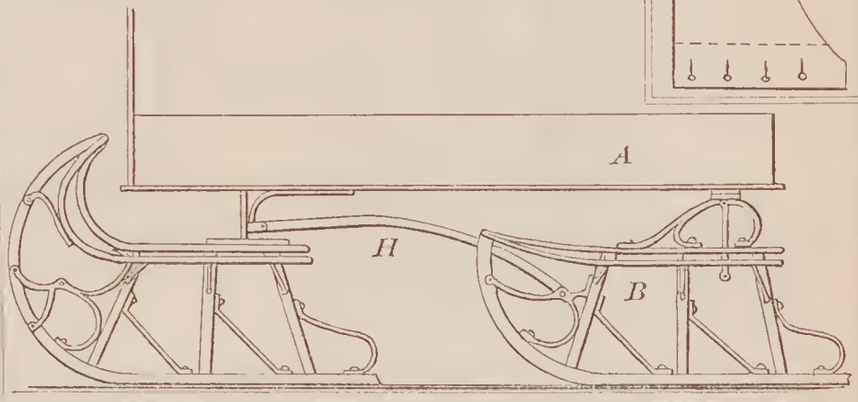
76871—Z. Wolfsbruck—*Waistband.*



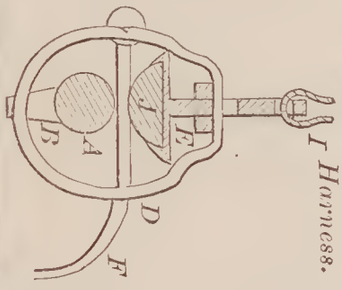
76873—G. Worstenholm—*Bolt and Rivet Machine.*



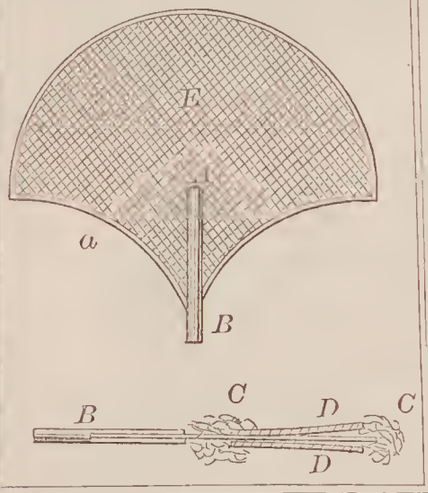
76877—Armstrong & Weller—*Sleigh.*



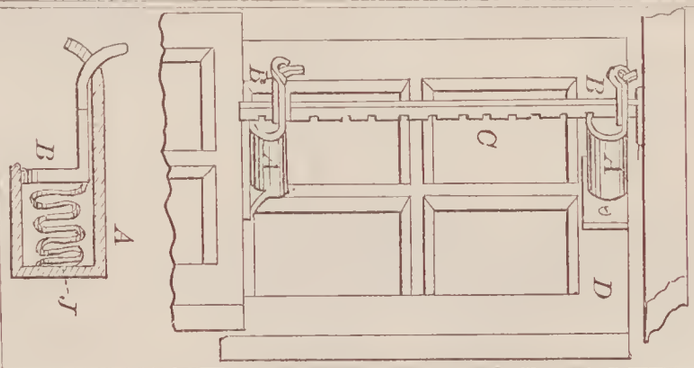
76874—G. M. Zell—*Harness.*



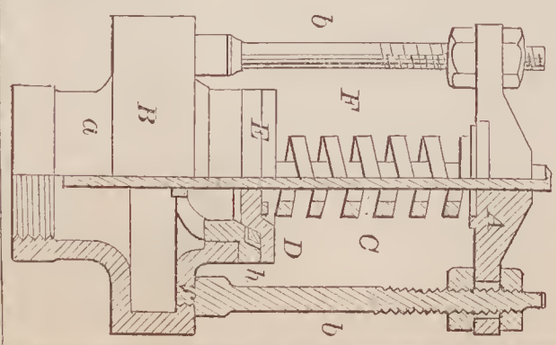
76875—S. Ainsworth—*Fan.*



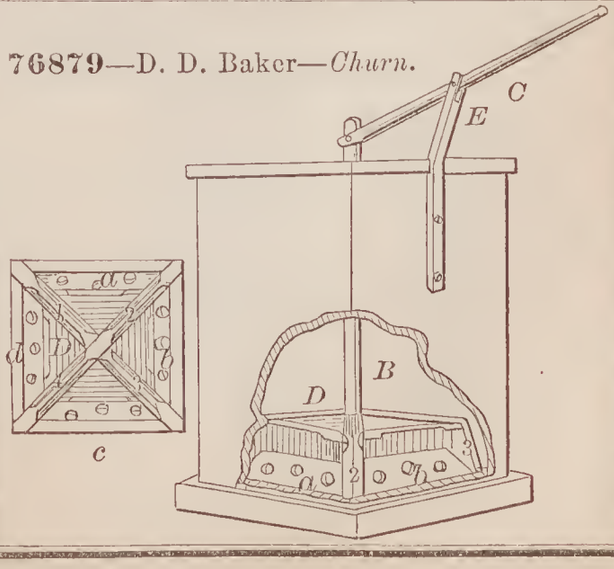
76876—E Andrews—*Window Sash Holder.*



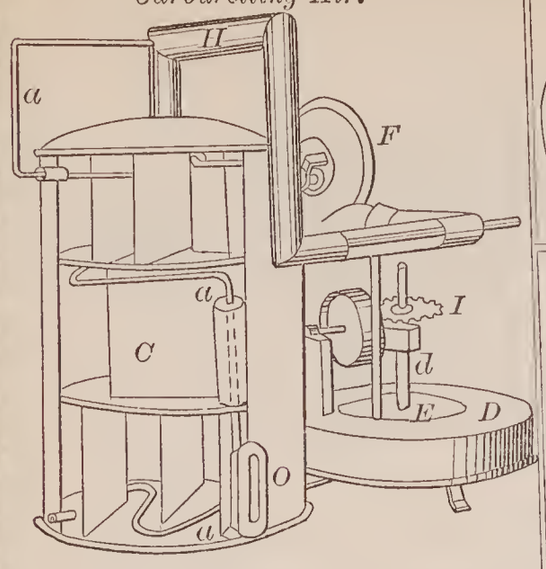
76878—E. H. Ashcroft—*Steam Safety Valve.*



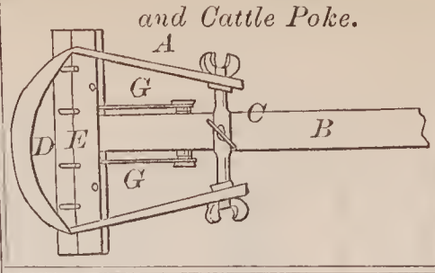
76879—D. D. Baker—*Churn.*



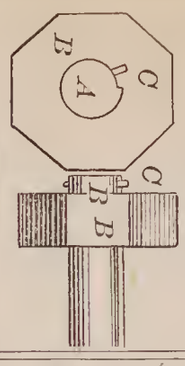
76880—J. F. Barker—*For Carburetting Air.*



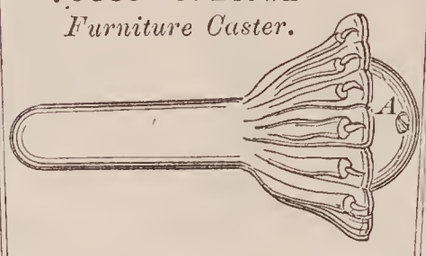
76881—Bell & Fulmer—*Horse and Cattle Poke.*

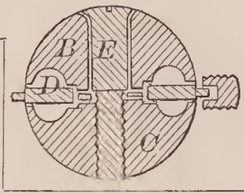


76884—W. Brodhead—*Carpenters' Gauge.*

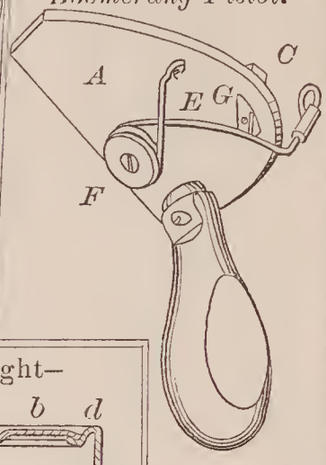


76885—J. Brown—*Furniture Caster.*

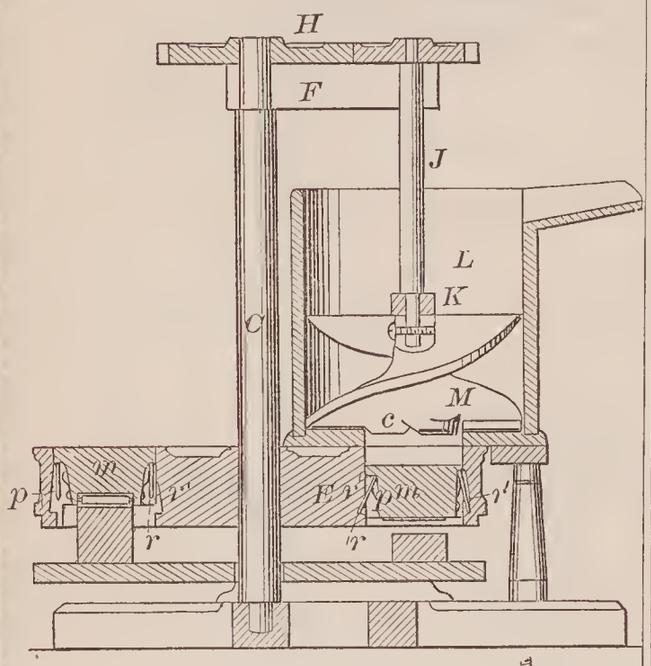


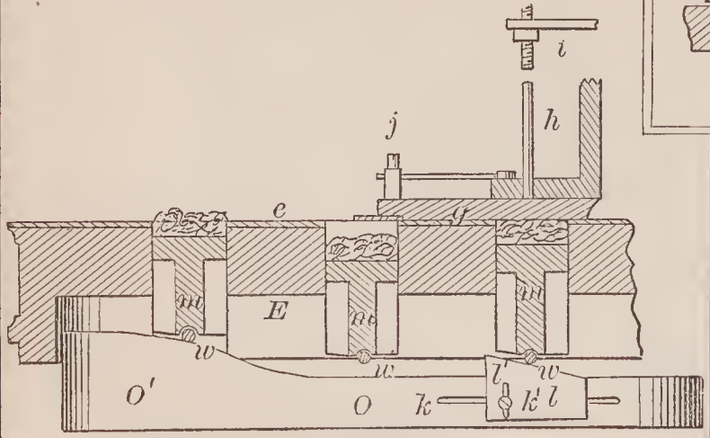


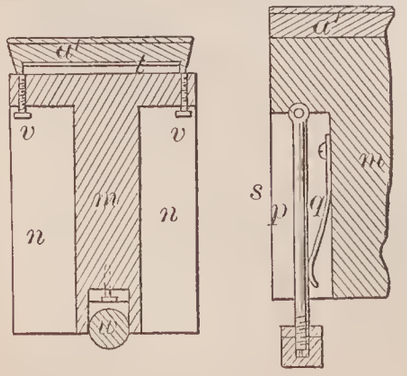
76886—O. B. Brown—*Toy Boomerang Pistol.*



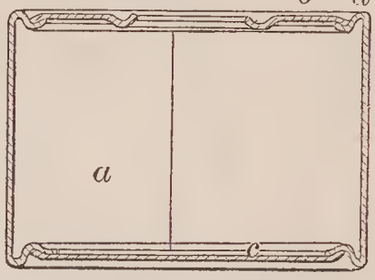
76888—E. P. H. Capron—*Brick Machine.*



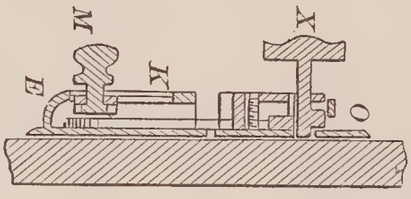




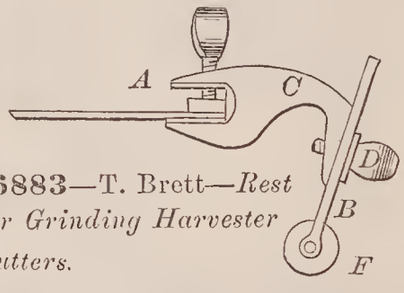
76890—J. Cartwright—*Sheet Metal Can.*



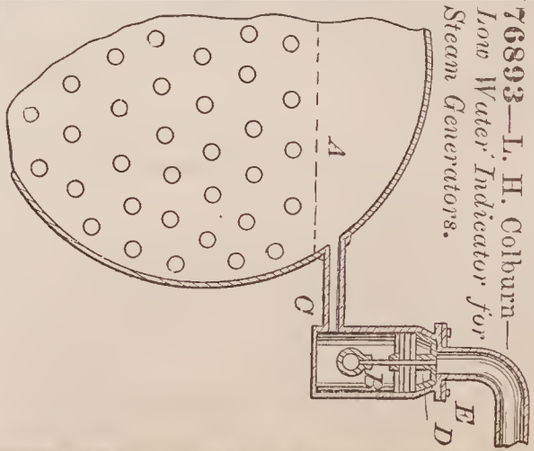
76891—O. Cate—*Sash Fastener.*



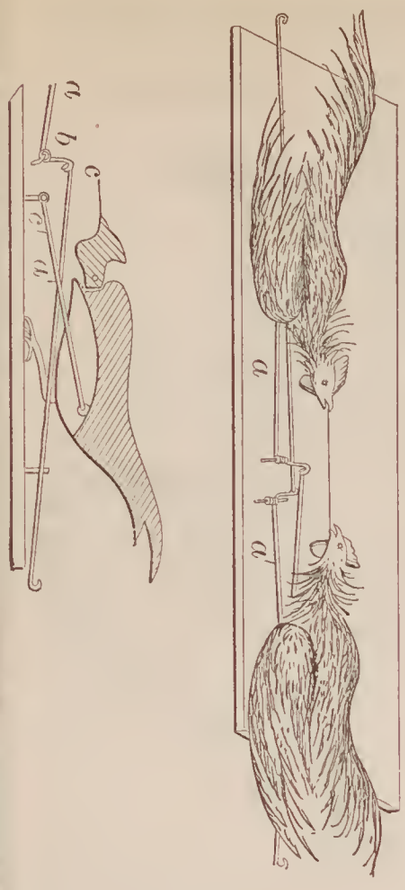
76883—T. Brett—*Rest for Grinding Harvester Cutters.*



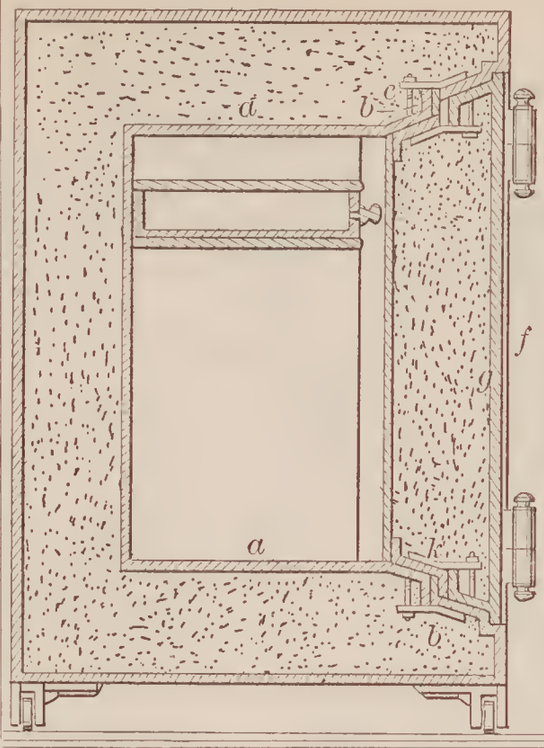
76893—L. H. Colburn—*Low Water Indicator for Steam Generators.*



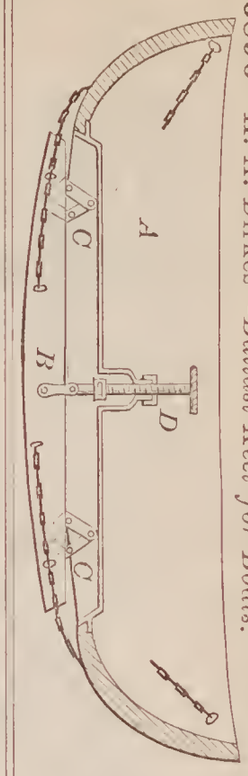
76892—D. Checkeni—*Toy.*



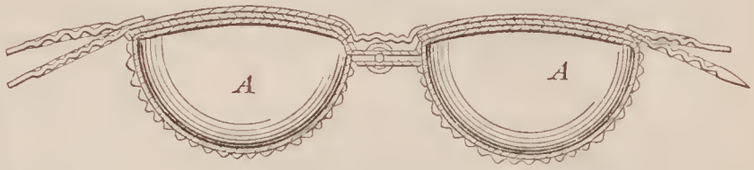
76898—J. Farrel—*Fireproof Safe.*

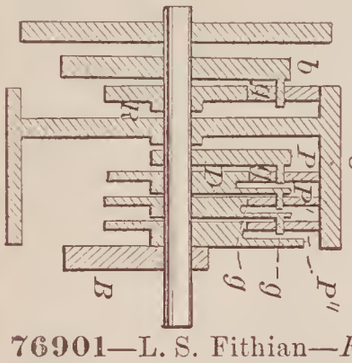


76896—H. A. Dirkes—*Ballast Keel for Boats.*

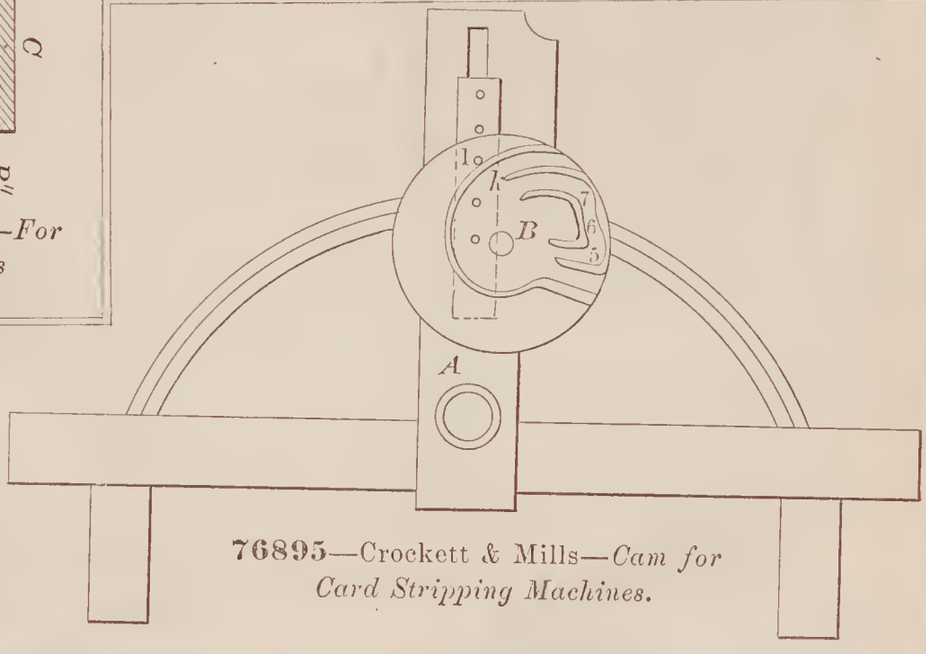


76894—J. C. Cook—*Bosom Pad.*



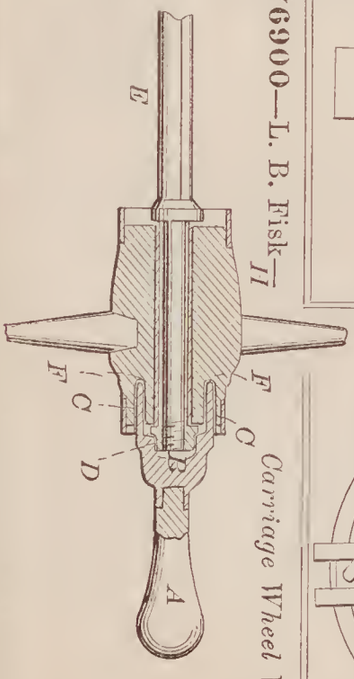


76901—L. S. Fithian—*For Multiplying Revolutions around an Axis.*

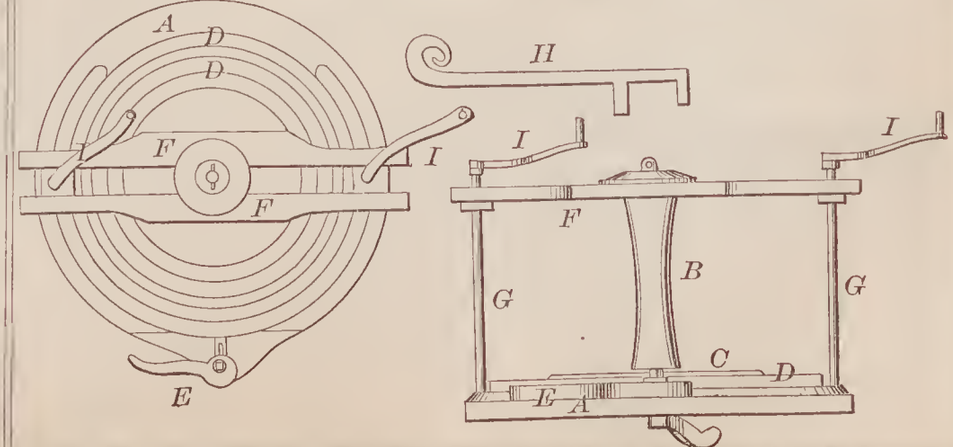


76895—Crockett & Mills—*Cam for Card Stripping Machines.*

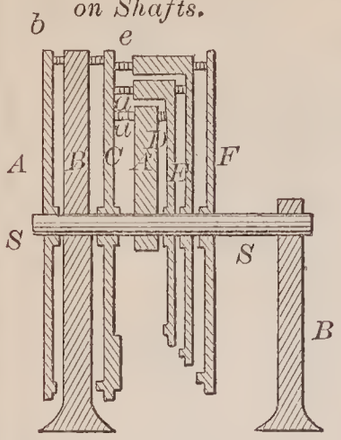
76900—L. B. Fisk—*Carriage Wheel Wrench.*



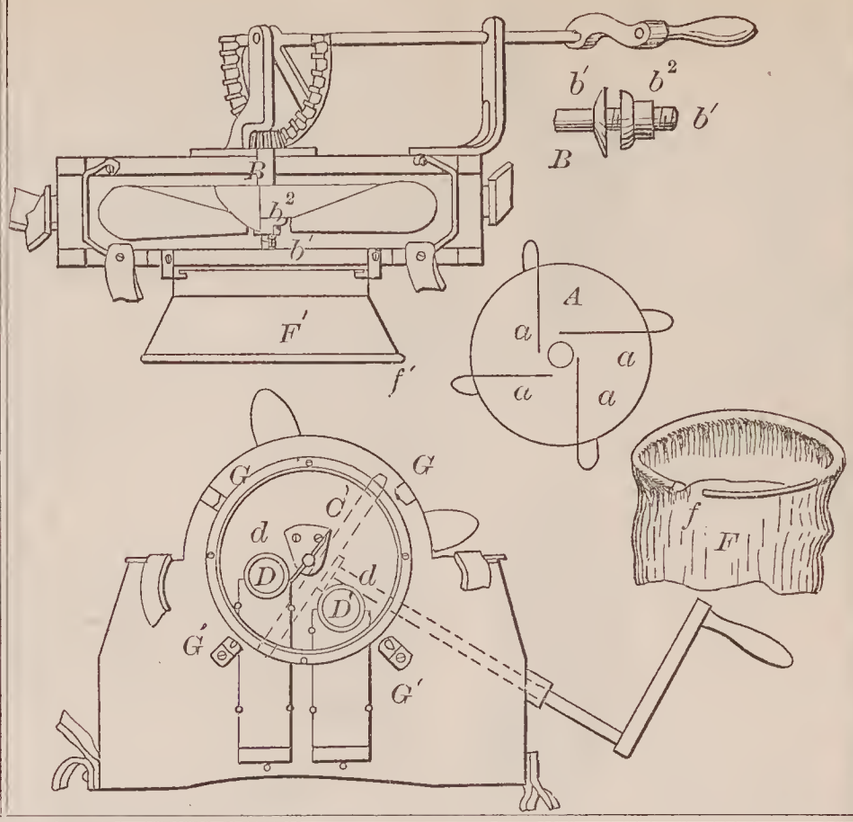
76899—G. Feightner—*For Forming Fifth Wheel.*



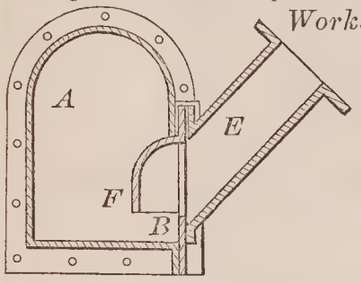
76902—L. S. Fithian—*For Multiplying Motion on Shafts.*



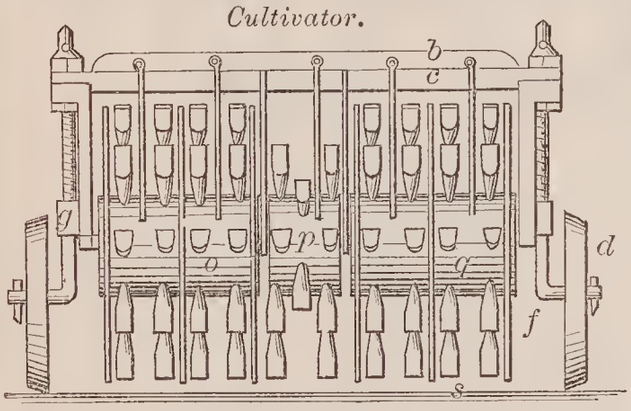
76903—F. G. & E. A. Floyd—*Broadcast Seed Sower.*



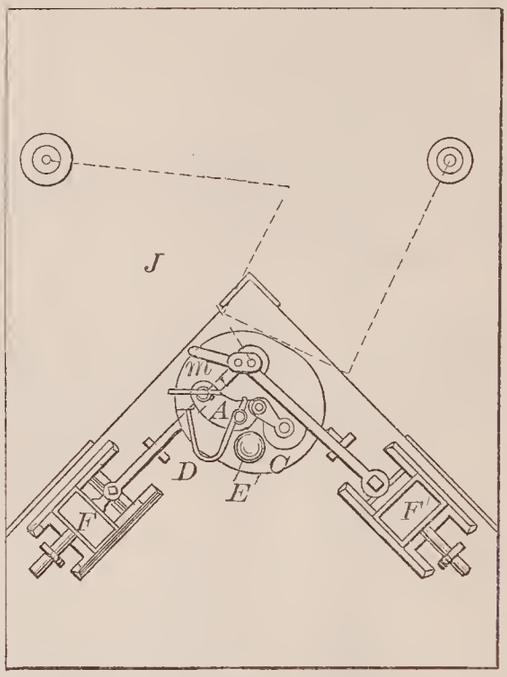
76904—Floyd & Sabbaton—*Hydraulic Main for Gas Works.*



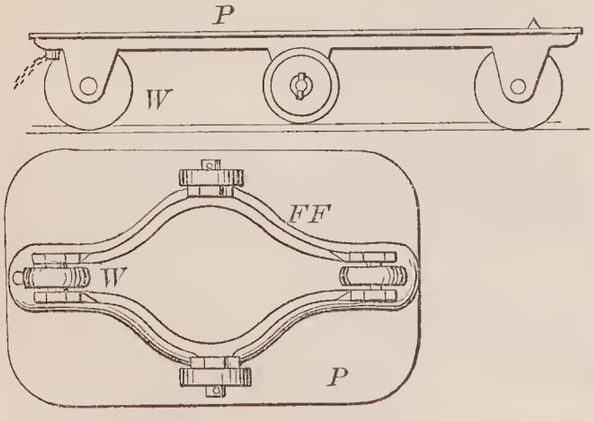
76909—M. Gordon—*Corn Stalk Cutter and Cultivator.*



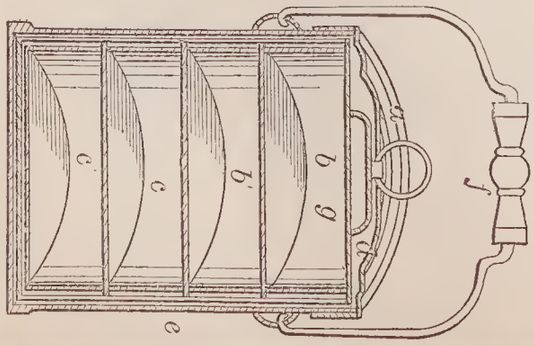
76908—W. W. Goodwin—*Dry Gas Meter.*



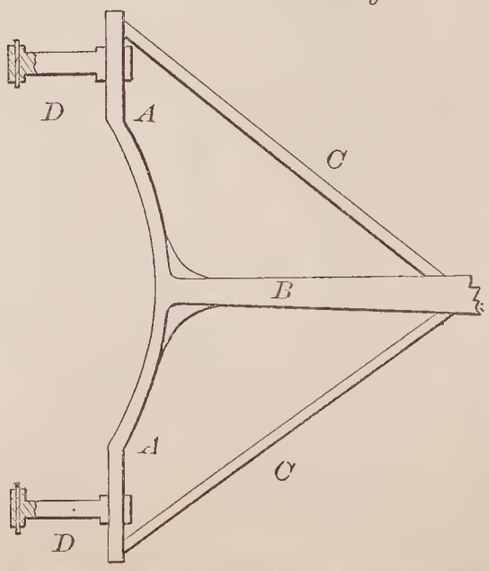
76907—J. Garsed—*Hand Truck.*



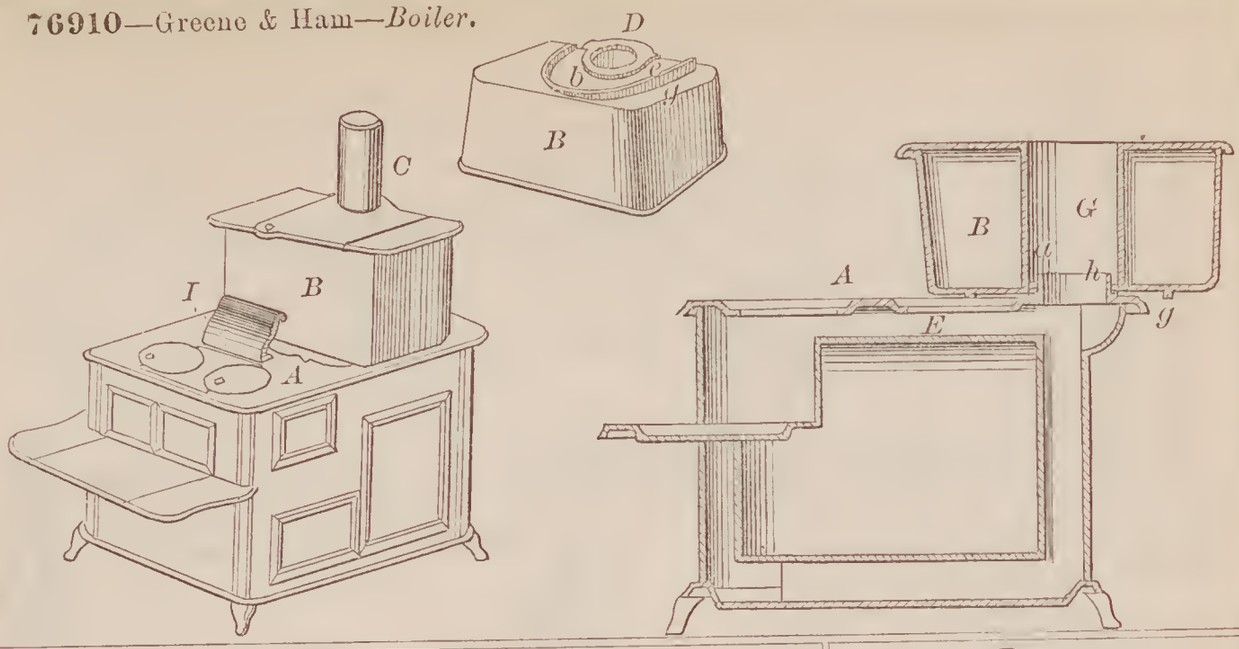
76905—J. H. Foote—*Dinner Pail.*



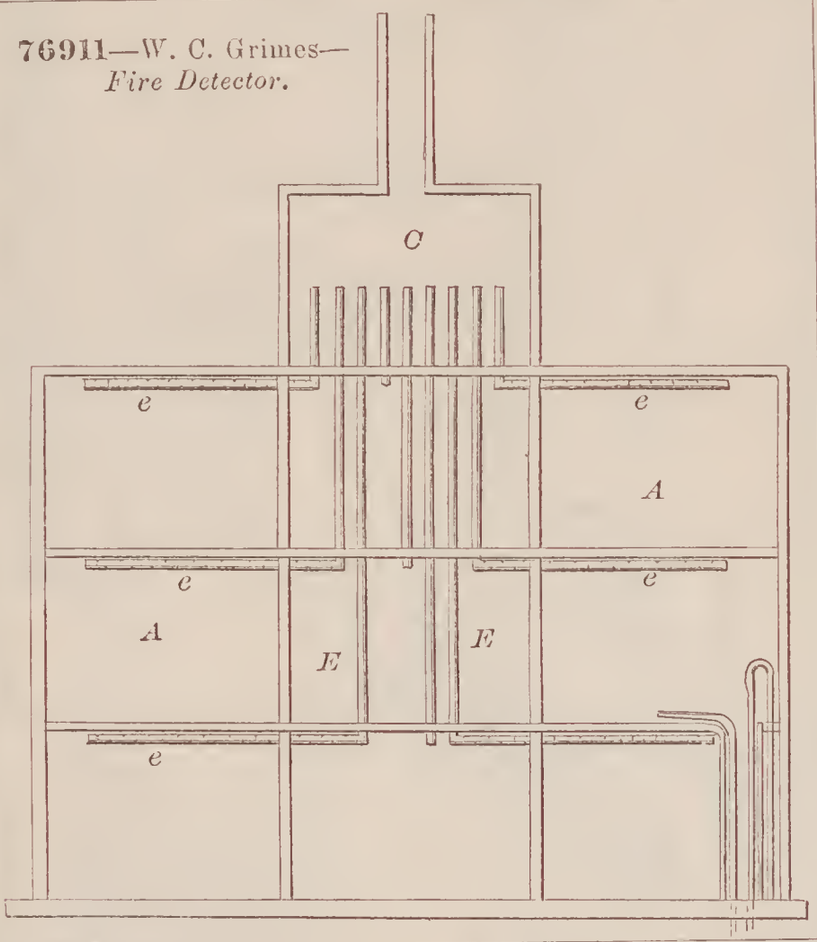
76906—F. Fowler—*Carriage Pole.*



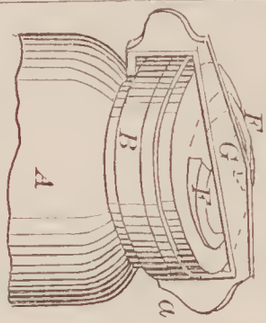
76910—Greene & Ham—*Boiler.*



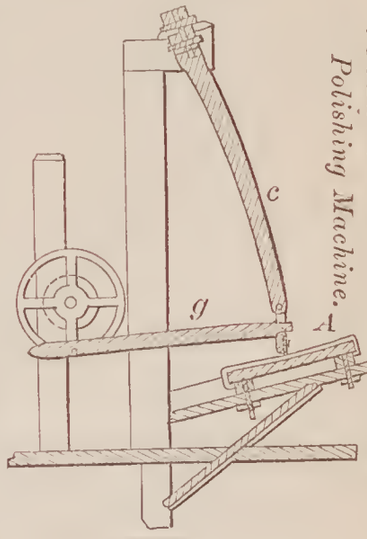
76911—W. C. Grimes—*Fire Detector.*



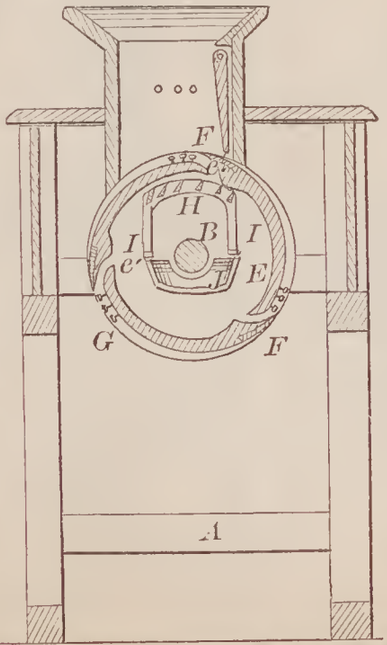
76915—A. J. H. Hilton—*Fruit Jar and Clamp.*



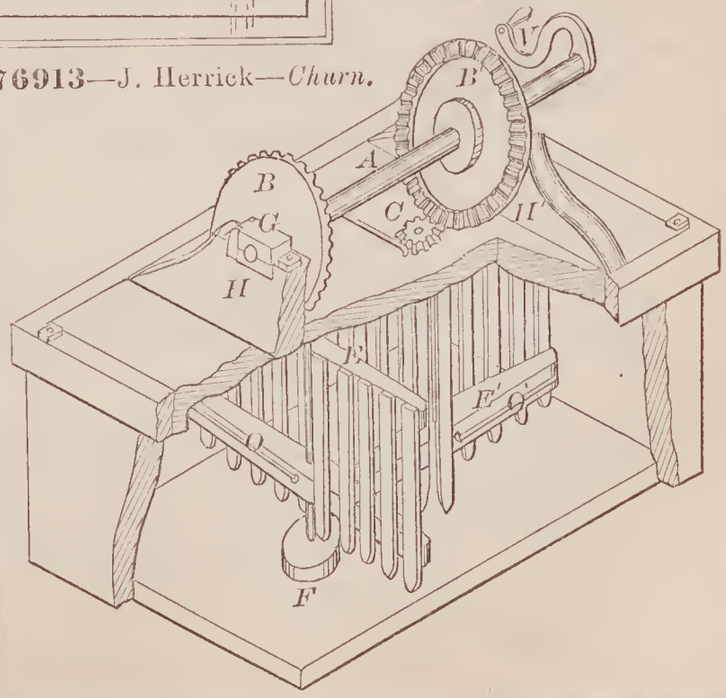
76914—J. W. Hildreth—*Leather Polishing Machine.*



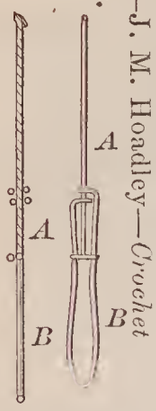
76912—J. & W. L. Heberling—*Root Cutter.*



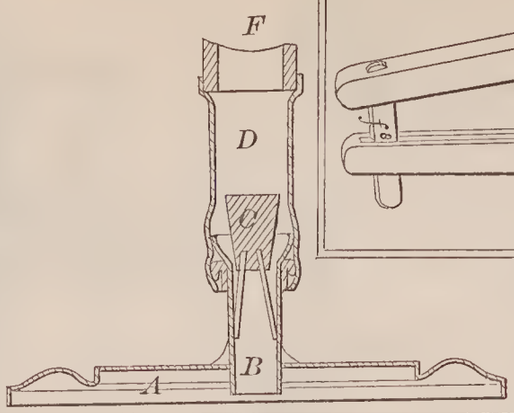
76913—J. Herrick—*Churn.*



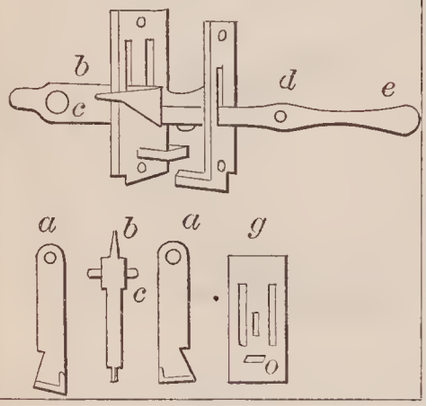
76916—J. M. Hoadley—*Crochet Needle.*



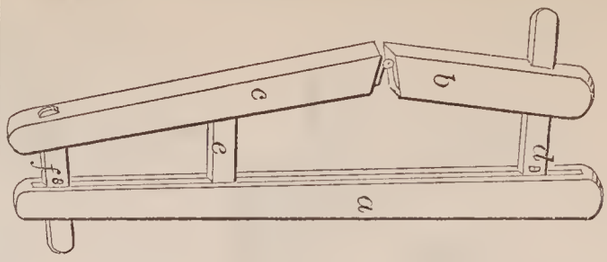
76917—L. E. Holden—*Fruit Can.*



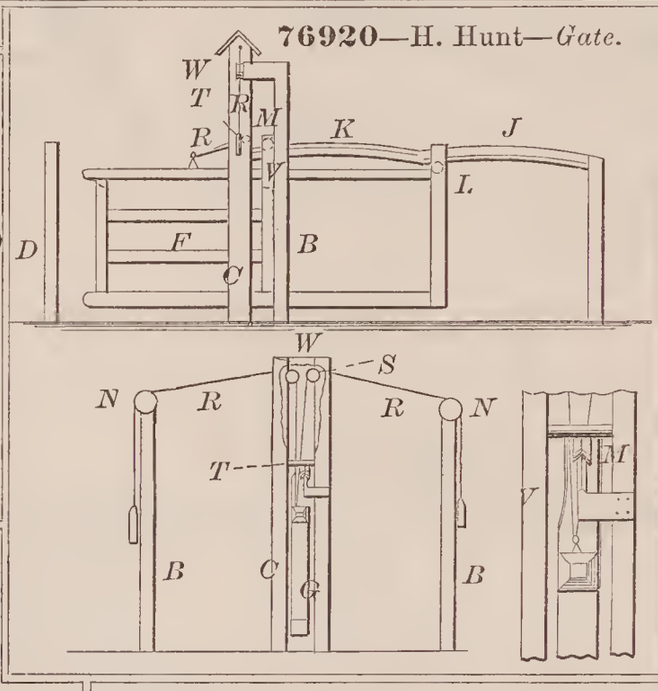
76918—G. B. Howland—*Gate Latch.*



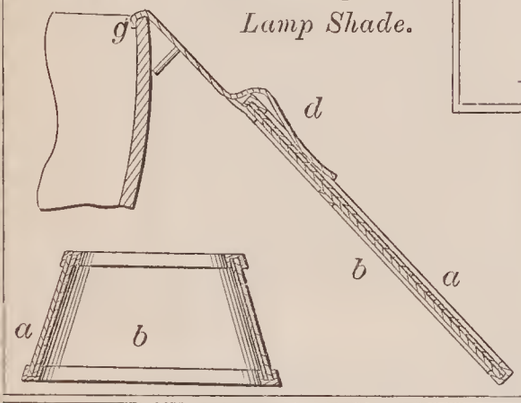
76919—J. H. Hulse—*Frame for Stretching Pants.*



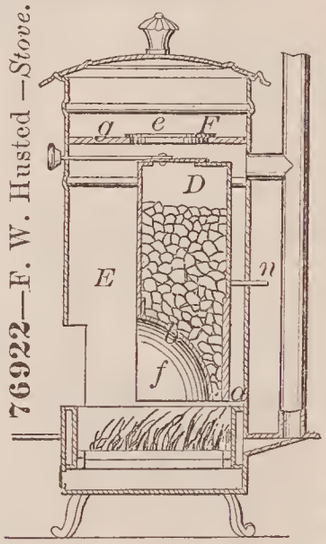
76920—H. Hunt—*Gate.*



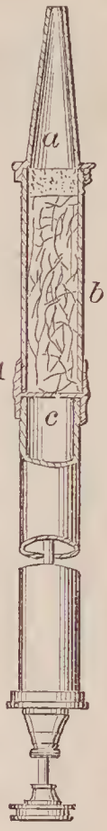
76921—S. W. Huntington—*Lamp Shade.*



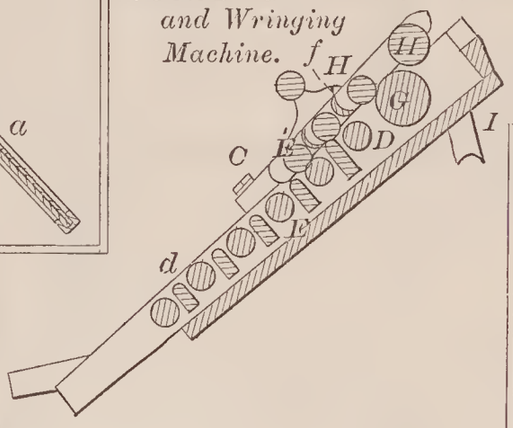
76922—F. W. Husted—*Stove.*



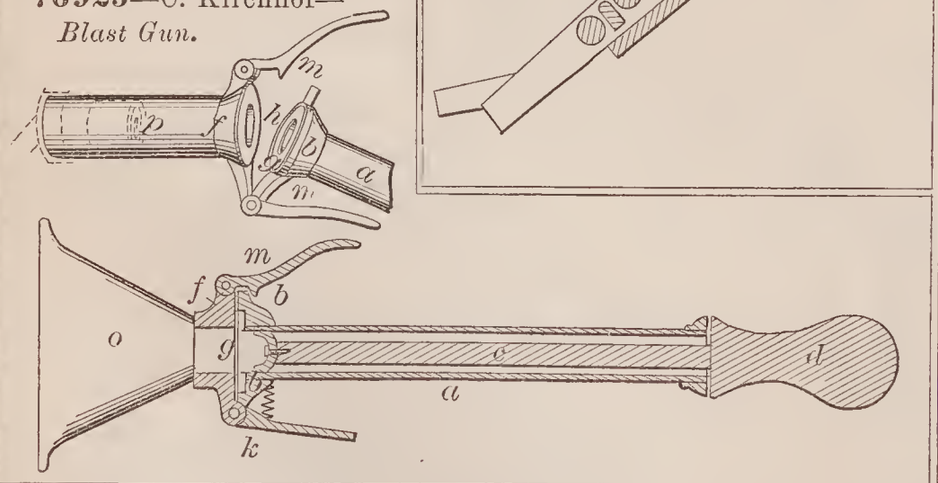
76923—R. Kerr—*Fumigator.*



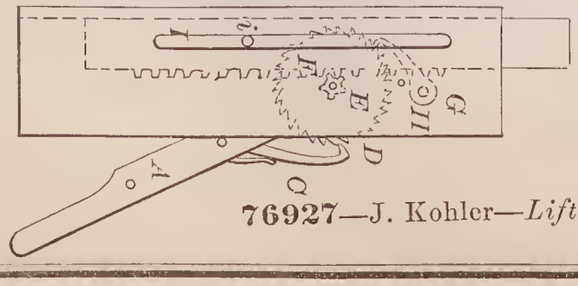
76924—G. W. Kintz—*Washing and Wringing Machine.*

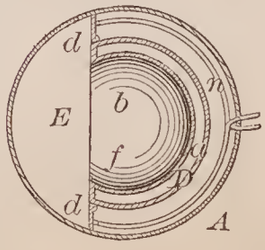


76925—C. Kirchhof—*Blast Gun.*

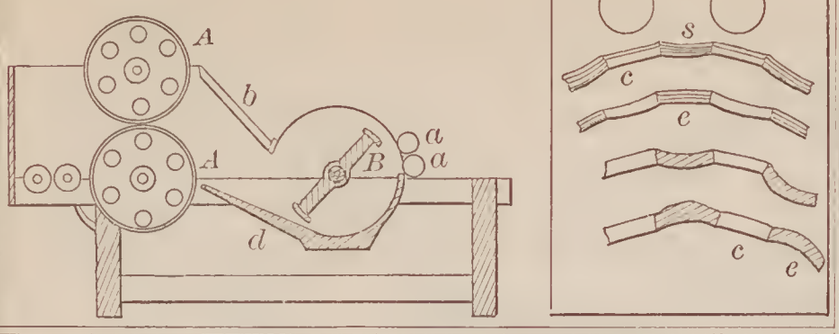


76927—J. Kohler—*Lifting Jack.*

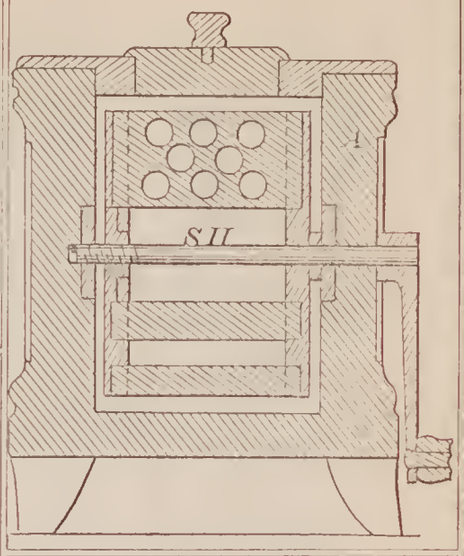




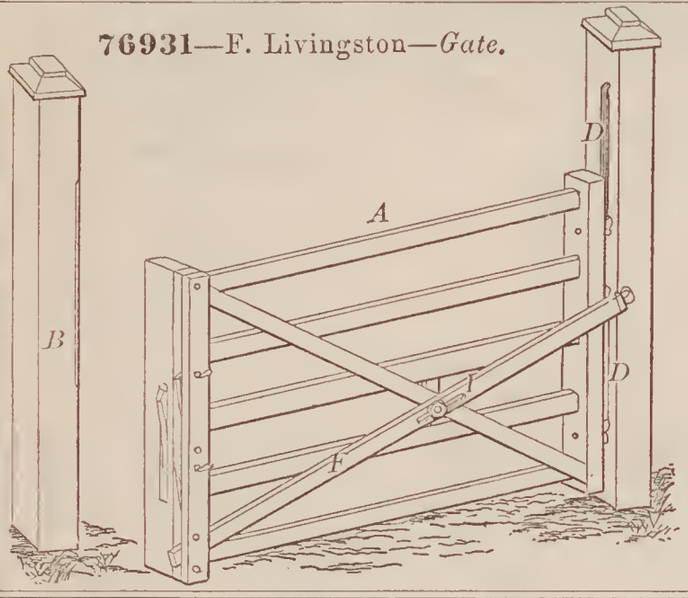
76926—R. Kitson—*Screen Cylinder for Cotton Pickers.*



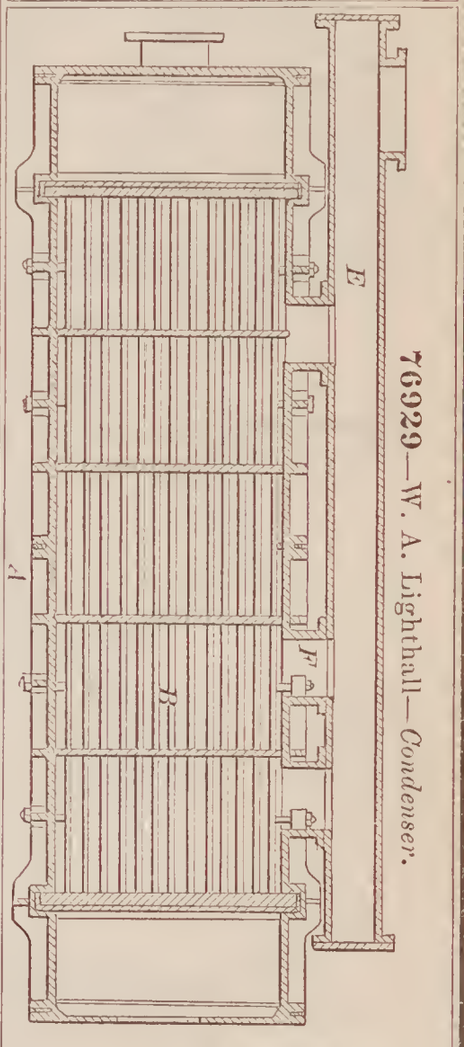
76928—J. Liebhaber—*Churn.*



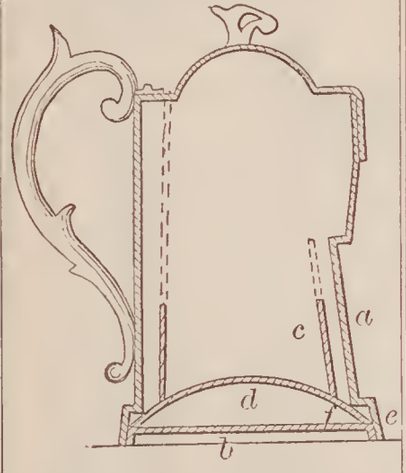
76931—F. Livingston—*Gate.*



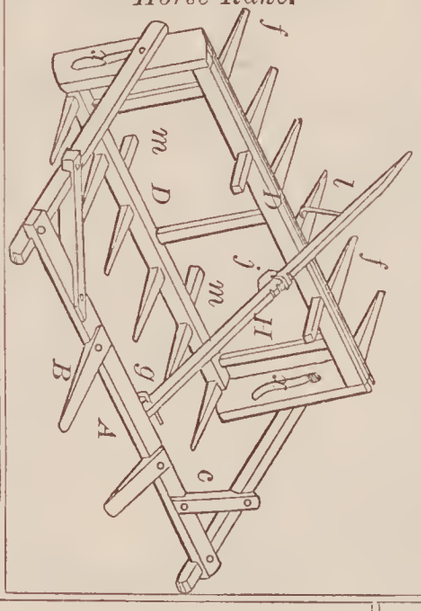
76929—W. A. Lighthall—*Condenser.*



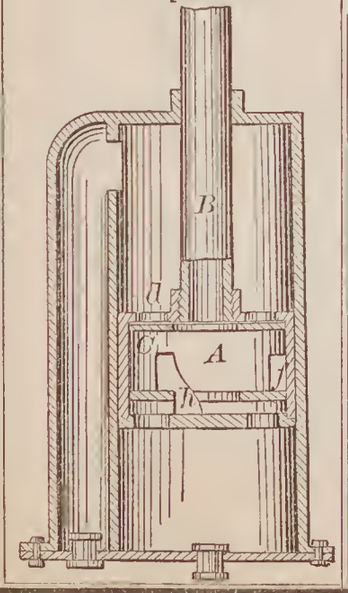
76934—F. J. Miller—*Ice Pitcher.*



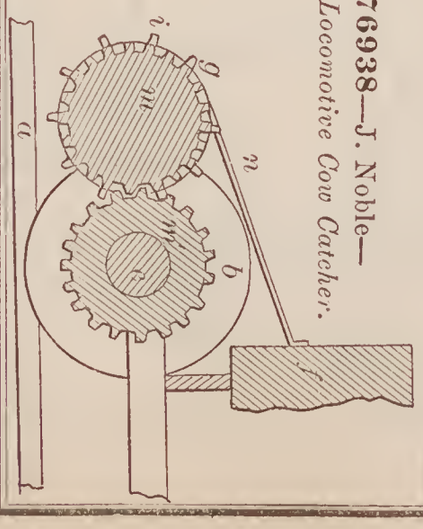
76932—S. P. Mccay—*Horse Rake.*

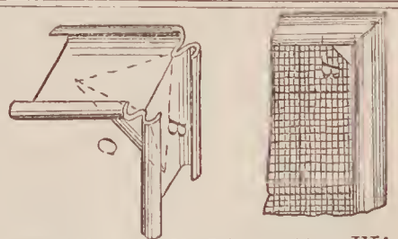


76933—F. P. Michel—*Pump Piston.*



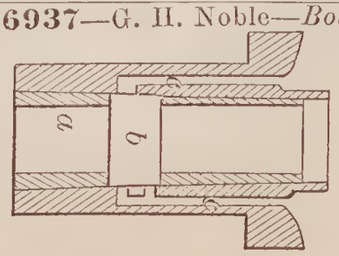
76938—J. Noble—*Locomotive Cow Catcher.*



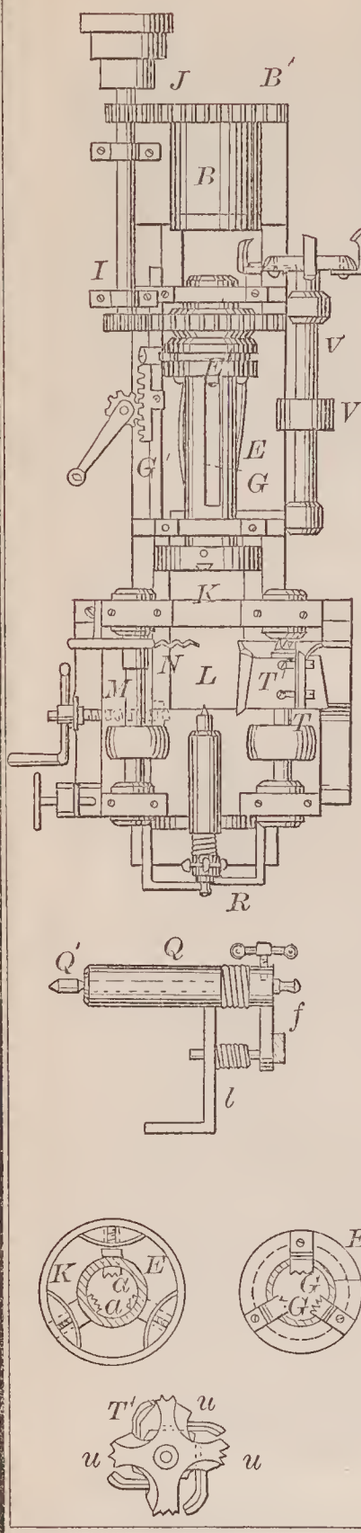


76930—C. F. Linscott—*Window Screen Frame.*

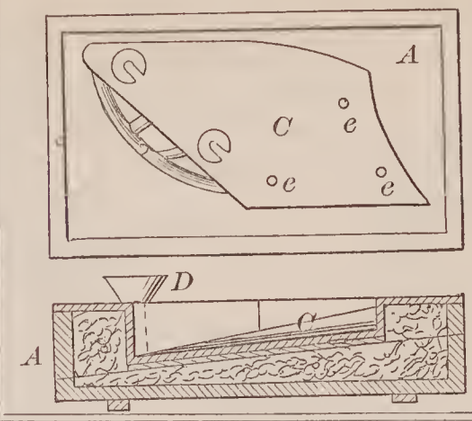
76937—G. H. Noble—*Bolster.*



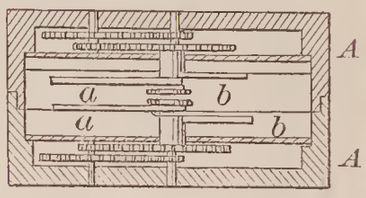
76936—J. H. Murrill—*For Cutting Bungs.*



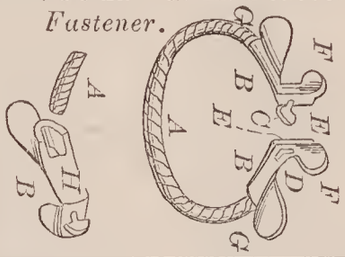
76939—J. Oliver—*Casting Mould Board.*



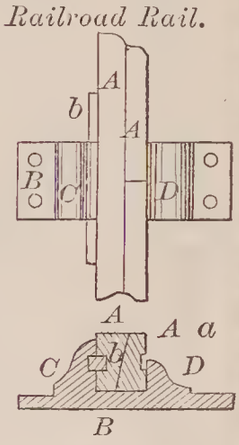
76940—W. B. O. Peabody—*Scoring Games.*



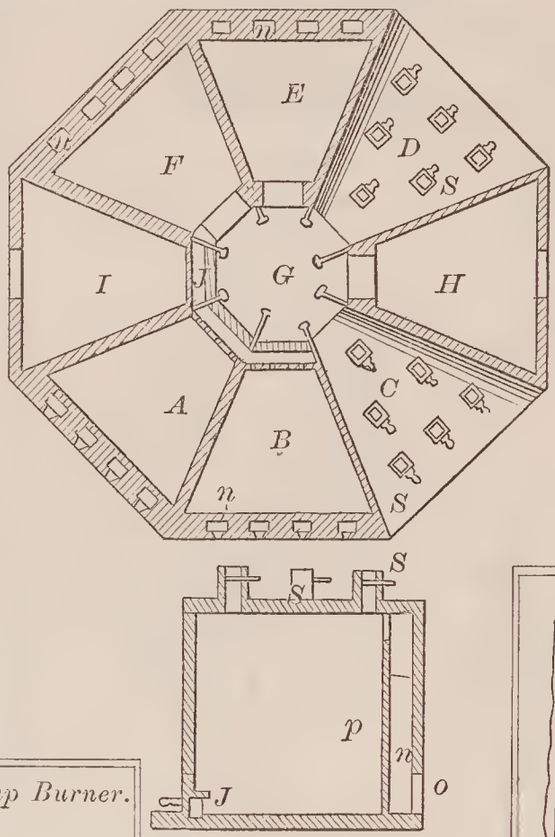
76941—G. H. Peacock—*Bag Fastener.*



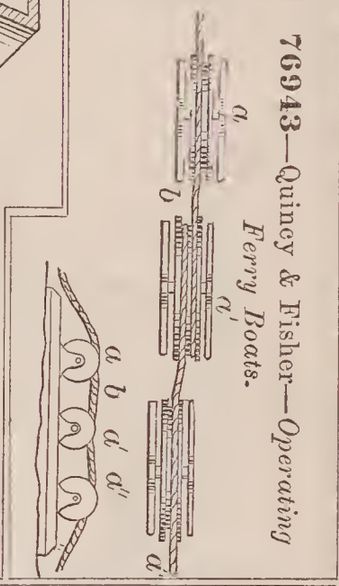
76942—L. B. Prindle—*Railroad Rail.*

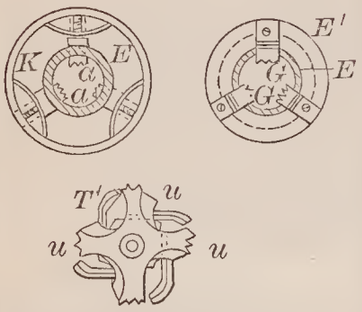


76946—R. Robson—*Brick Kiln.*

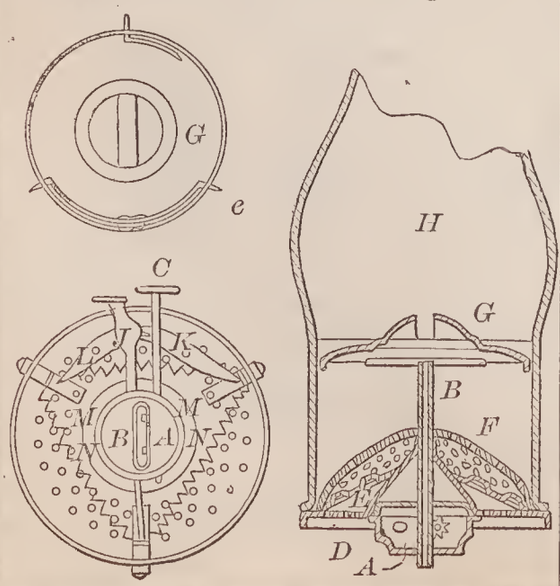


76943—Quincy & Fisher—*Operating Ferry Boats.*

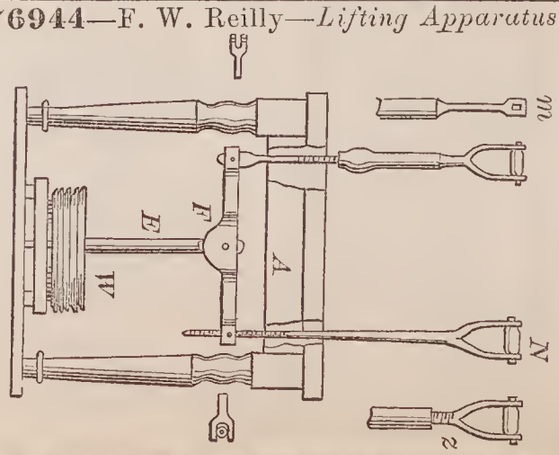




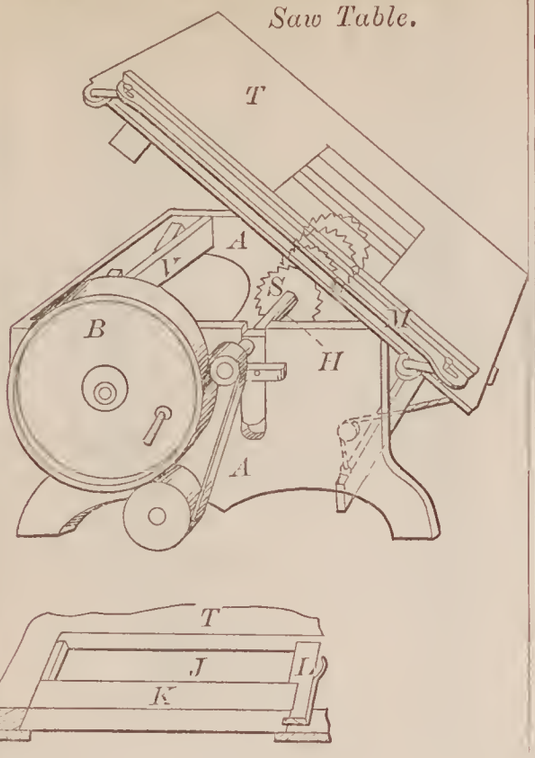
76945—F. S. Robinson—*Lamp Burner.*



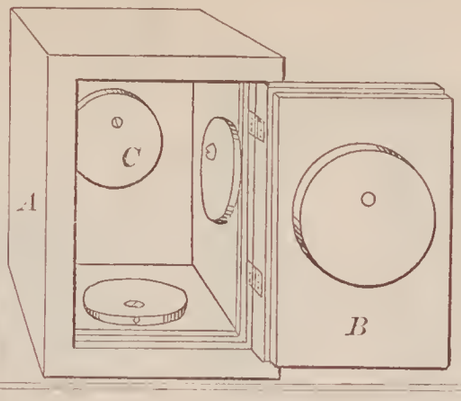
76944—F. W. Reilly—*Lifting Apparatus.*



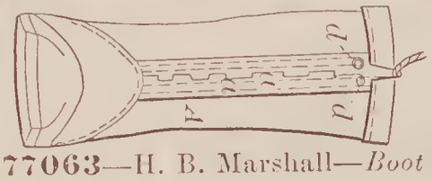
76947—G. H. Sanborn—*Circular Saw Table.*



76948—R. S. Sanborn—*Safe.*

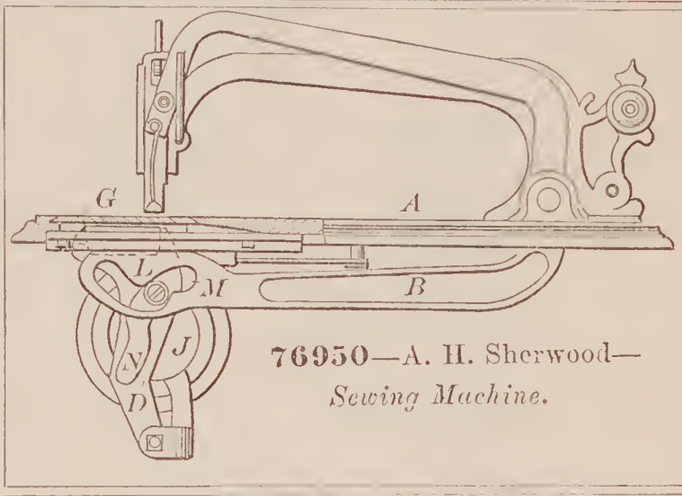


77063—H. B. Marshall—*Boot & Shoe.*

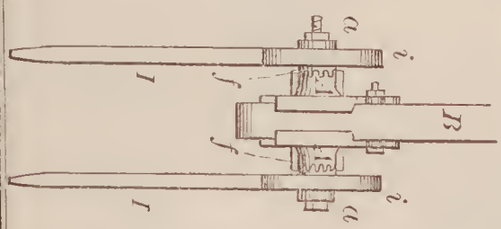


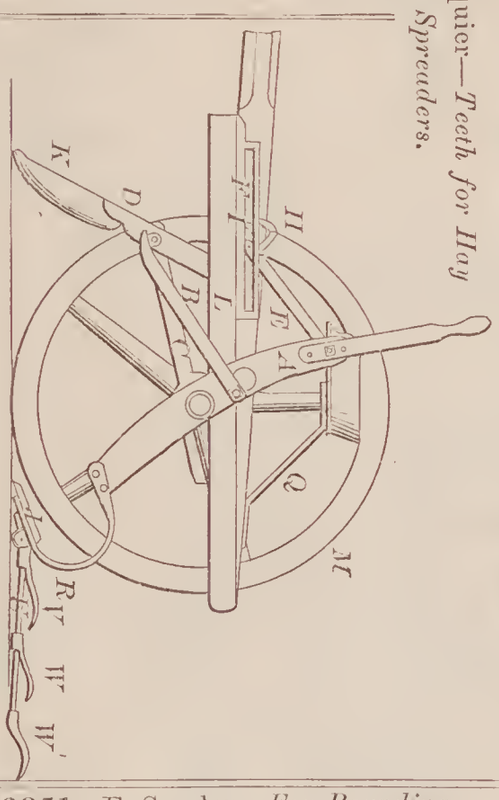
76949—D. B. Sanderson—*Peg Cutter.*

76950—A. H. Sherwood—*Sewing Machine.*

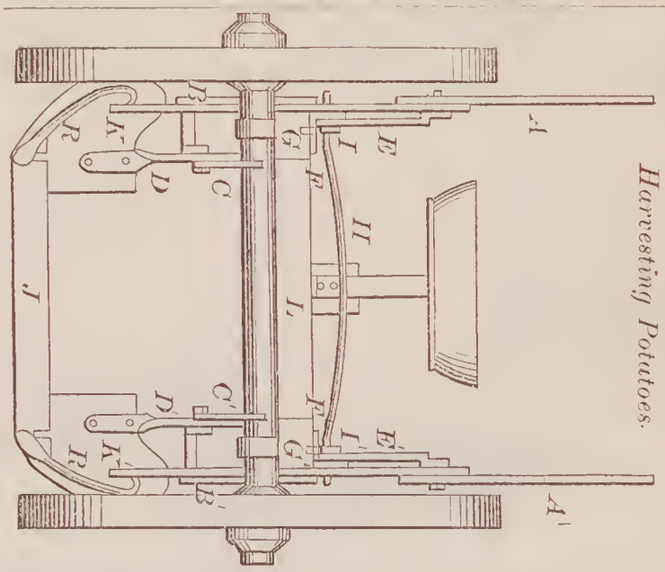


76952—G. A. Squier—*Teeth for Hay Spreaders.*

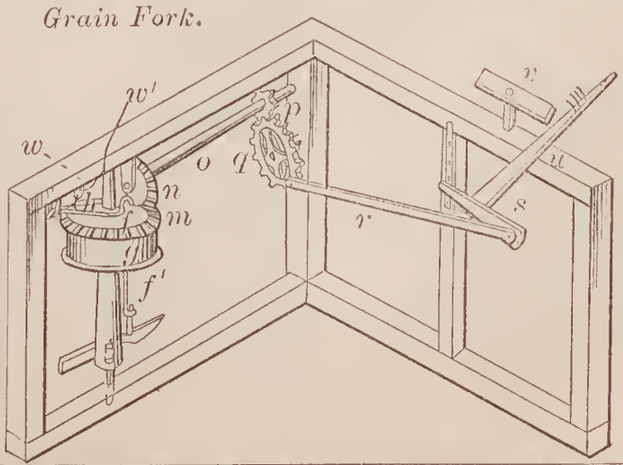




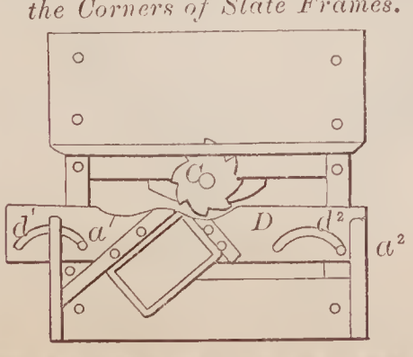
76953—O. S. & T. C. St. John—*For Harvesting Potatoes.*



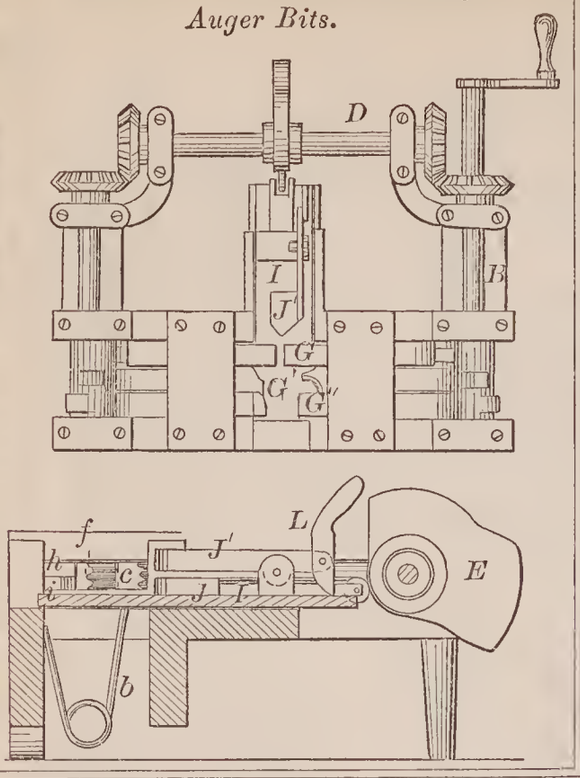
76954—H. Strickler—*Hay Hoisting Drum and Grain Fork.*



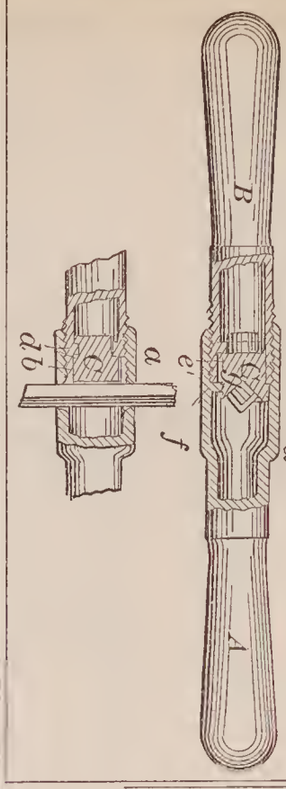
76951—E. Snyder—*For Rounding the Corners of Slate Frames.*



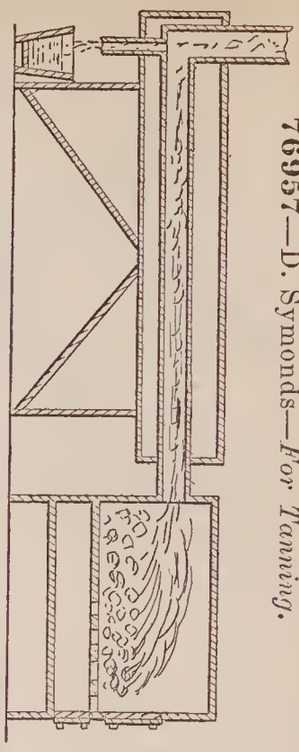
76955—J. Swan—*For Making Auger Bits.*



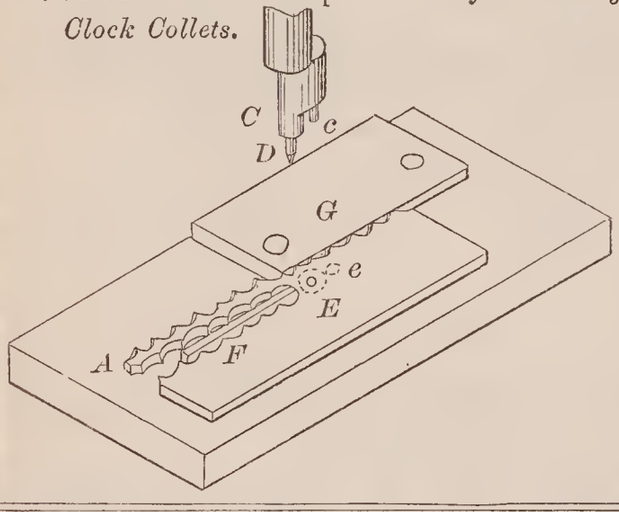
76956—J. Swan—*Auger Handle.*



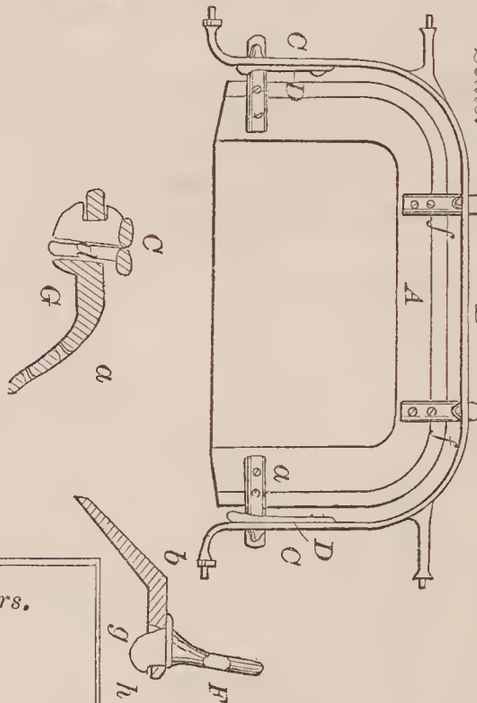
76957—D. Symonds—*For Tanning.*



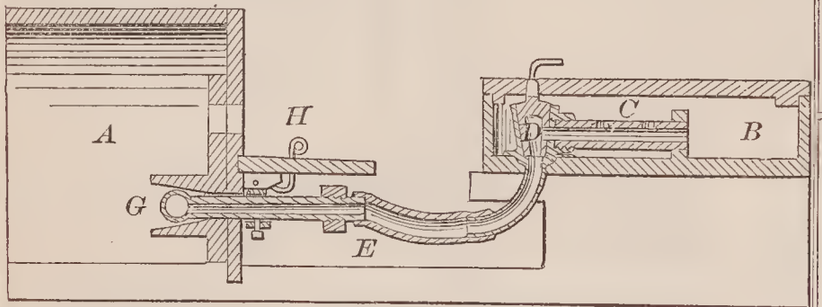
76958—H. O. Thompson—*Die for Making Clock Collets.*



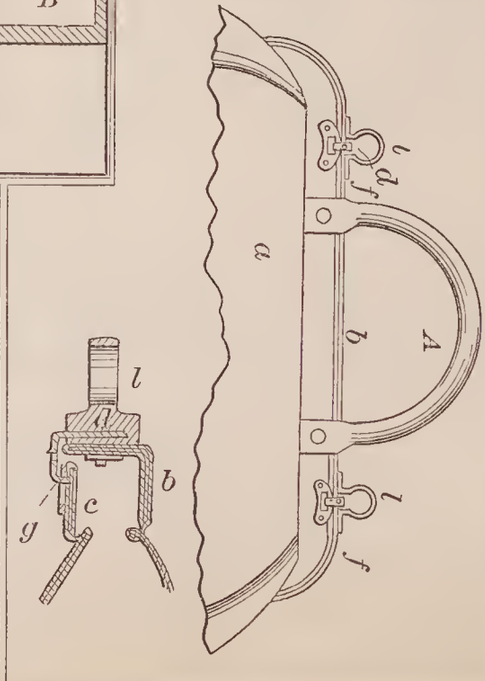
76959—S. Toomey—*Shifting Rail for Carriage Seats.*



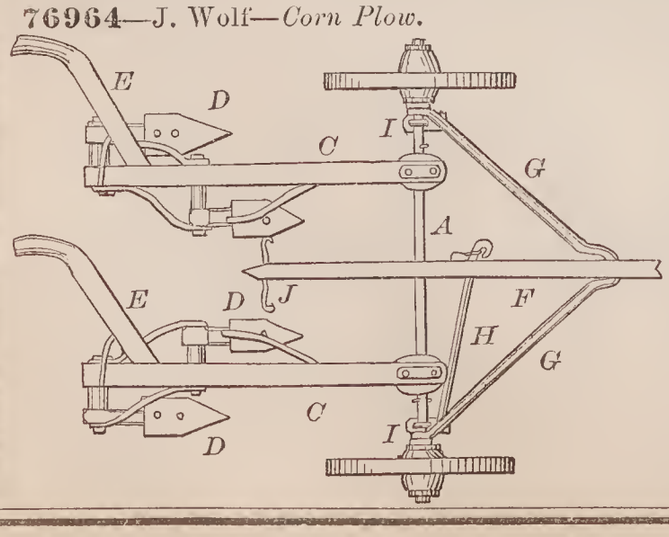
76961—C. Webster—*Feed Water Heater for Boilers.*



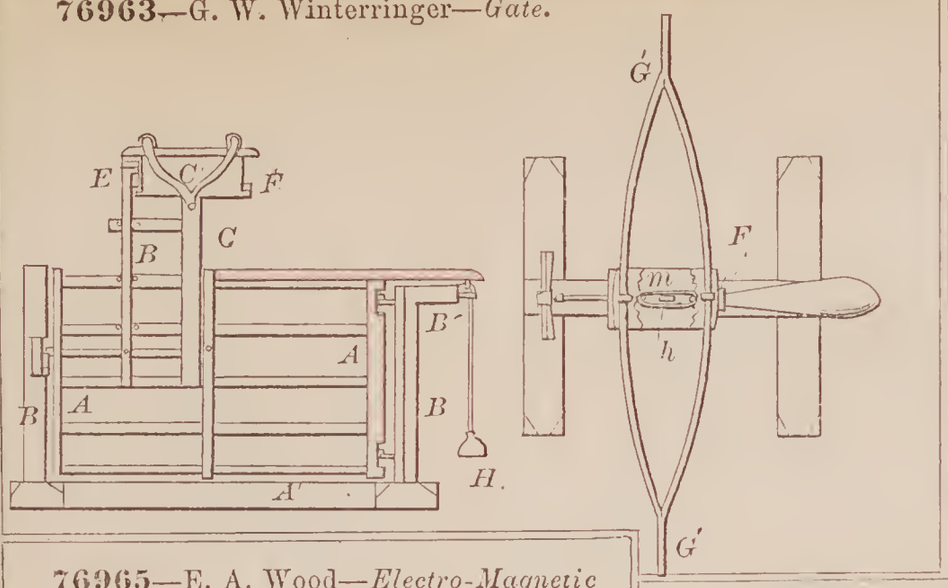
76962—C. A. Wellington—*Traveling Bag.*



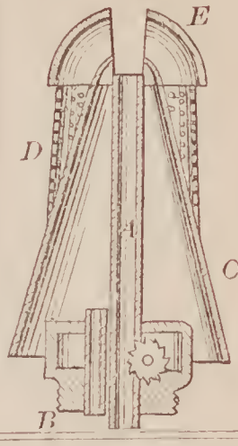
76964—J. Wolf—*Corn Plow.*



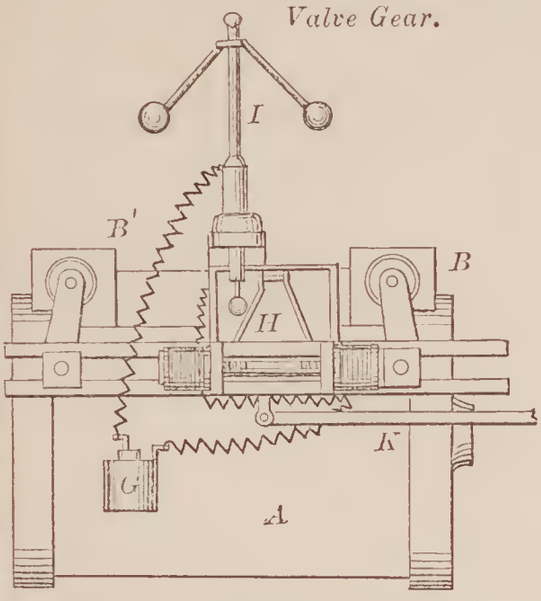
76963—G. W. Winterringer—*Gate.*



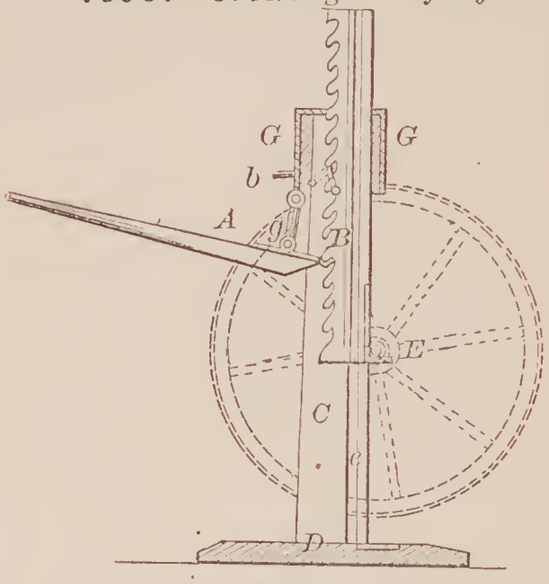
76966—Ackerman, Campbell & Golden—*Lamp Burner.*



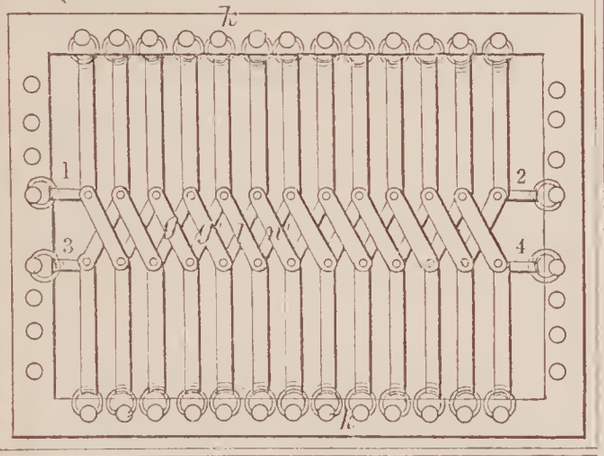
76965—E. A. Wood—*Electro-Magnetic Valve Gear.*



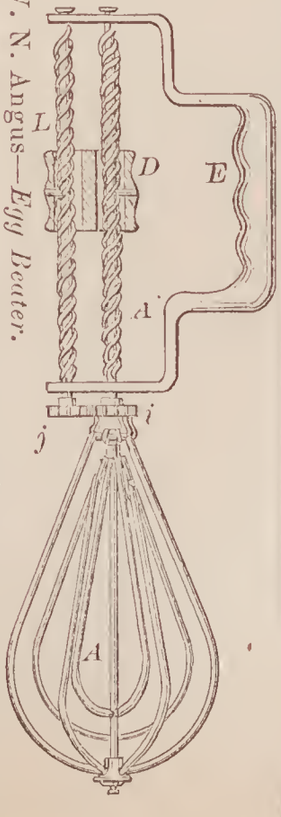
76967—G. H. Alger—*Lifting Jack.*



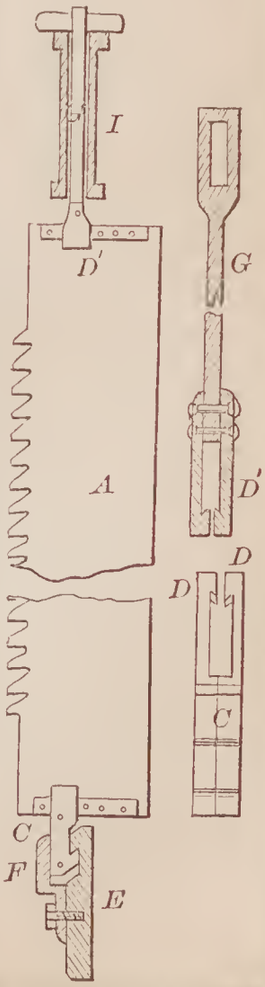
76968—J. Allen—*Bed Bottom.*



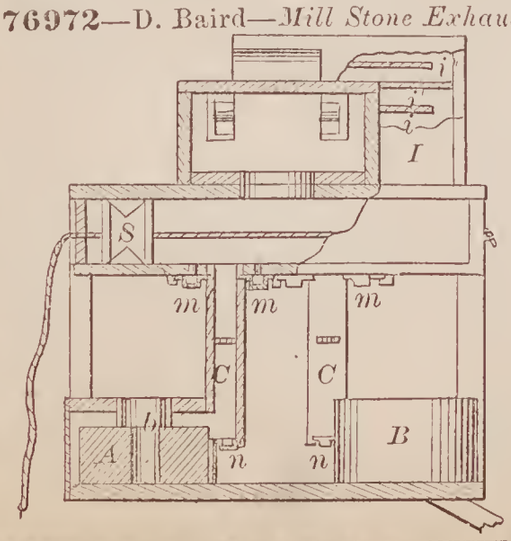
76970—W. N. Angus—*Egg Beater.*



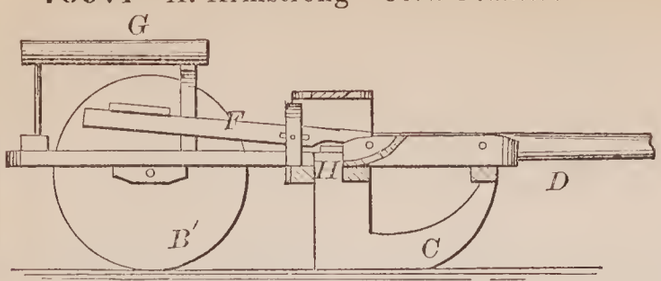
76969—E. Andrews—*For Hanging Reciprocating Saws.*



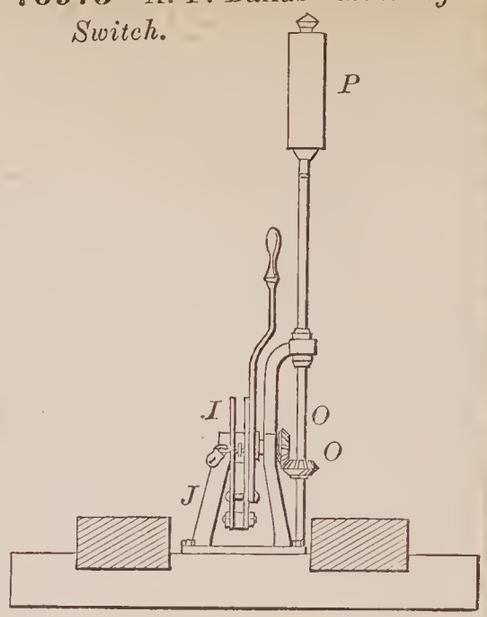
76972—D. Baird—*Mill Stone Exhaust*

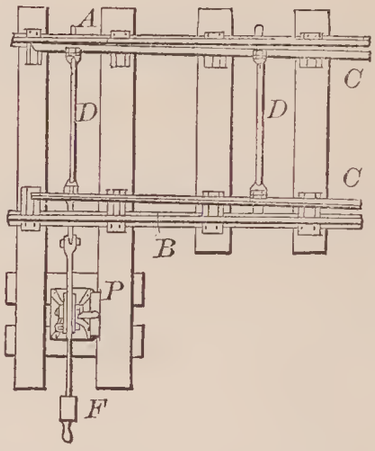


76971—A. Armstrong—*Corn Planter.*

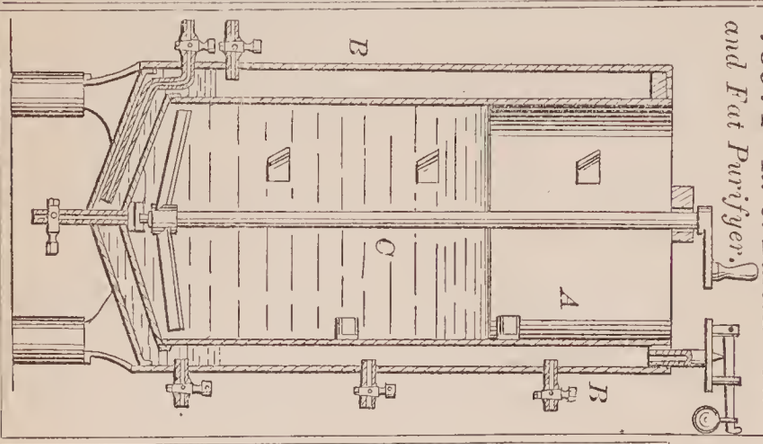


76973—A. F. Ballas—*Railway Switch.*

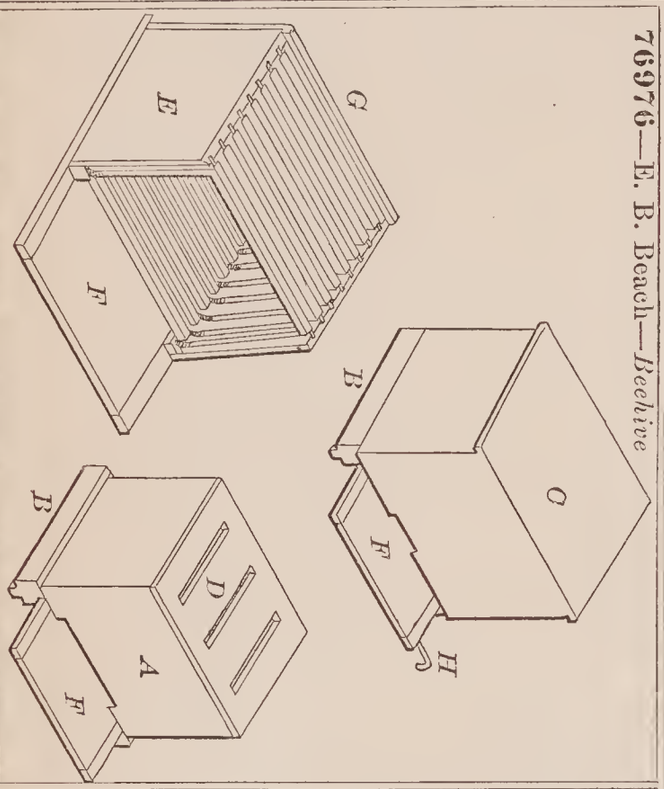




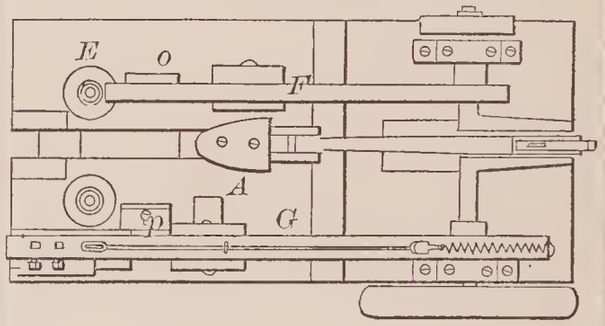
76974—R. C. Barton—*Oil and Fat Purifyer.*

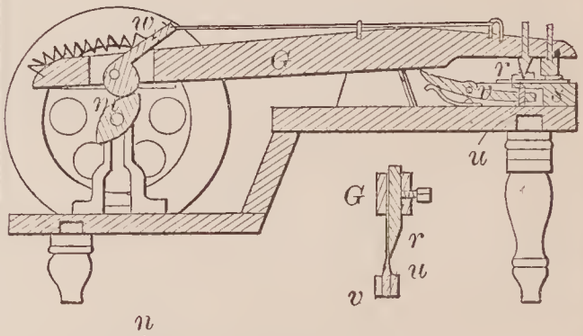


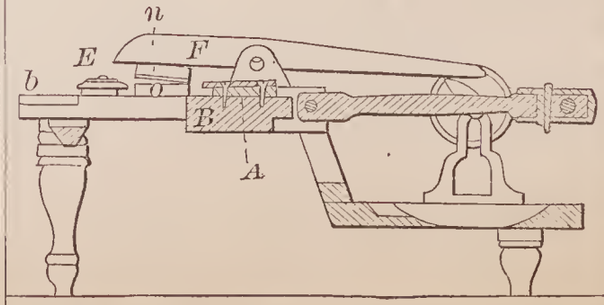
76976—E. B. Beach—*Beehive*



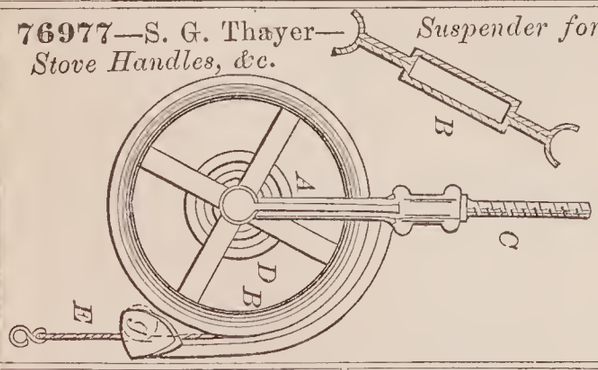
76975—Batchelder & Woods—*Horse Shoe Machine.*



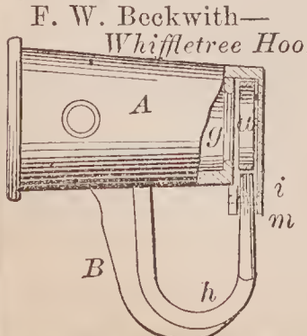




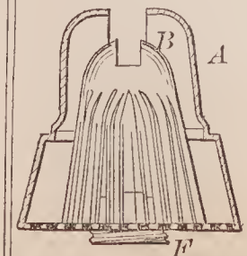
76977—S. G. Thayer—*Suspender for Stove Handles, &c.*



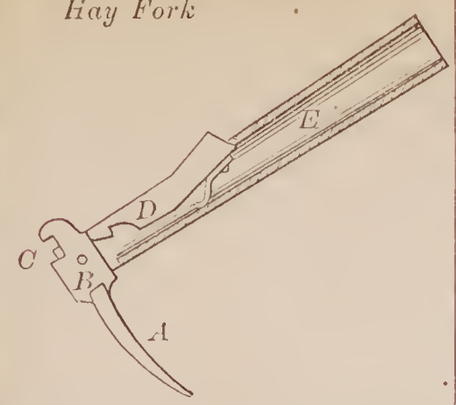
76978—F. W. Beckwith—*Whiffletree Hook.*



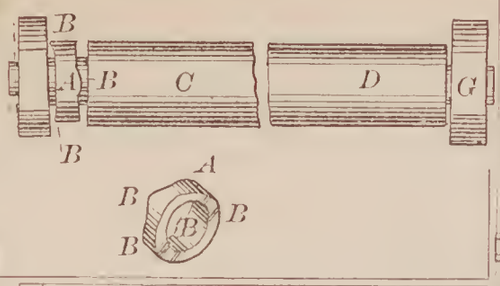
76979—G. A. Beidler—*Lamp Burner.*



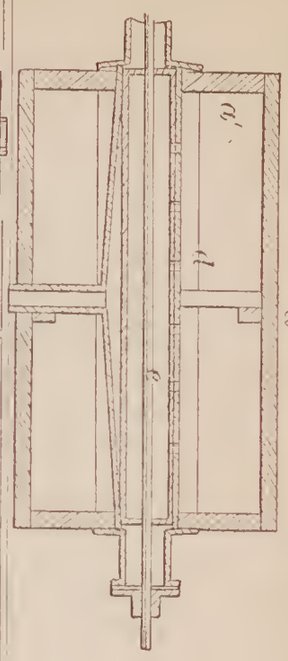
76980—Bemendefer & Finch—*Hay Fork*



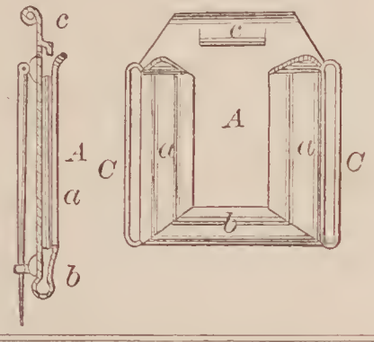
76983—B. Boardman—*For Turning Nuts.*



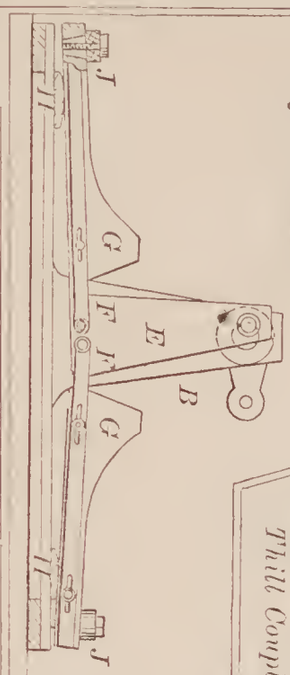
76982—S. W. Bevans—*Feather Dressing Machine.*



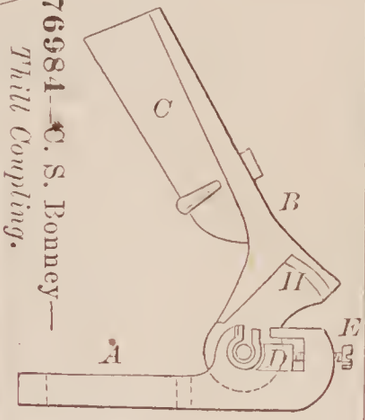
76987—S. M. & H. J. Brown—*Ticket Holder.*



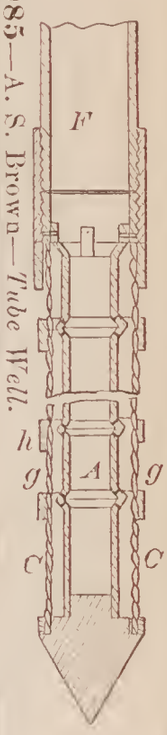
76989—A. Buchanan—*Quartz Crusher.*



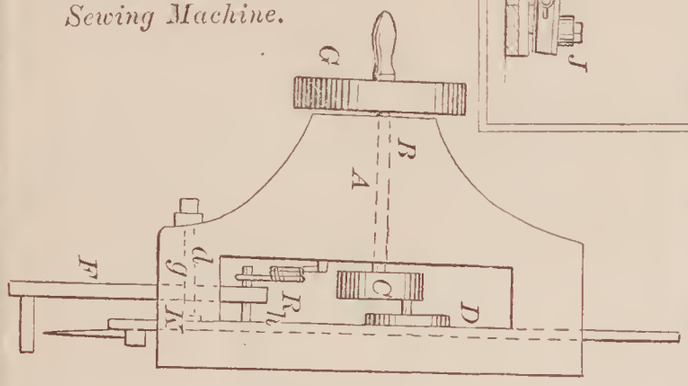
76984—C. S. Bonney—*Thill Coupling.*



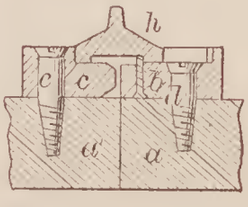
76985—A. S. Brown—*Tube Well.*



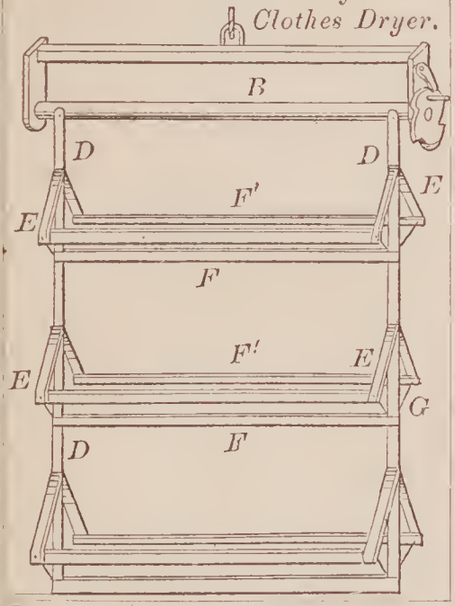
76986—C. E. Brown—*Sewing Machine.*



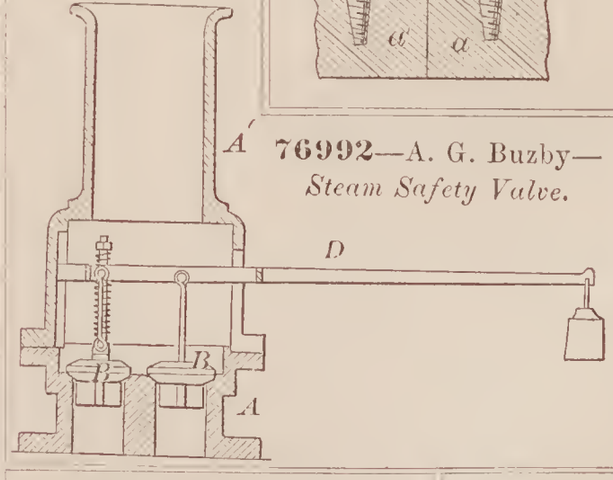
76981—W. H. Betts—*Window Sash Lock.*



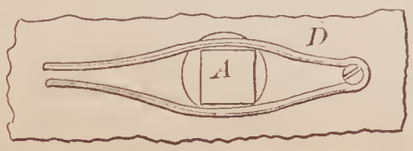
76990—D. M. Buckley—*Clothes Dryer.*



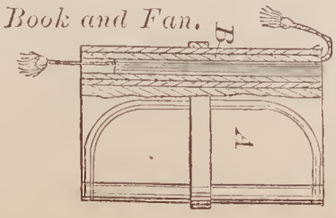
76992—A. G. Buzby—*Steam Safety Valve.*



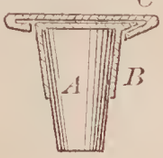
76995—J. Christy—*Nut Fastener.*



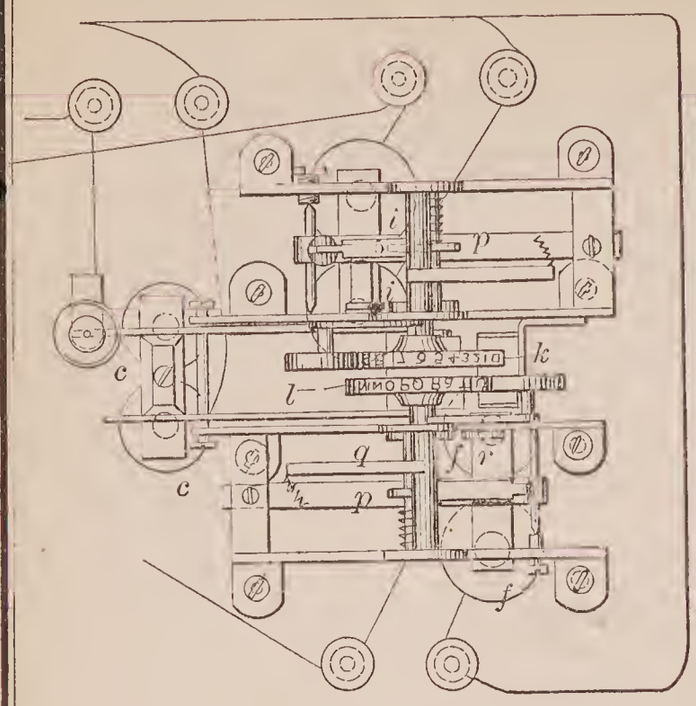
76988—O. Bruck—*Pocket Book and Fan.*

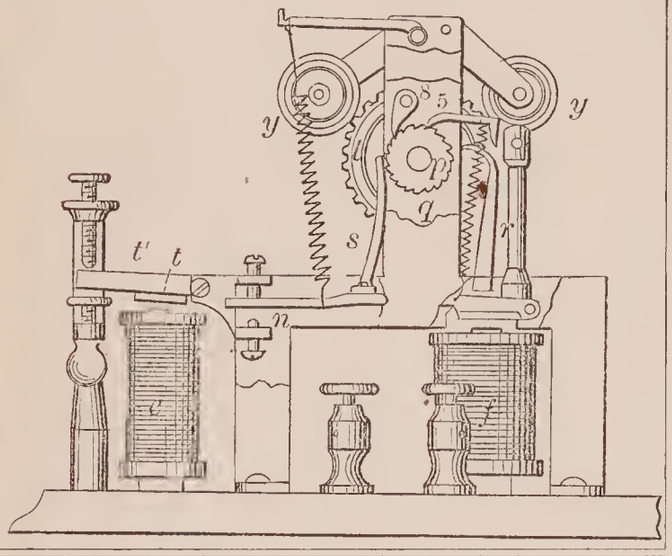


76994—S. & S. C. Cary—*Bottle Stopper.*

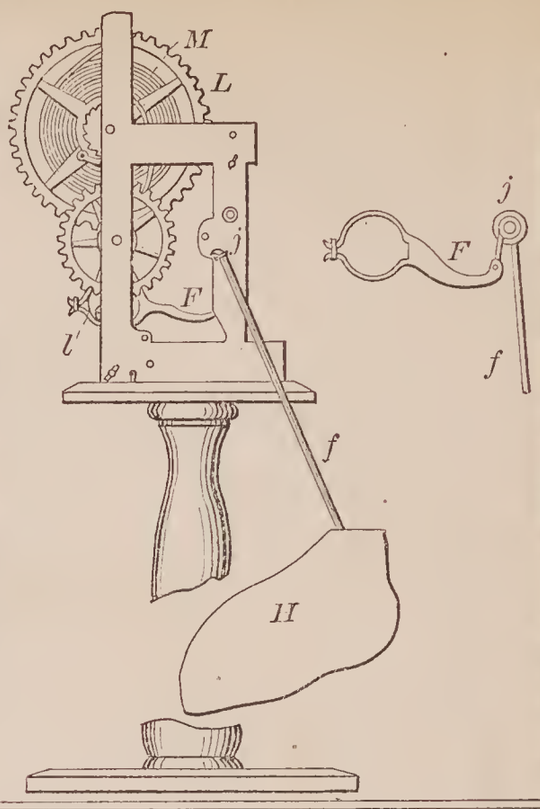


76993—E. A. Calahan—*Printing Telegraph.*

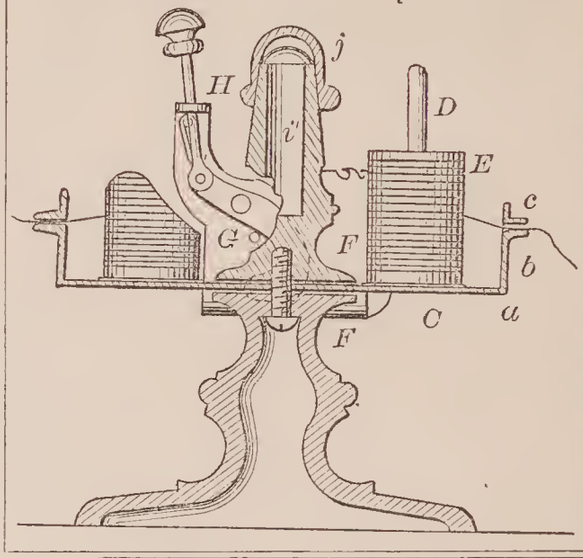




76996—E. J. Clark—*Fly Brush and Fan.*

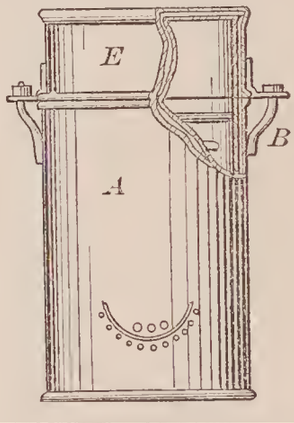


76997—N. P. Clarke—*Spool Stand.*

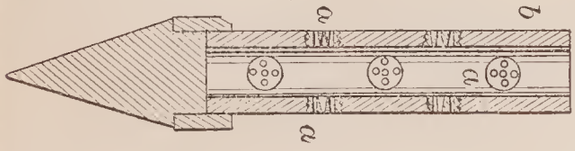


76998—G. Clump—*For Relieving Choked Animals.*

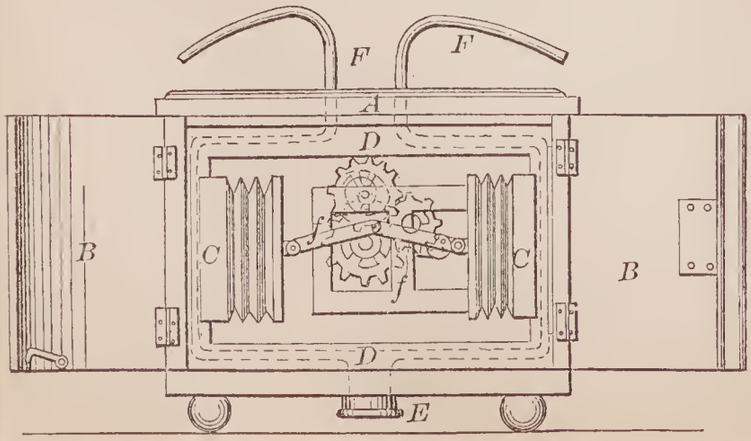
76999—A. E. Cobb—*Beehive.*



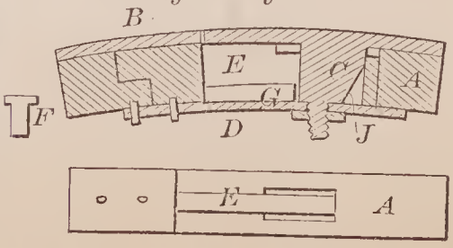
77000—C. H. Colby—*Tube Well.*



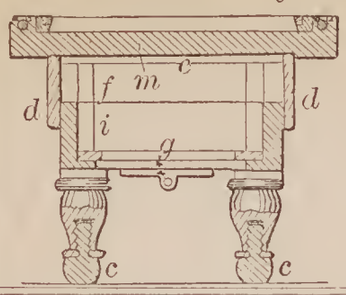
77003—W. O. Crawford—*Ventilator.*



77002—S. W. Corbin—*Tightening Tire.*

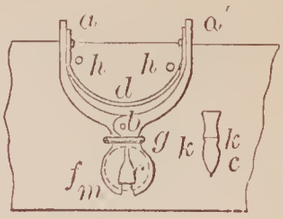


77001—H. W. Collender—*Billiard and Dining Table.*

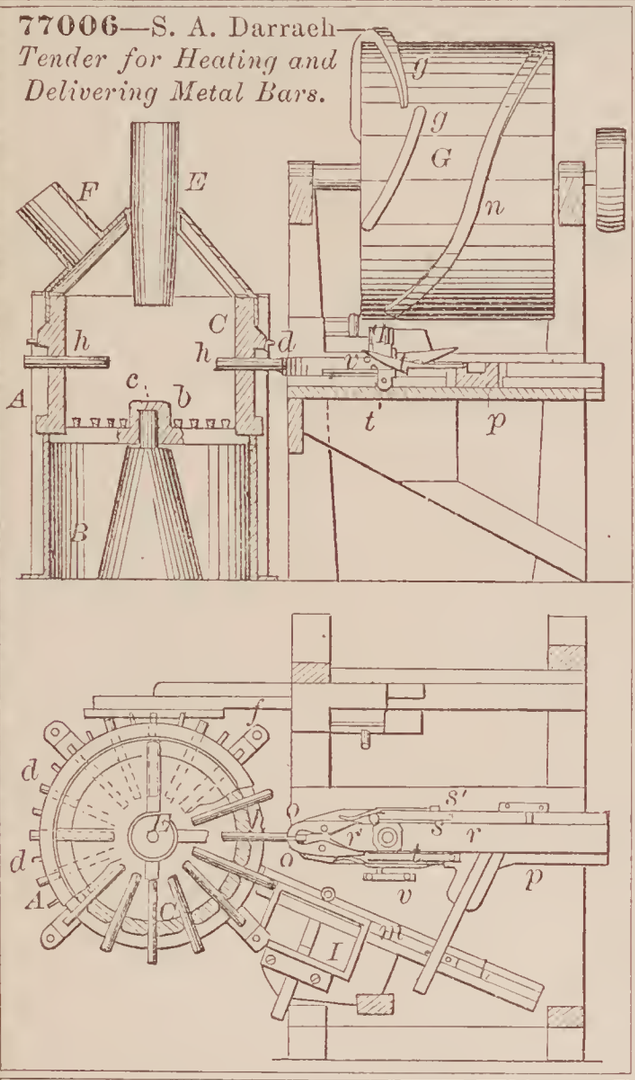


77004—Q. C. Culley—*Cheese Turning Cover.*

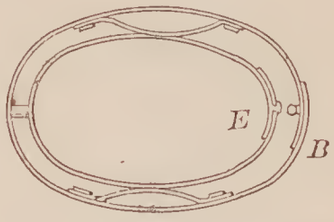
77005—A. Cutter—*Shutter Fastening.*



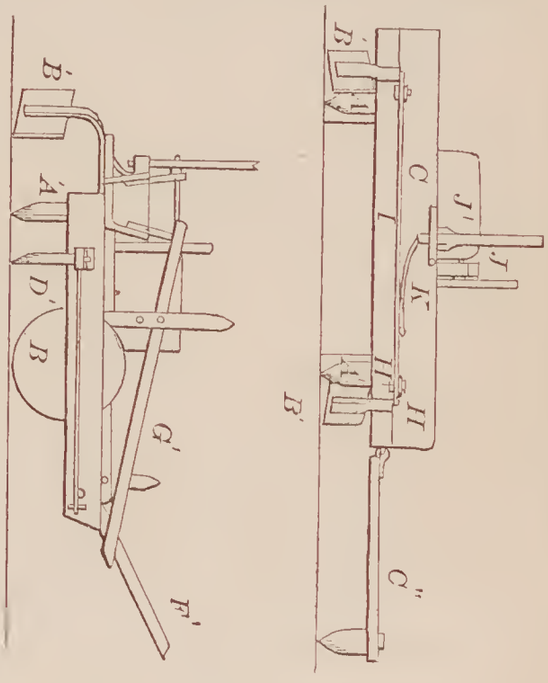
77006—S. A. Darraeh—*Tender for Heating and Delivering Metal Bars.*



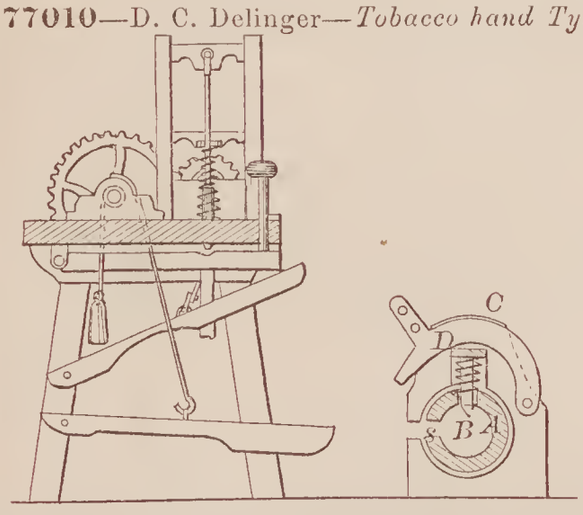
77007—G. Deas—*Hat Ventilator.*

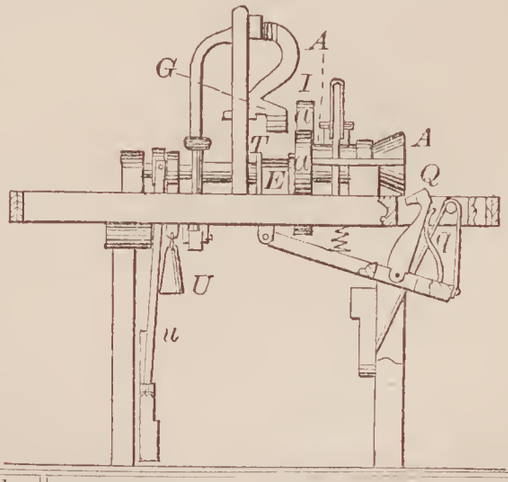


77009—C. Deis—*Seeding Machine.*

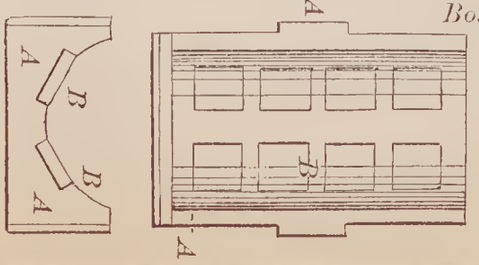


77010—D. C. Delinger—*Tobacco hand Tying Machine.*

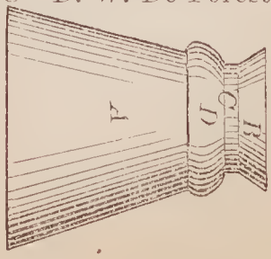




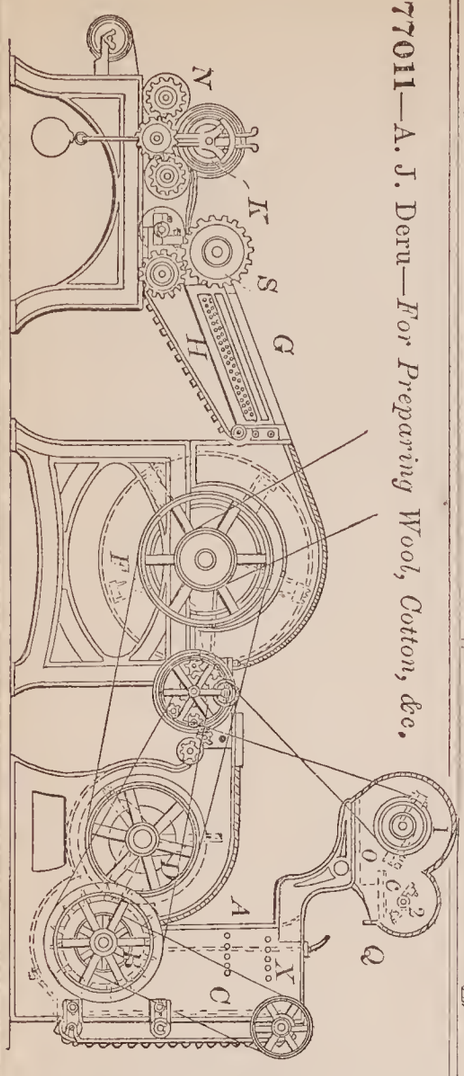
77012—P. S. Devlan—*Material for Journal Boxes.*



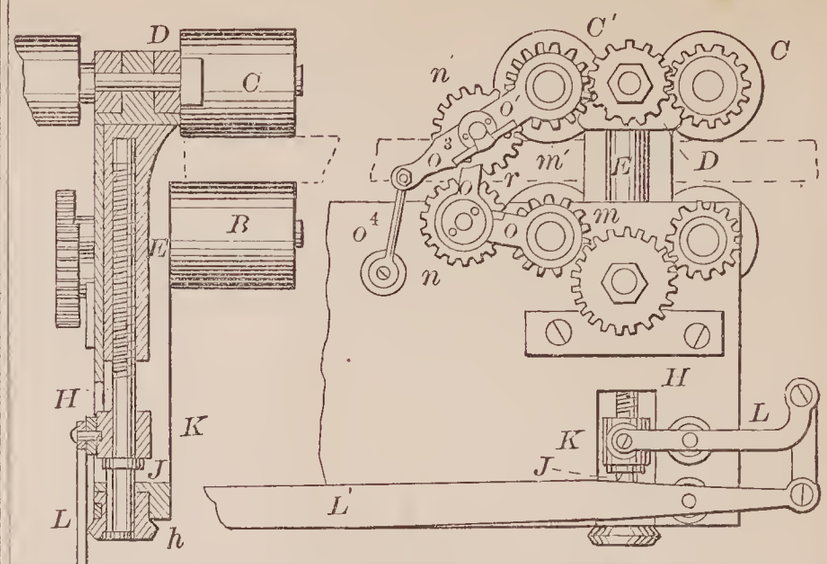
77008—D. W. De Forest—*Mucilage Bottle.*



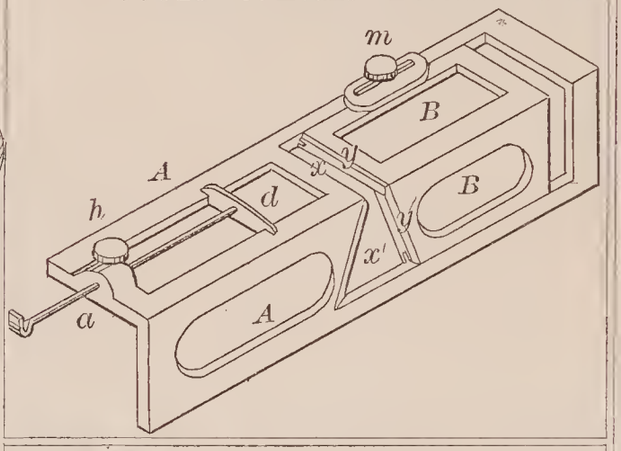
77011—A. J. Deru—*For Preparing Wool, Cotton, &c.*



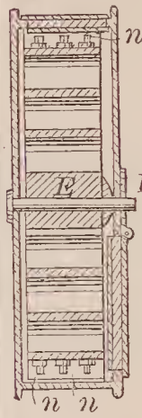
77013—F. Douglas—*Wood Planing Machine.*



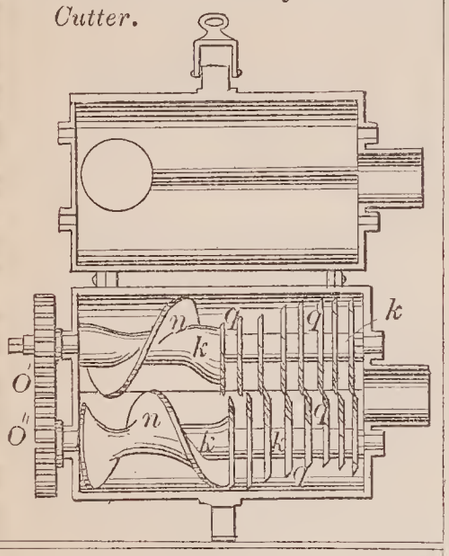
77018—J. Evans—*Dovetail Marker*

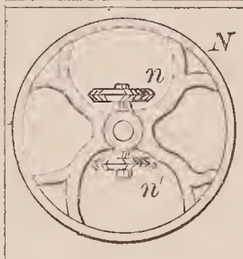


77016—J. Elbertson—*Cartridge Box.*



77014—A. J. Eddy—*Meat Cutter.*





77015—R. S. Eddy—*Horse Power.*

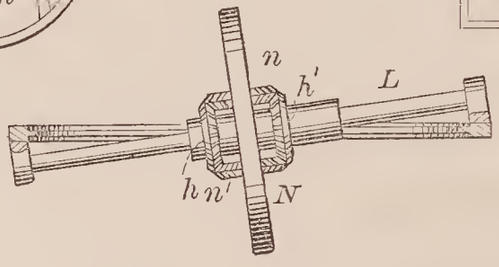
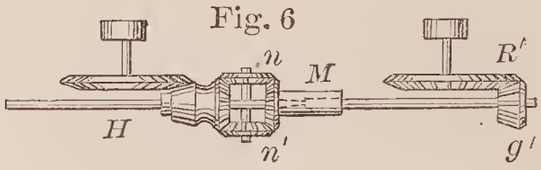


Fig. 6



77017—Elmerhorst & Matthiessen—*Centrifugal Machine.*

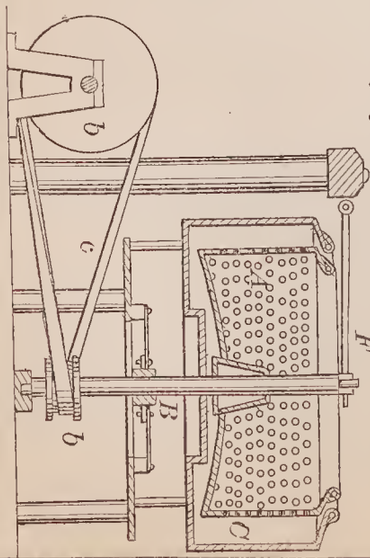


Fig. 2

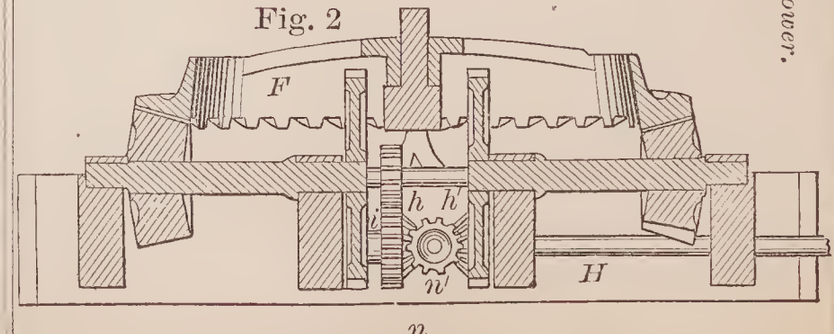
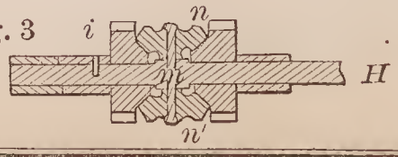
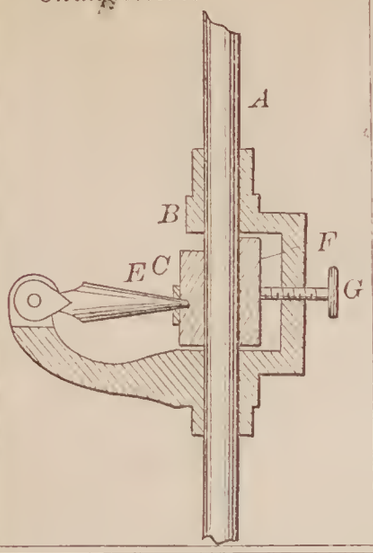


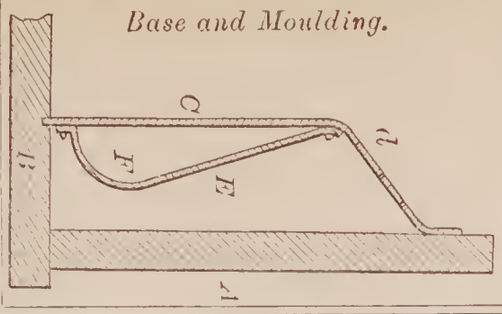
Fig. 3



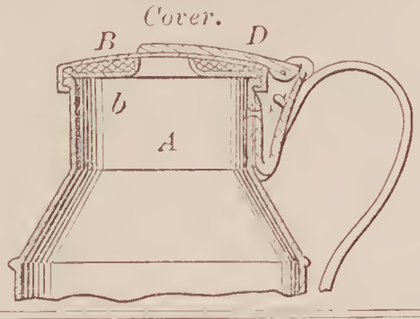
77019—J. H. Evarts—*Extension Fixture for Chandeliers.*



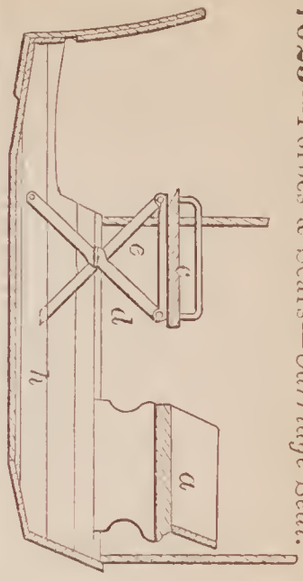
77022—C. E. Finkle—*Metallic Base and Moulding.*



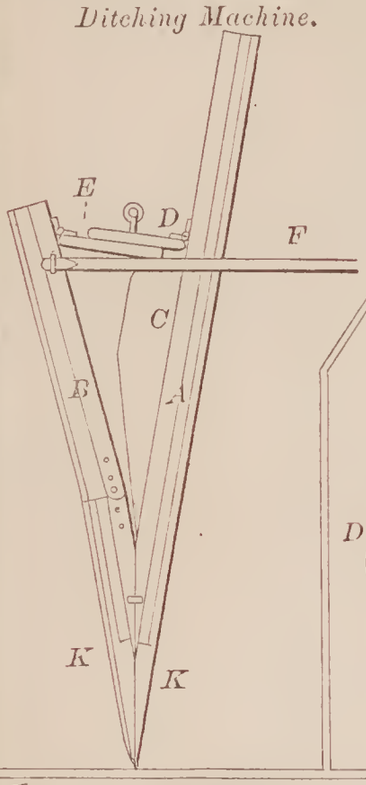
77020—J. Fandel—*Milk Can Cover.*



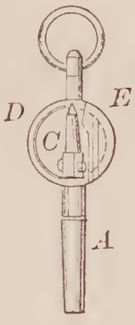
77023—Forbes & Sears—*Carriage Seat.*



77024—E. L. Foreman—*Ditching Machine.*

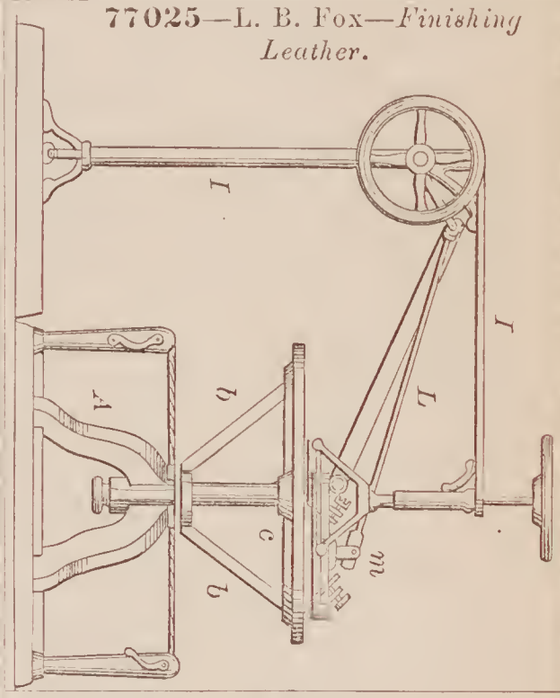


77028—H. Ganney—*Watch Key.*

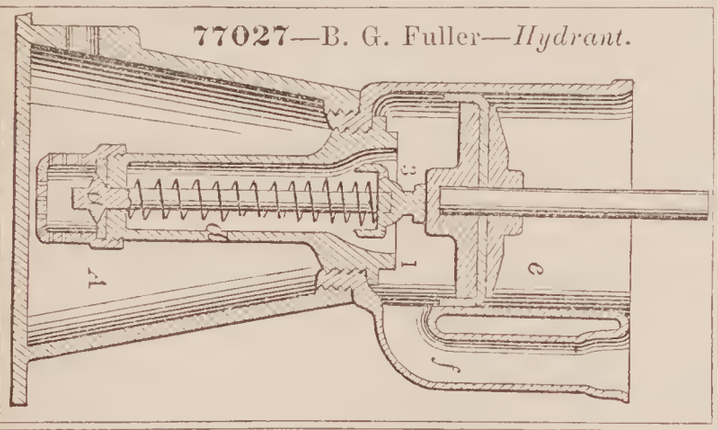


77026—J. D. Frary—*Table Fork.*

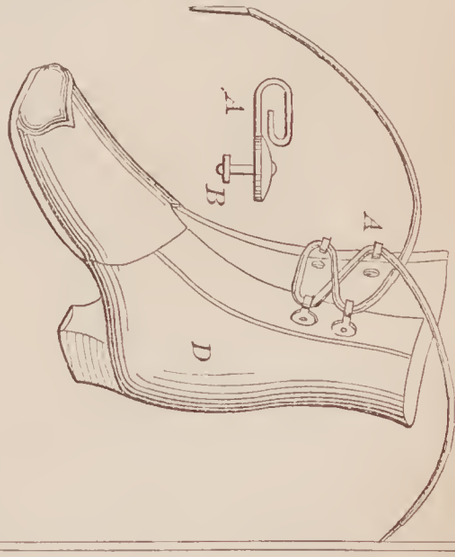
77025—L. B. Fox—*Finishing Leather.*



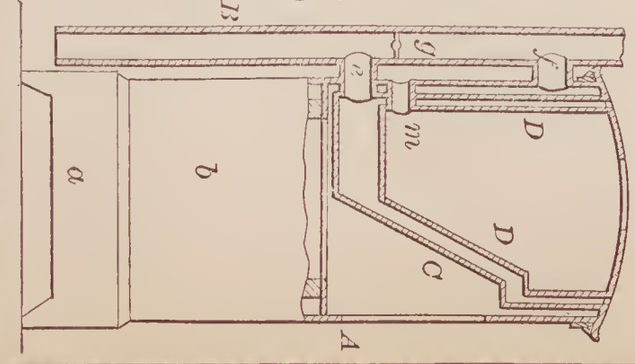
77027—B. G. Fuller—*Hydrant.*



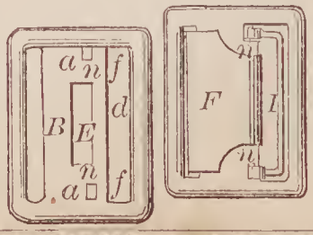
77029—D. A. Gilbert—*Shoe Lacer.*



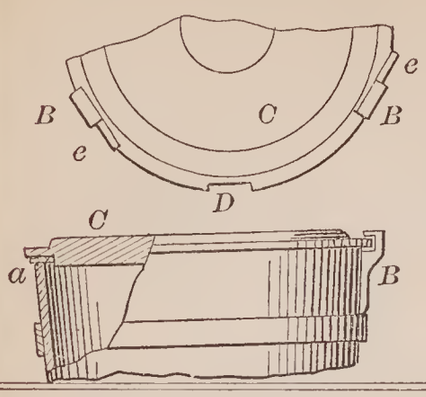
77032—C. B. Gregory—*Coal Stove.*



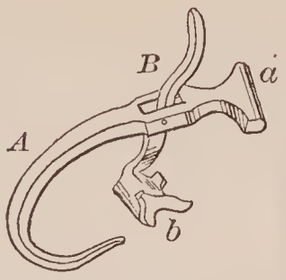
77033—H. C. Griggs—*Buckle.*



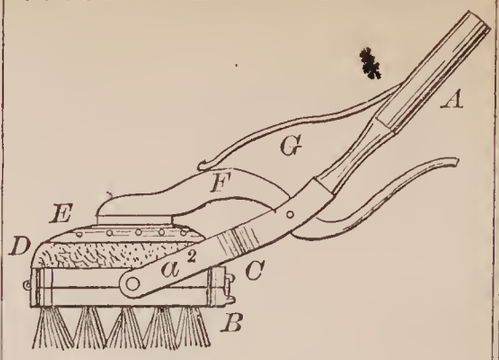
77030—D. A. Gilbert—*Butter Tub.*



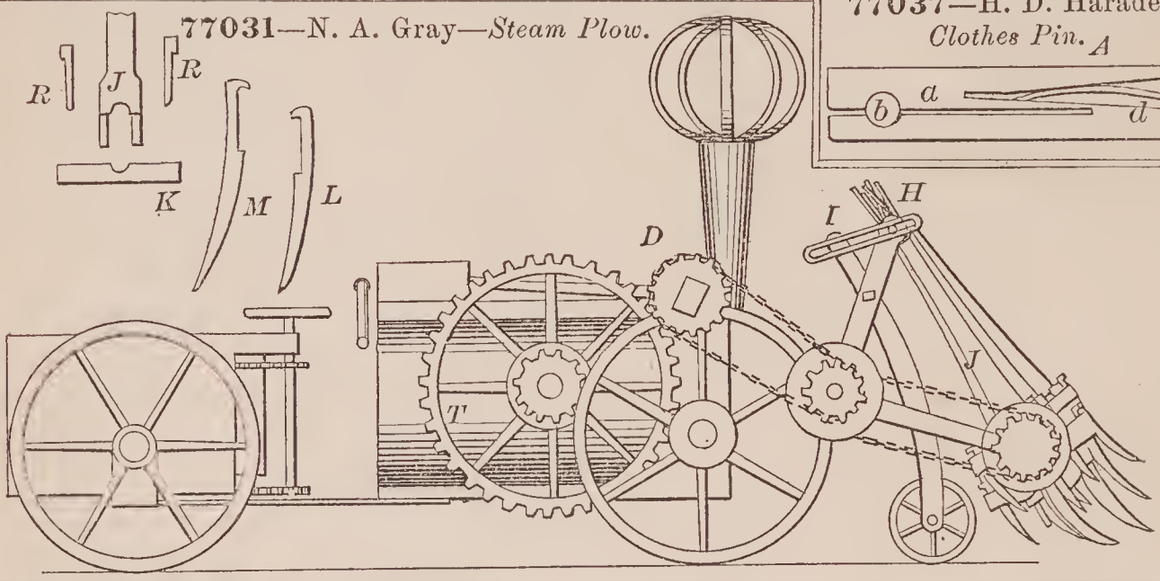
77034—Gruger & Makinson—*Cord Holder.*



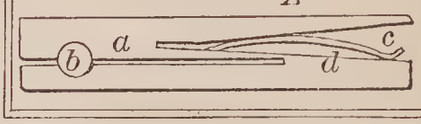
77035—V. A. Hacker—*Scrubber.*



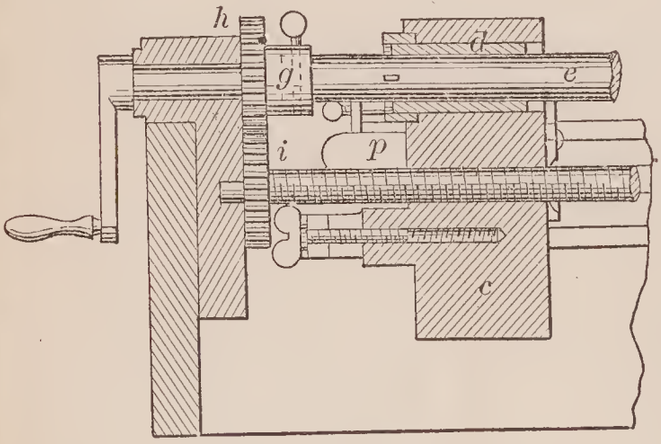
77031—N. A. Gray—*Steam Plow.*



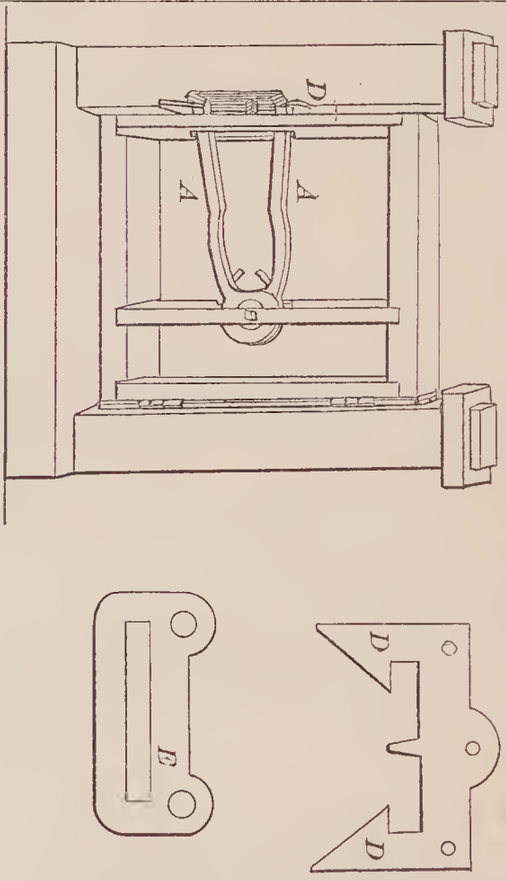
77037—H. D. Haraden—*Clothes Pin.*



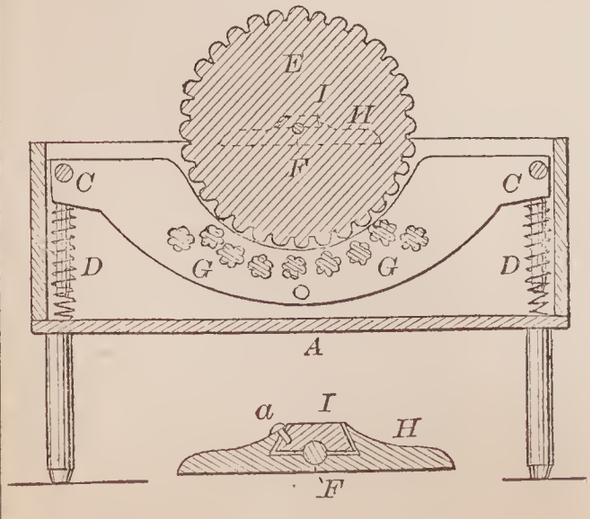
77036—J. Hale—*For Bending Wood.*



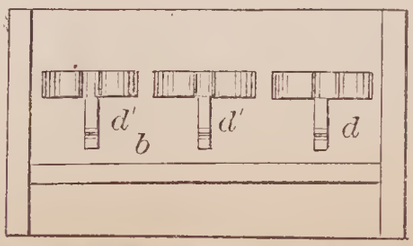
77040—C. C. Holcomb—*Gate and Door Latch.*



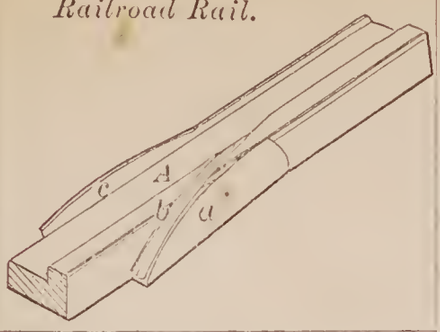
77041—Hood & Kelly—*Washing Machine.*



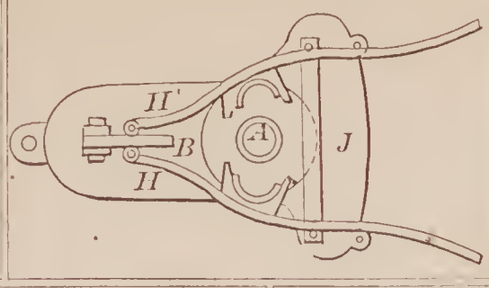
77038—A. Hartupee—*Grate Bar.*



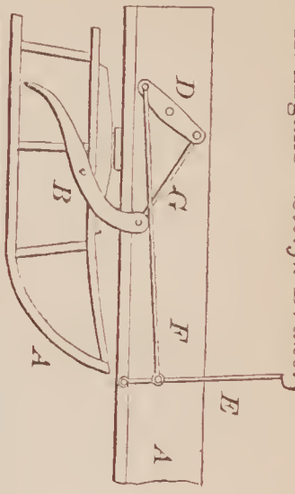
77039—J. H. Herman—*Railroad Rail.*



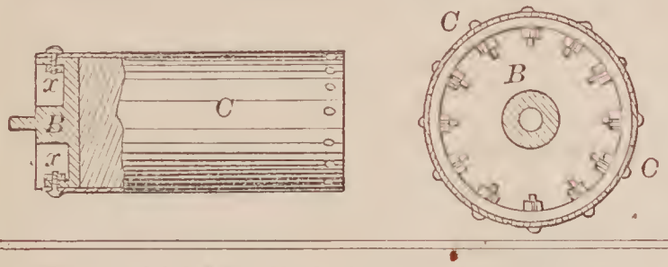
77042—Hue & Roziere—*Moulding Design.*



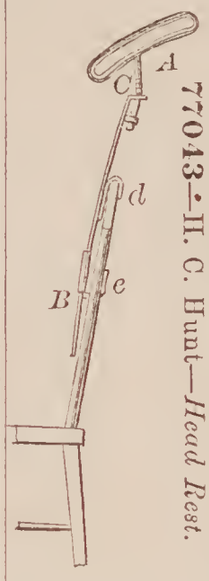
77045—A. Ingalls—*Sleigh Brake.*



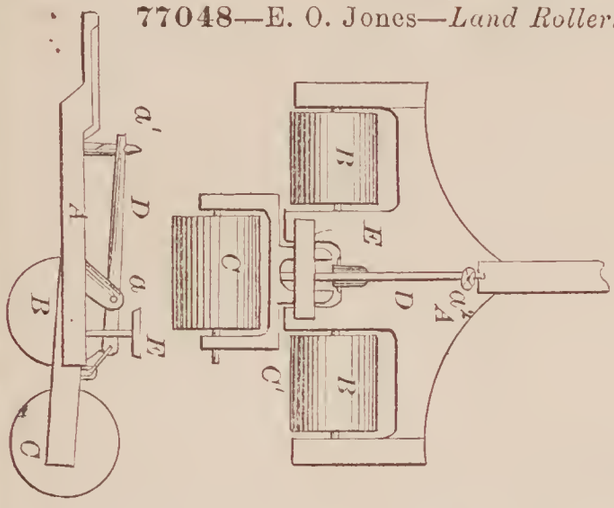
77044—E. F. Hutchinson—*Land Roller.*



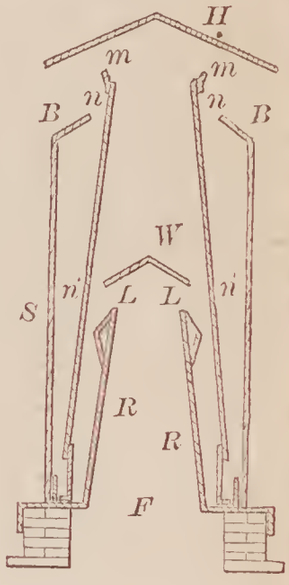
77043—H. C. Hunt—*Head Rest.*



77048—E. O. Jones—*Land Roller.*

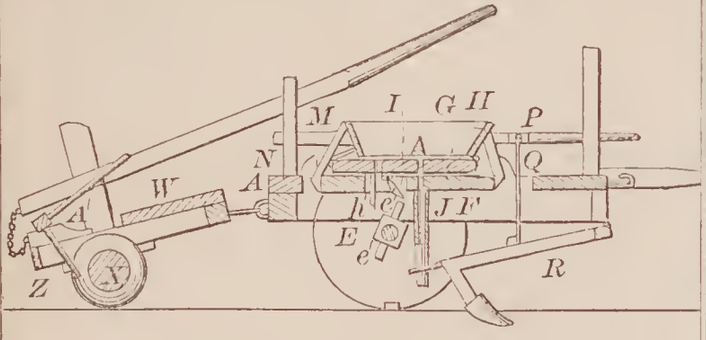


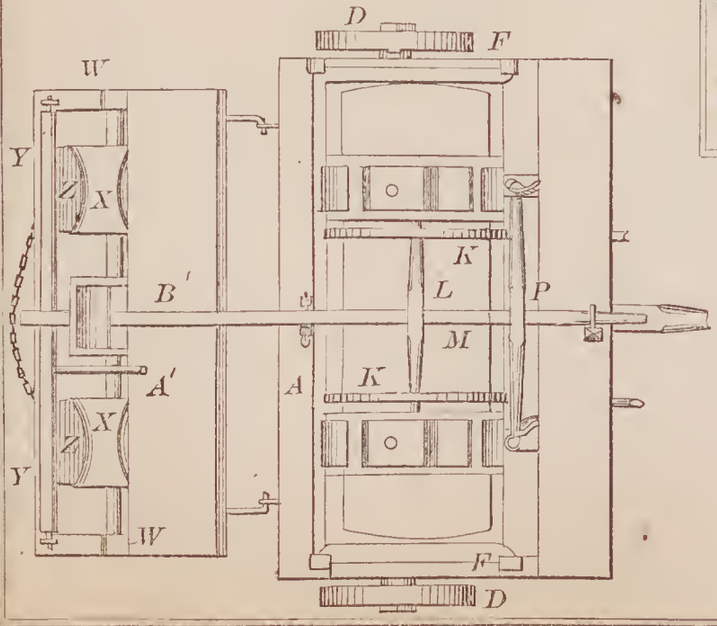
77047—D. F. Jauss—*Chimney Cowl.*



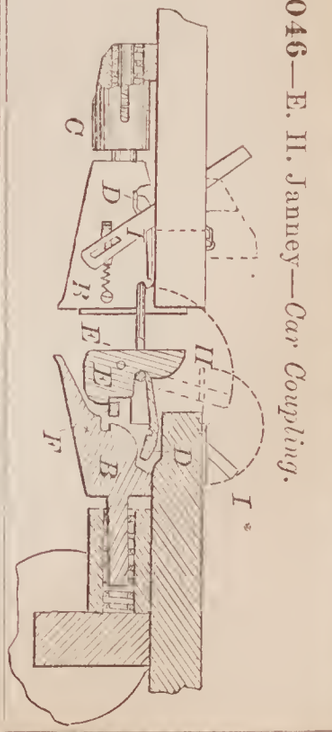
77049—J. W. Kelley—*Attaching Whip Sockets.*

77050—D. A. Kershner—*Corn Planter.*

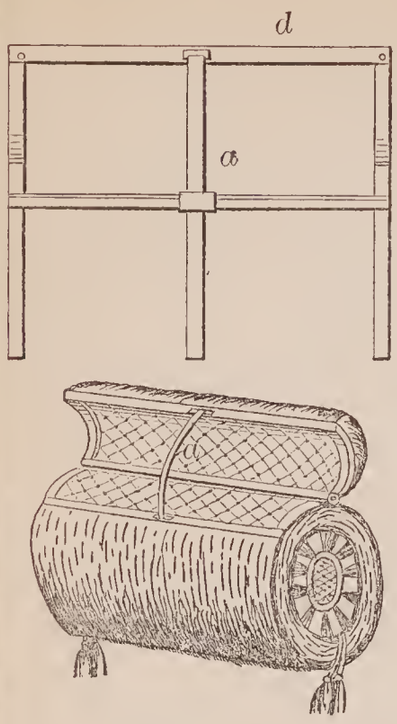




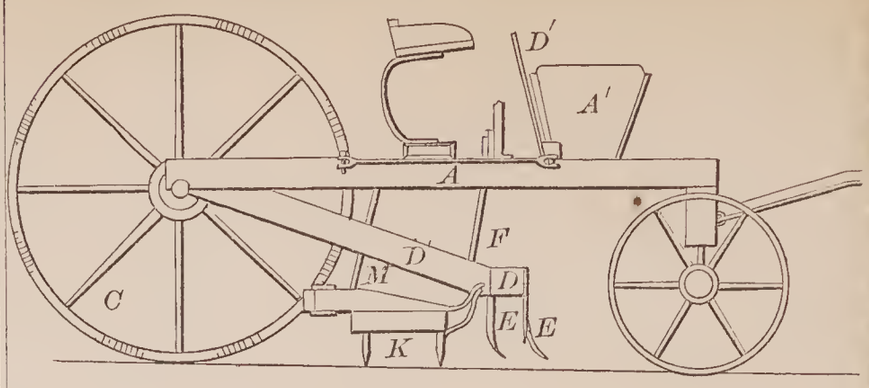
77046—E. H. Janney—*Car Coupling.*

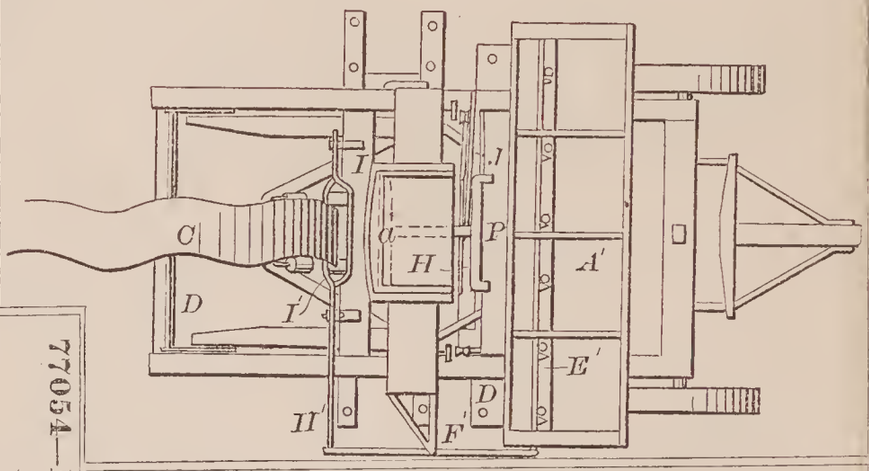


77051—M. A. King—*Muff.*

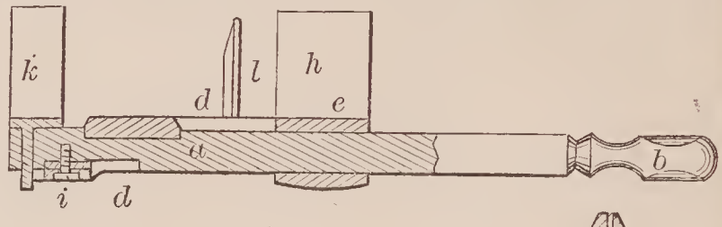


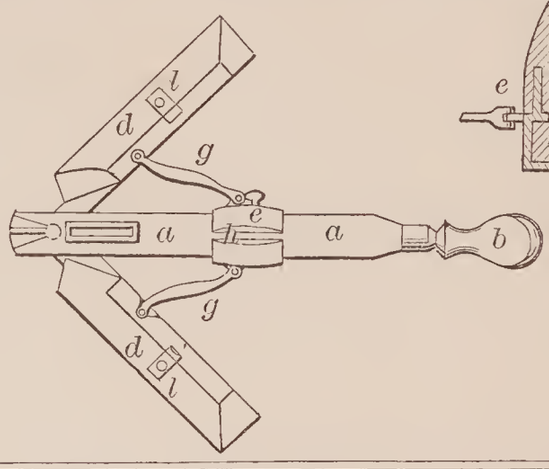
77052—D. Kint—*Seeder. Cultivator and Harrow.*

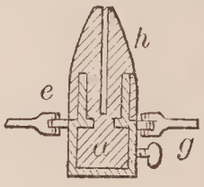




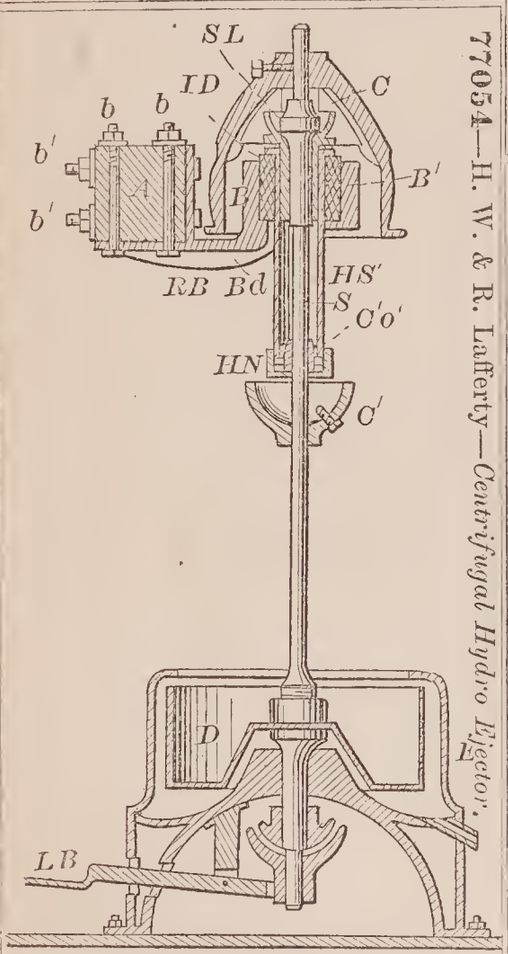
77053—La Baw, Hutchinson & Fleming—*Mitre Gauge.*



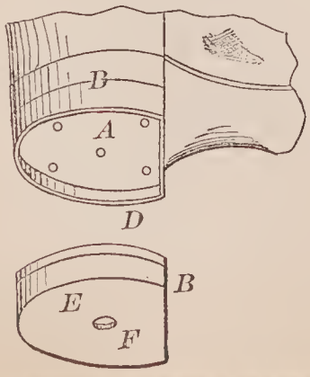




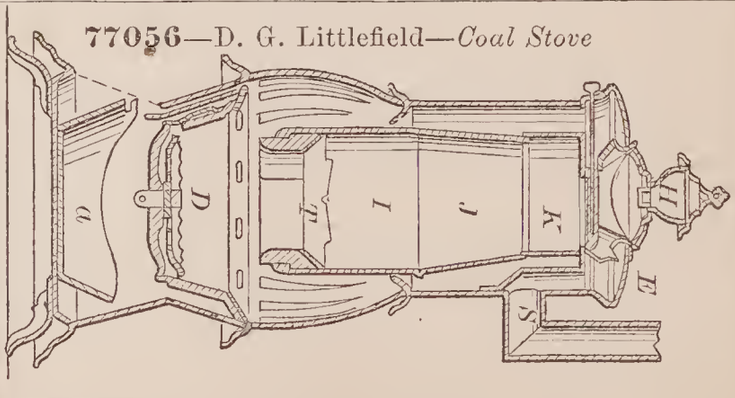
77054—H. W. & R. Lafferty—*Centrifugal Hydro Ejector.*



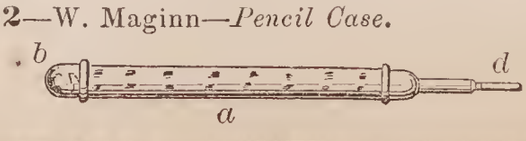
77055—G. Lane—*Boot Heel.*



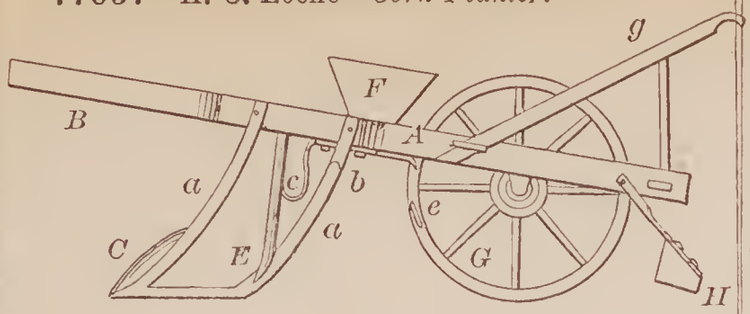
77056—D. G. Littlefield—*Coal Stove*

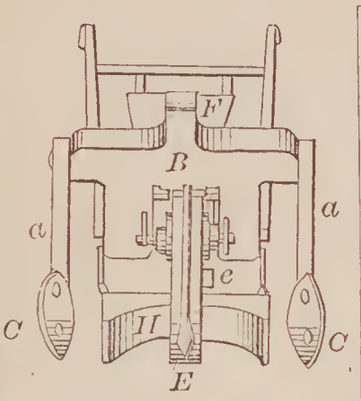


77062—W. Maginn—*Pencil Case.*

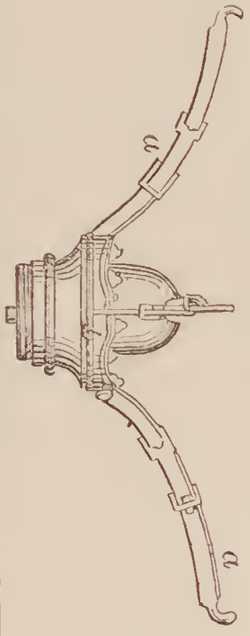


77057—H. C. Locke—*Corn Planter.*

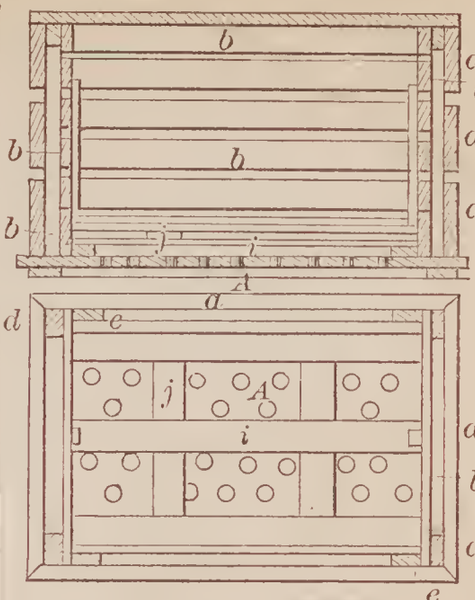




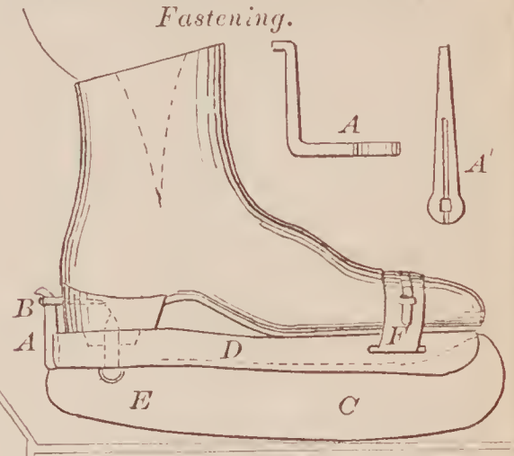
77059—J. W. Lyon—*Lamp Shade Supporter.*



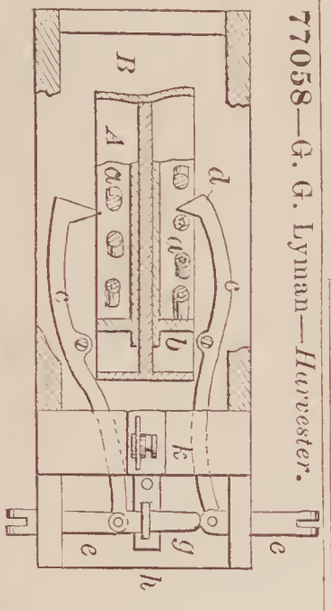
77060—T. Mabbett Sr.—*Fruit Crate.*



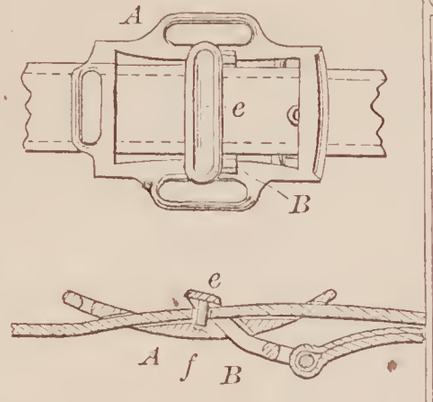
77061—Maedd & Wolff—*Skate Fastening.*



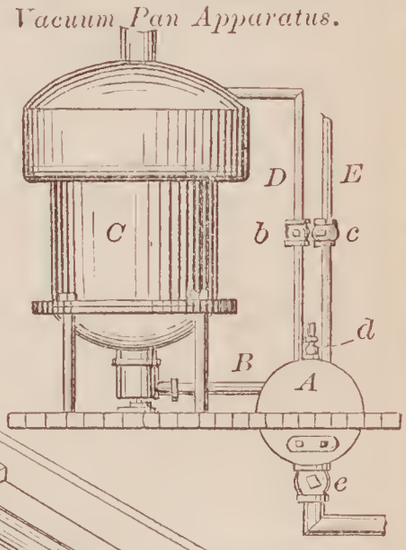
77058—G. G. Lyman—*Harvester.*



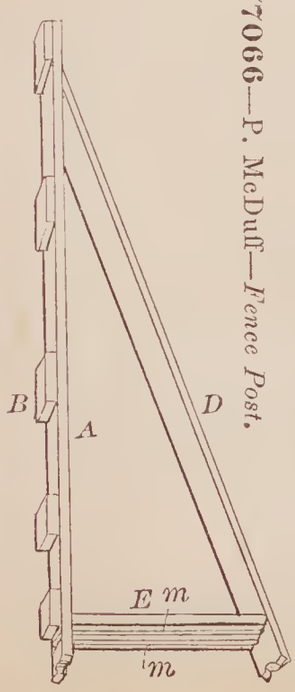
77064—J. A. Mashmeyer—*Buckle.*



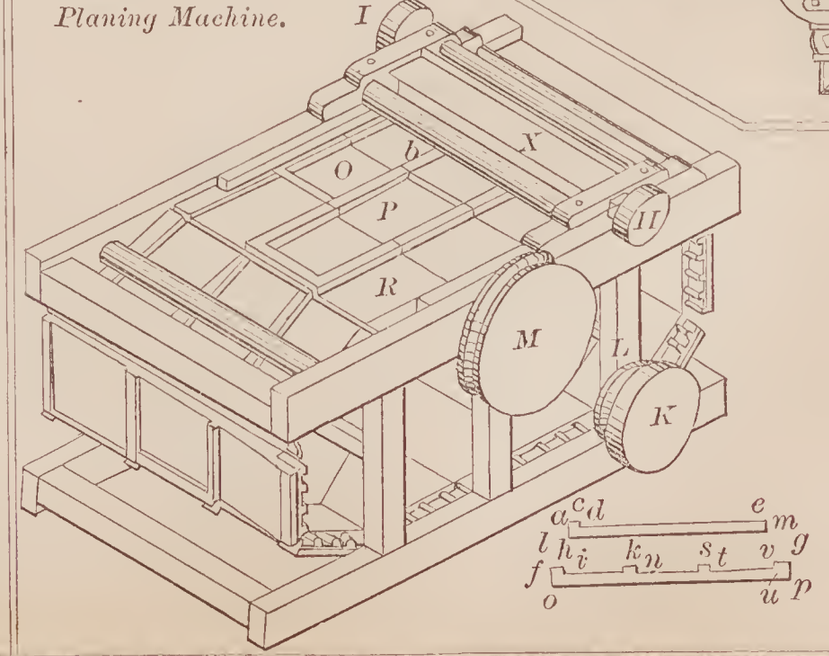
77065—F. O. Matthiessen—*Vacuum Pan Apparatus.*



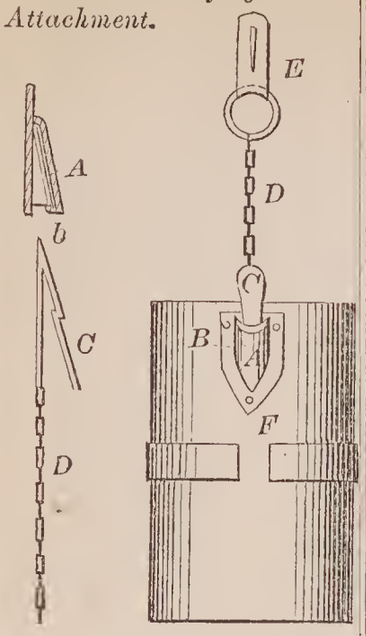
77066—P. McDuff—*Fence Post.*



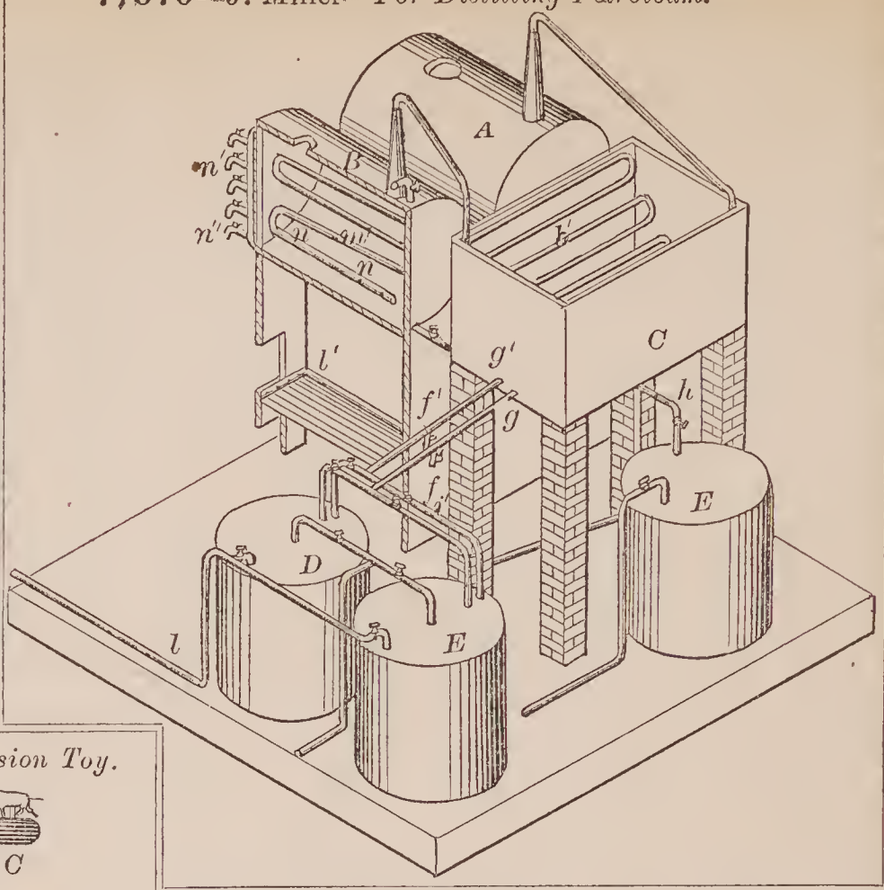
77067—H. G. McDuffe—*Planing Machine.*



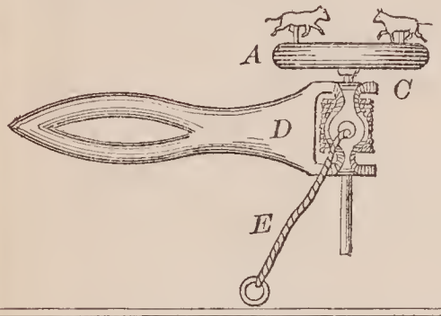
77068—A. McNeill—*Pocket Book Safety Attachment.*



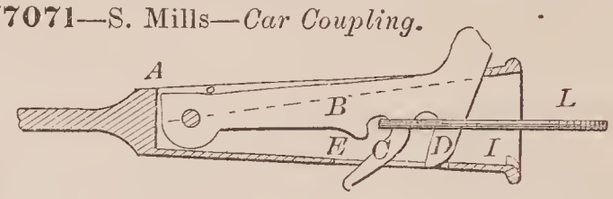
77070—J. Miller—*For Distilling Petroleum.*



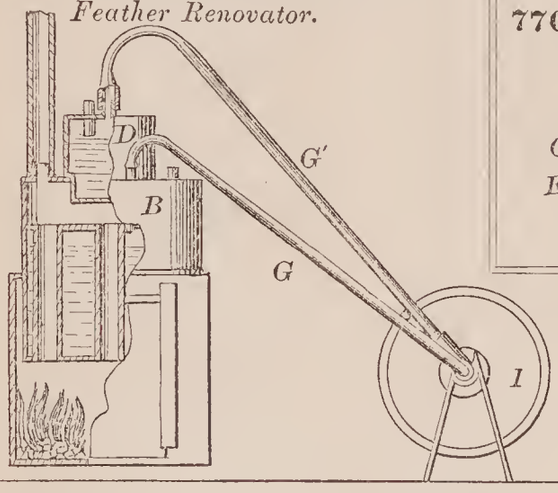
77072—J. A. Minor—*Illusion Toy.*



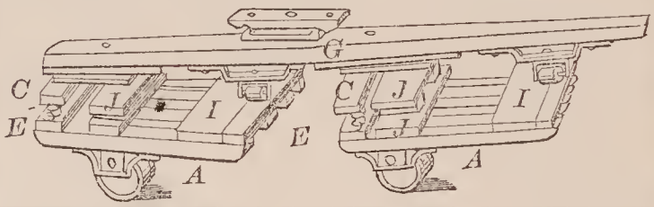
77071—S. Mills—*Car Coupling.*

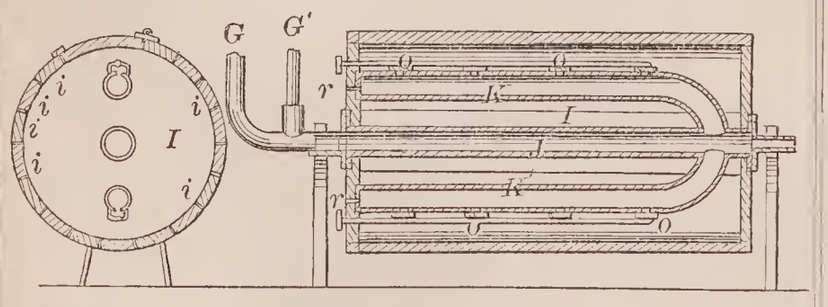


77075—Moorehead & Elliott—*Feather Renovator.*

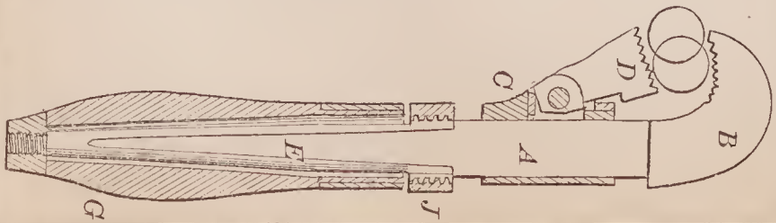


77074—C. H. Moore—*Moving Buildings.*

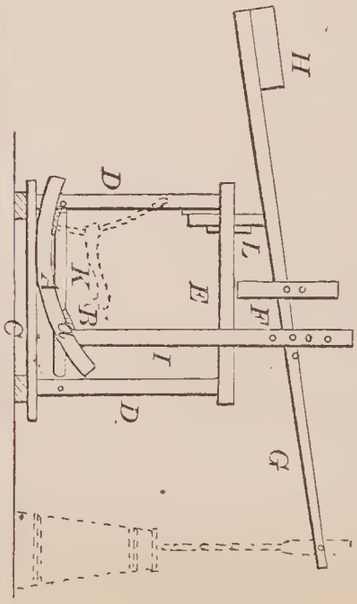




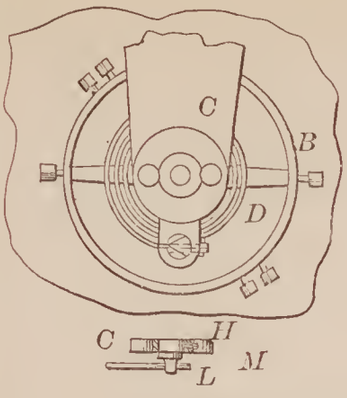
77076—I. Morse—*Wrench*



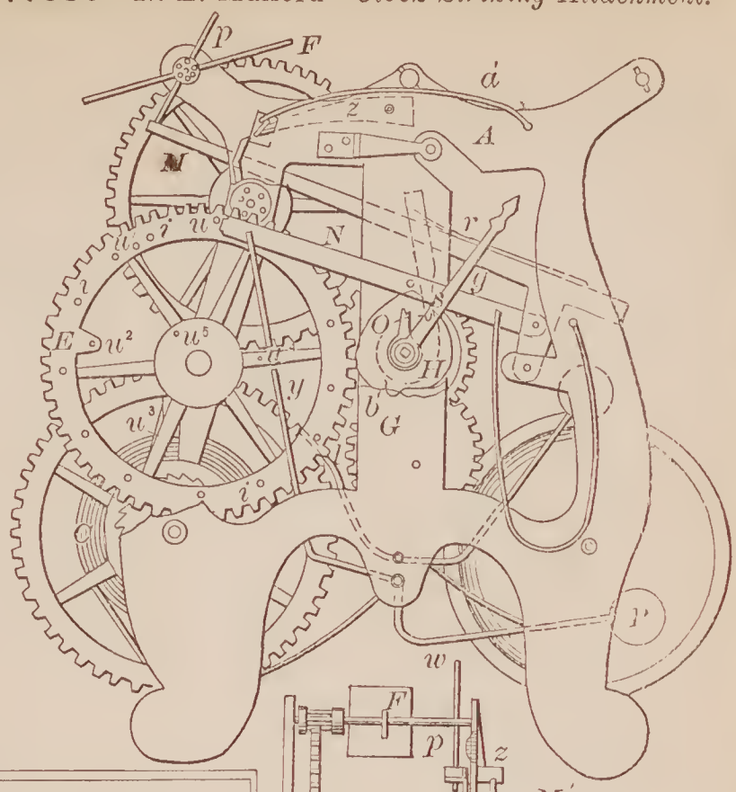
77077—I. Morse—*For Operating Churns, &c.*



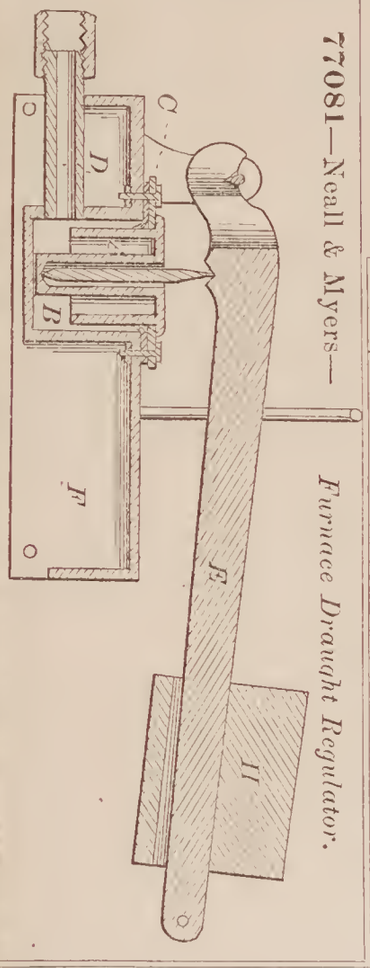
77078—C. S Moseley—*Watch.*



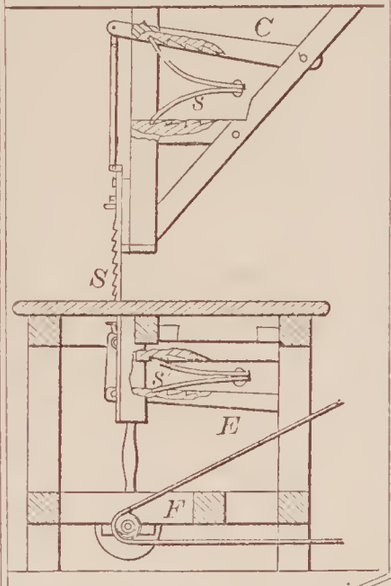
77080—N. E. Mulford—*Clock Striking Attachment.*

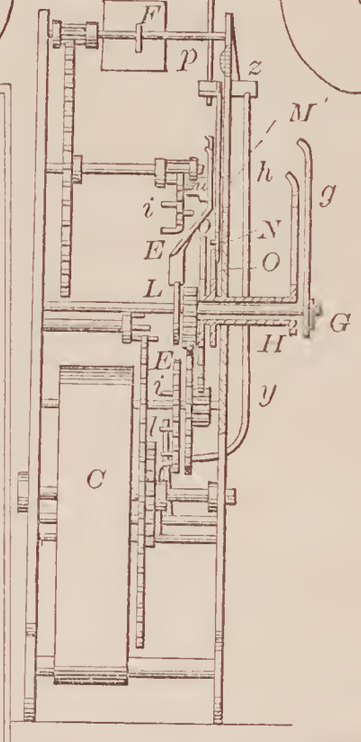


77081—Neall & Myers—*Furnace Draught Regulator.*

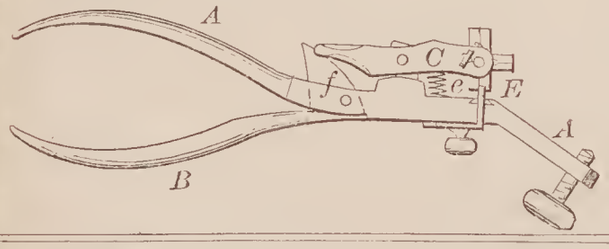


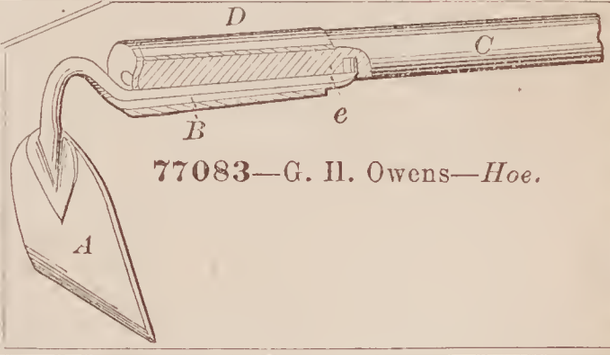
77079—J. W. Moyer—*Saw Mill.*





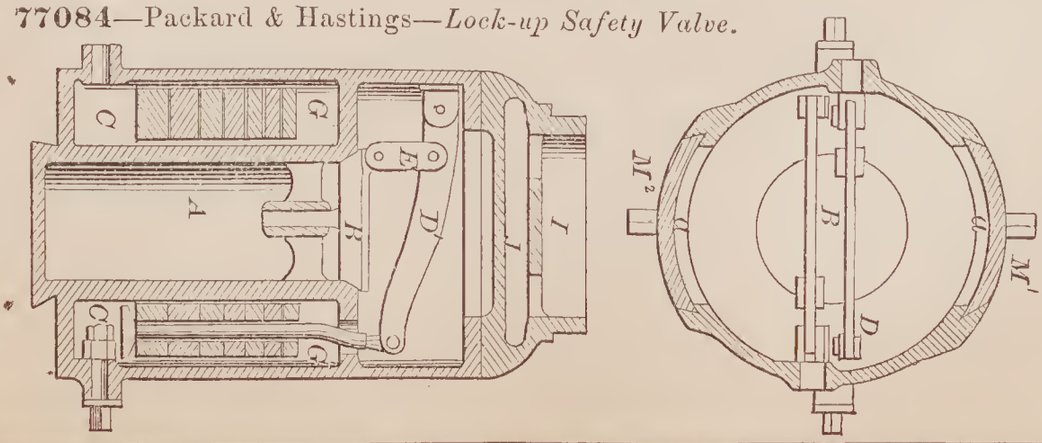
77082—Noepel & Assman—*Saw Set.*



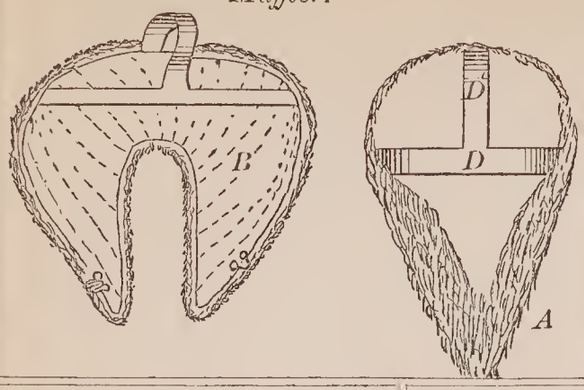


77083—G. H. Owens—*Hoe.*

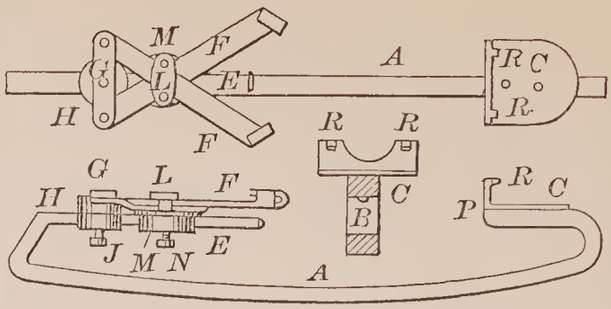
77084—Packard & Hastings—*Lock-up Safety Valve.*



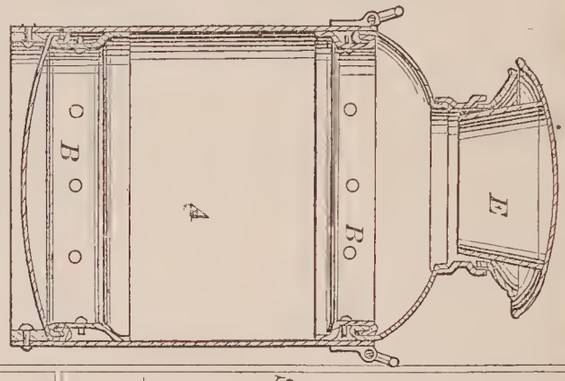
77085—G. W. & W. F. Parker—*Fur Muffler.*



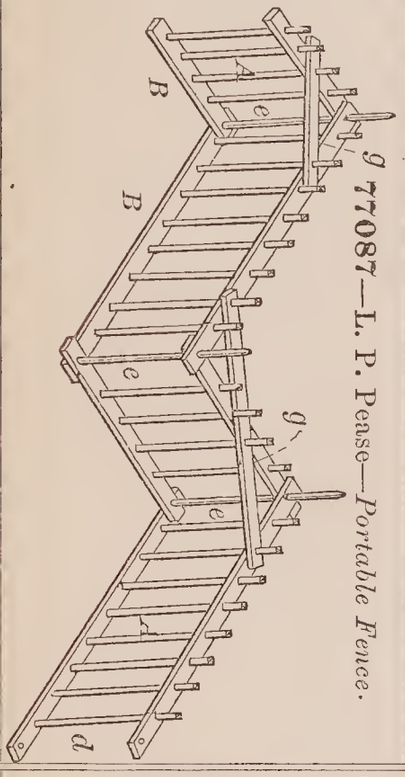
77089—R Pohl—*Skate.*



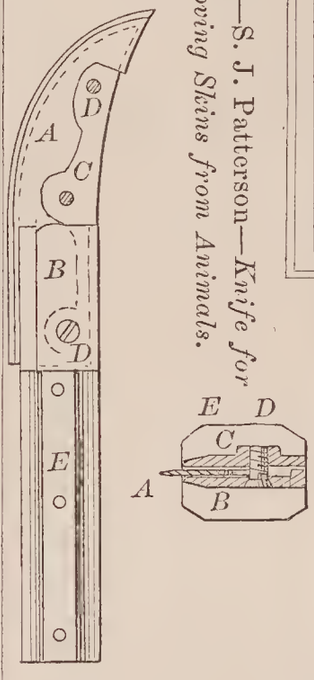
77092—C. A. Reight—*Milk Can.*



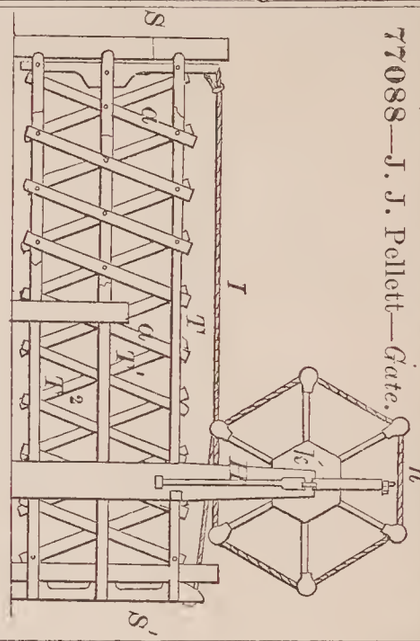
77087—L. P. Pense—*Portable Fence.*



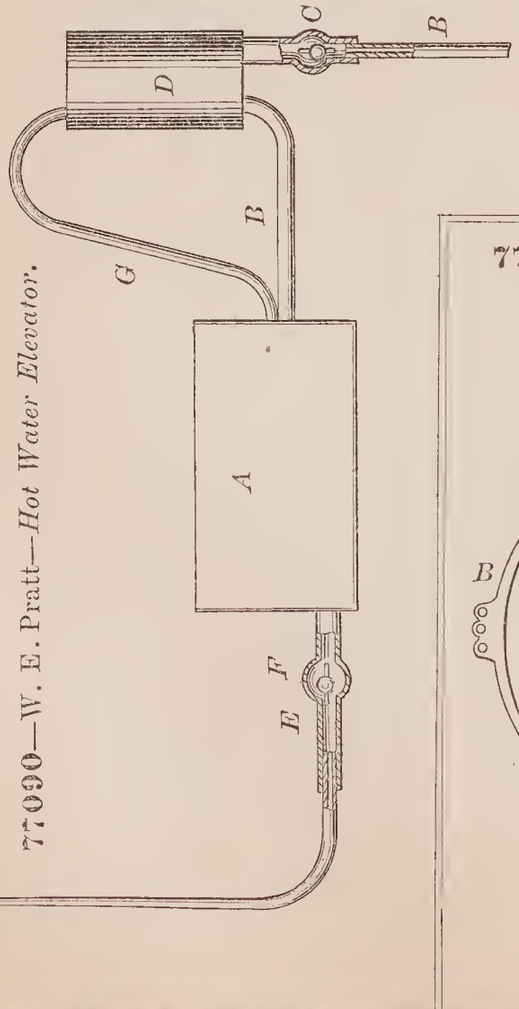
77086—S. J. Patterson—*Knife for Removing Skins from Animals.*



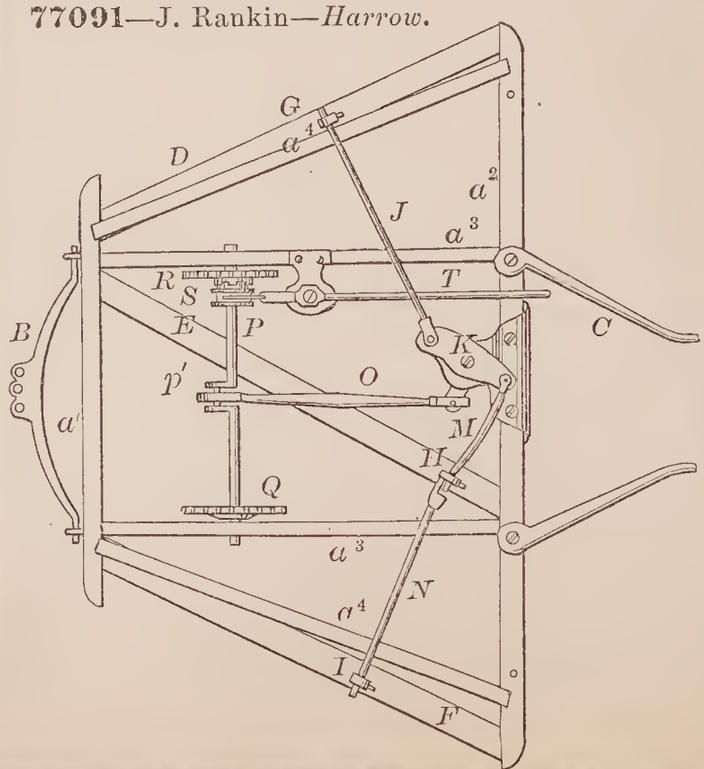
77088—J. J. Pellett—*Gate.*



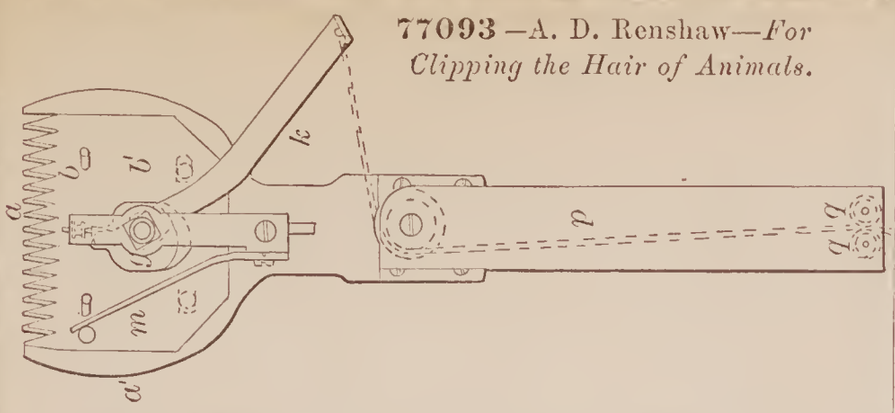
77090—W. E. Pratt—*Hot Water Elevator.*



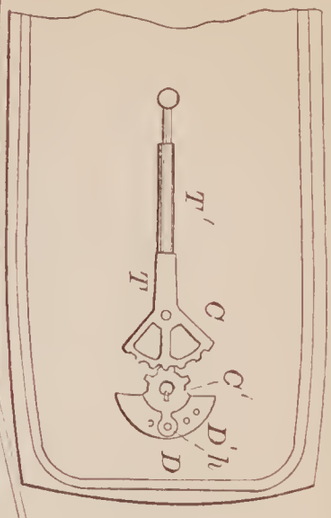
77091—J. Rankin—*Harrow.*



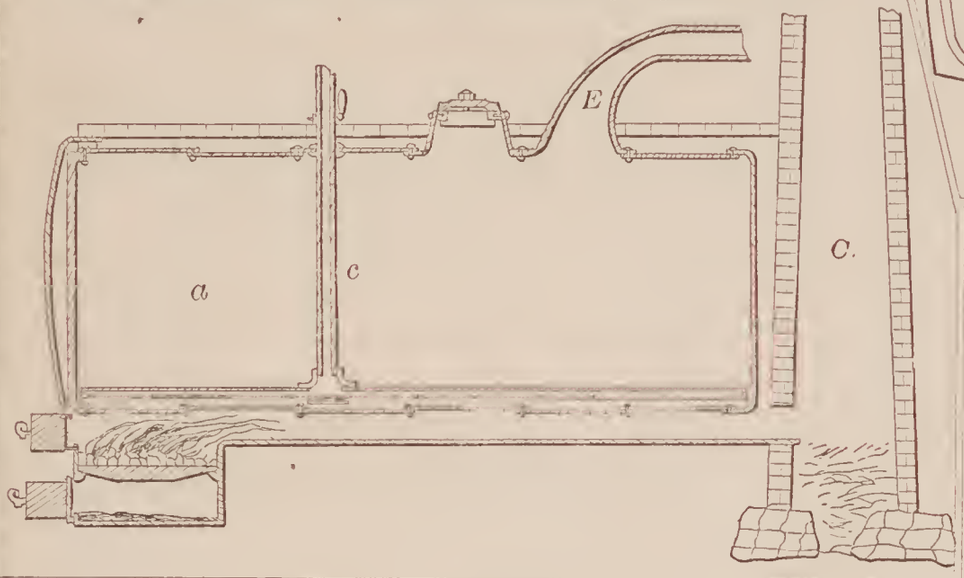
77093—A. D. Renshaw—*For Clipping the Hair of Animals.*



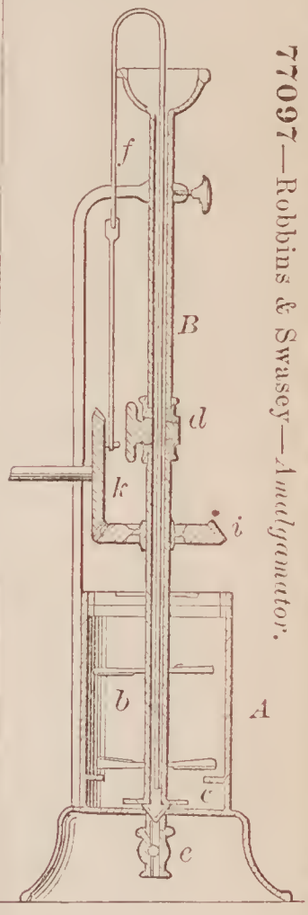
77095—C. T. Ridcout—*Rudder Gear*



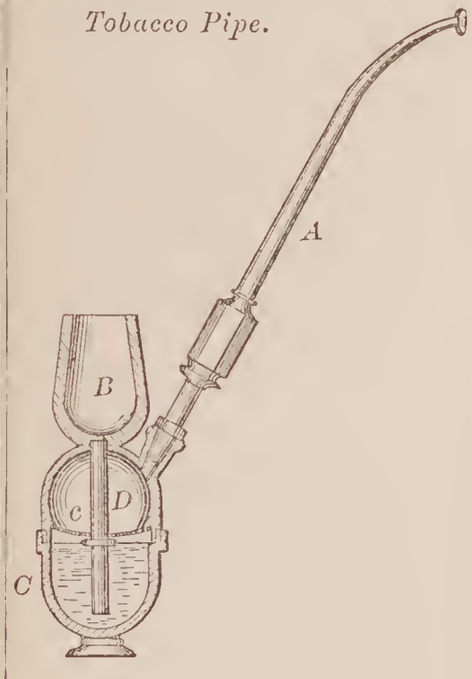
77094—C. W. Requa—*Still for Distilling Hydro-Carbons.*



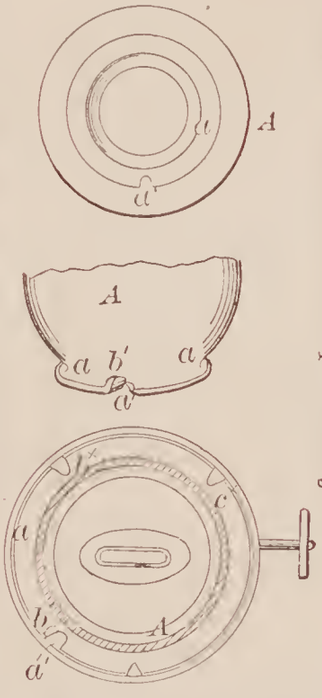
77097—Robbins & Swasey—*Amalgamator.*



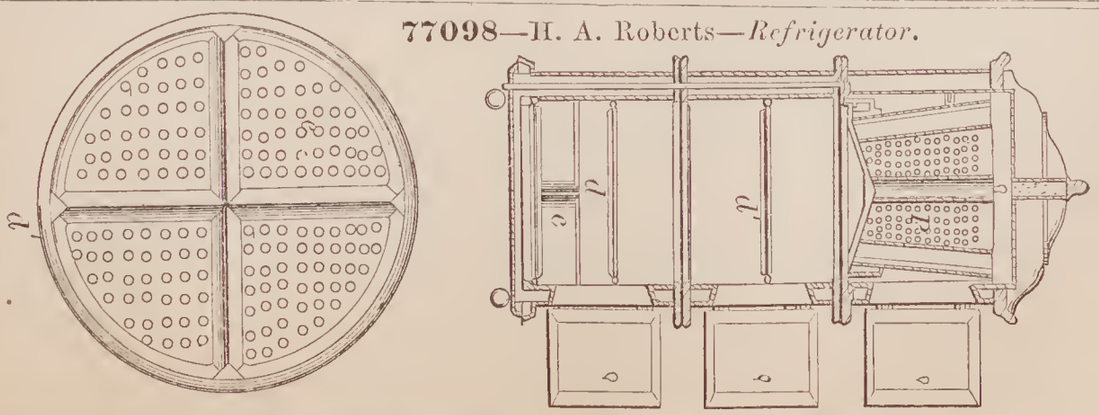
77096—H. R. Robbins—*Tobacco Pipe.*



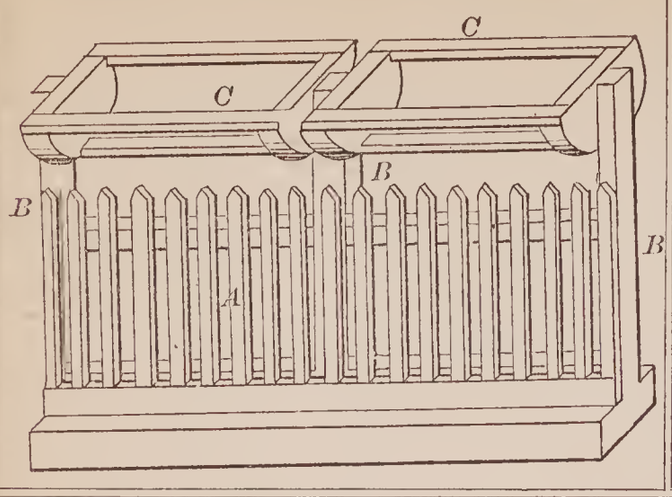
77100—J. Robinson—*Lamp Chimney.*



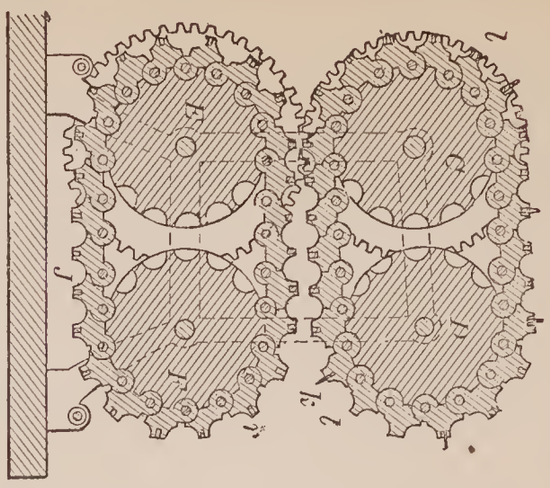
77098—H. A. Roberts—*Refrigerator.*



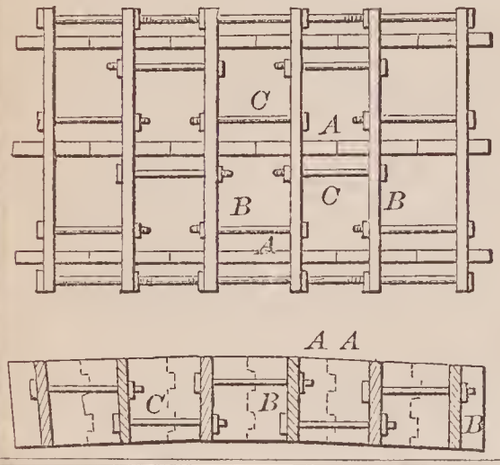
77101—H. W. Rutt—*Poultry Yard Fence.*



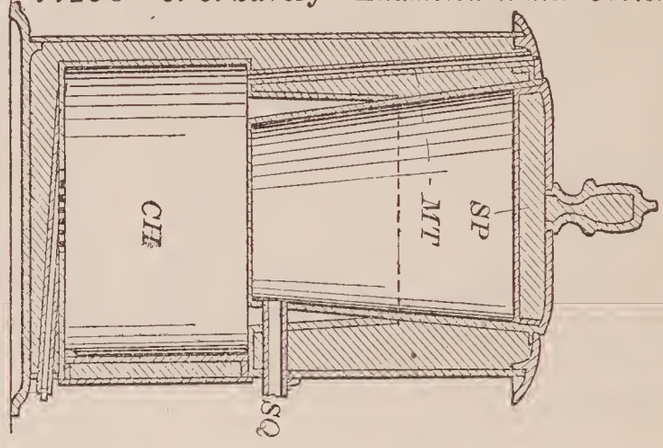
77102—C. E. Rymes—*For Cutting Tobacco.*



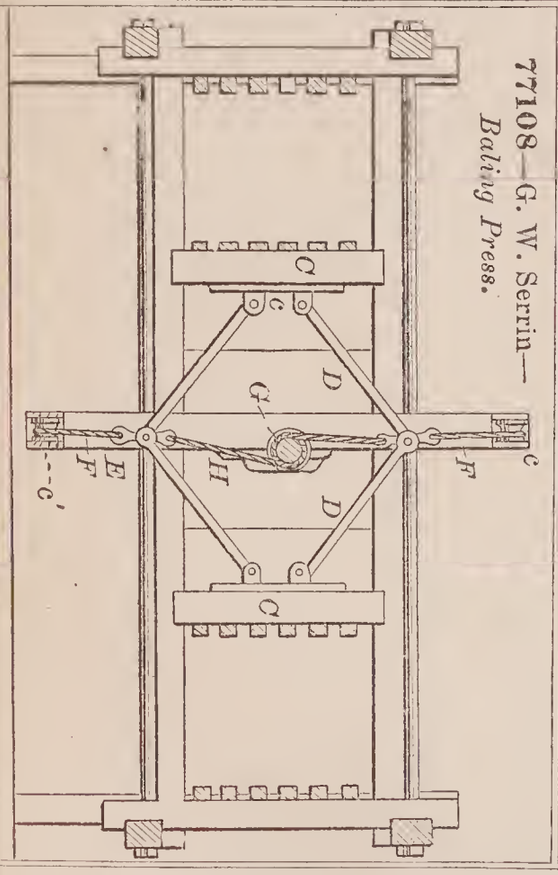
77103—J. Sanderson—*Bridge.*



77106—C. C. Savery—*Enameled Water Cooler.*

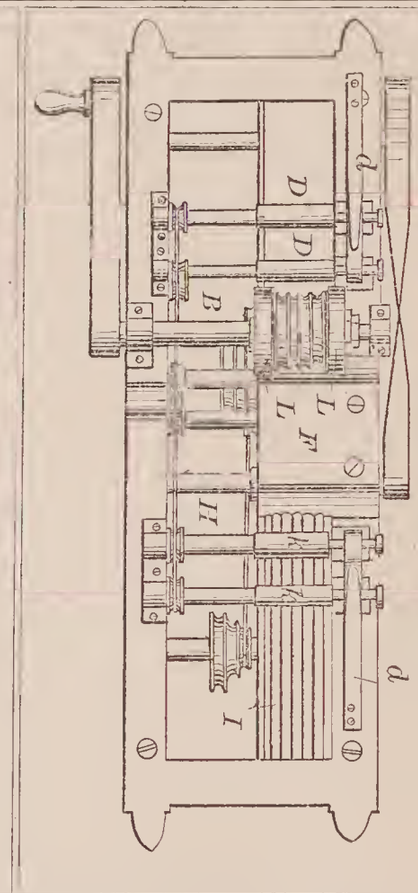


77108—G. W. Serrin—*Baling Press.*

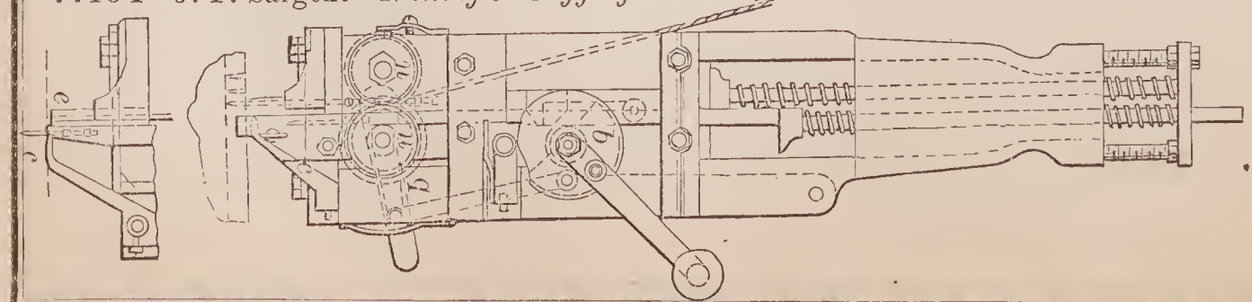


77107—T. A. Searle—*Wrench.*

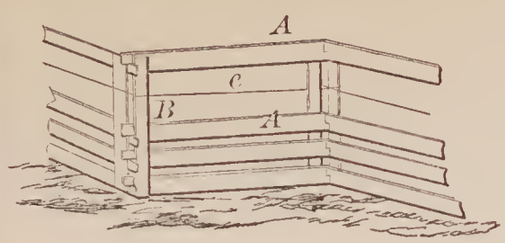
77105—D. R. Satterlee—*For Manufacture of Slate Pencils.*



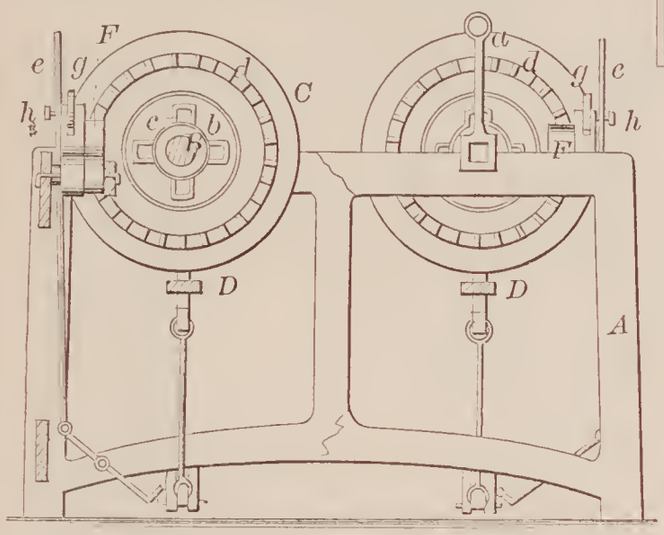
77104—J. F. Sargent—*Nailing or Pegging Machine.*



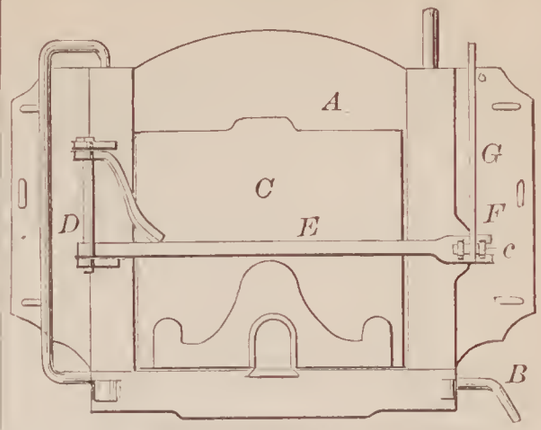
77109—N. L. Shaw—*Fence.*

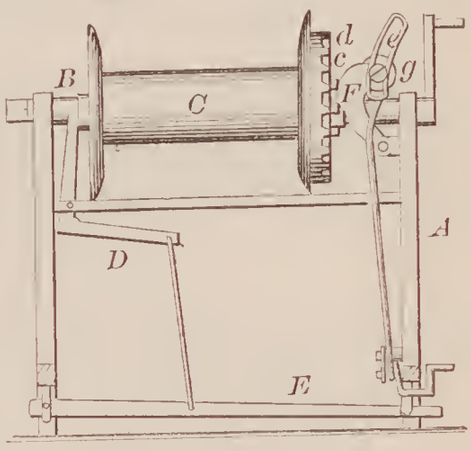


77110—S. S. Shaw—*Oyster Winder.*

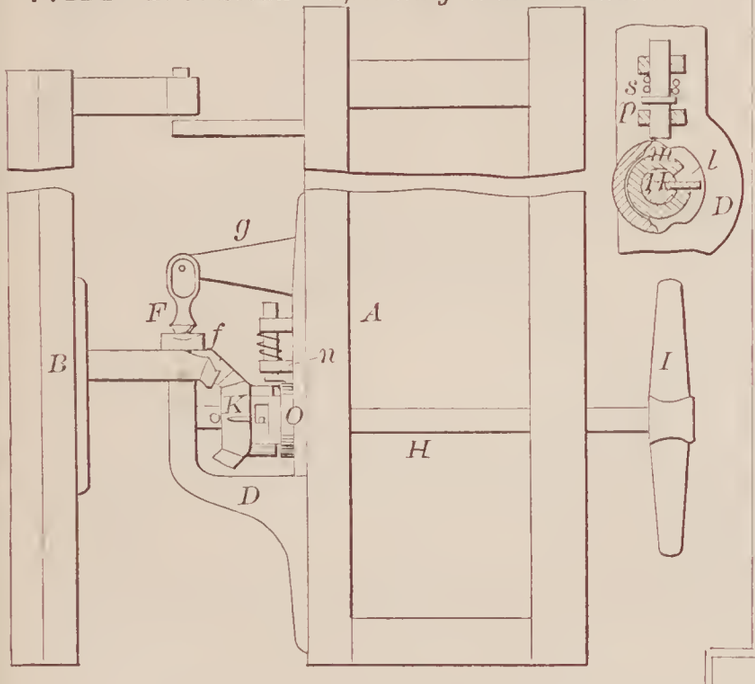


77112—P. E. Shaw—*Furnace Door Fastening.*

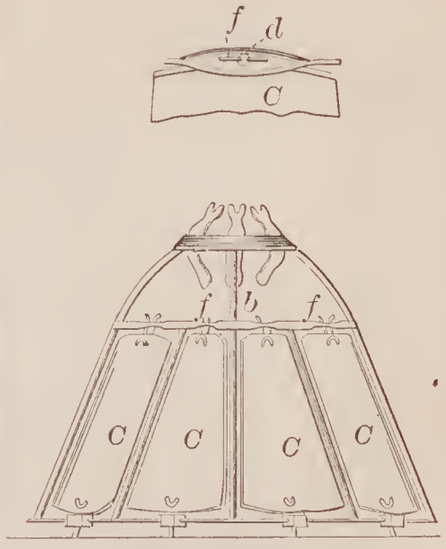




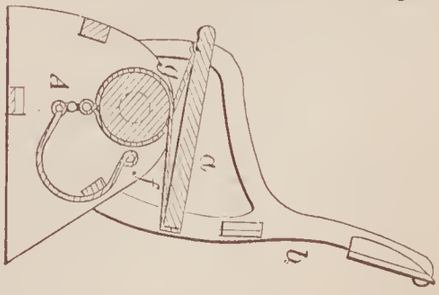
77114—T. J. Sloan—*Operating Window Shutter.*



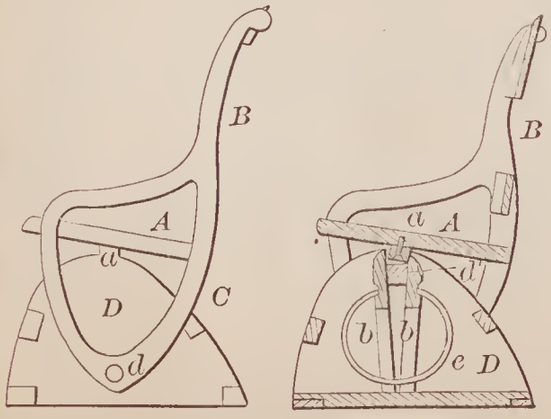
77115—A. A. Smith—*Lamp Shade.*



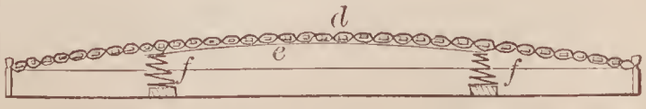
77116—C. D. Smith—*Tilting Chair*



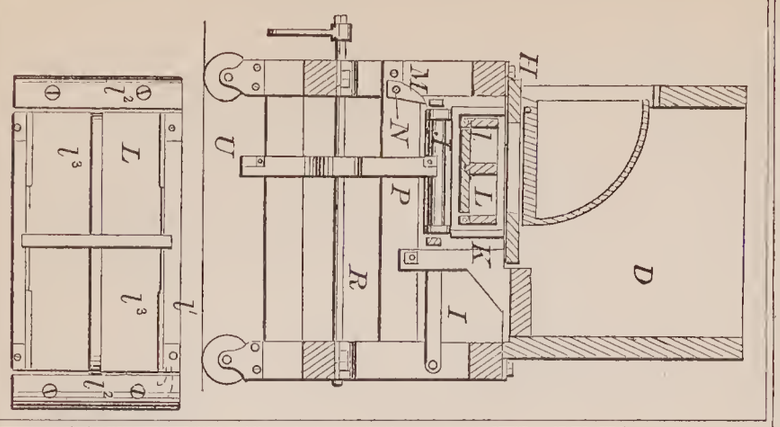
77117—C. D. Smith—*Tilting Chair.*



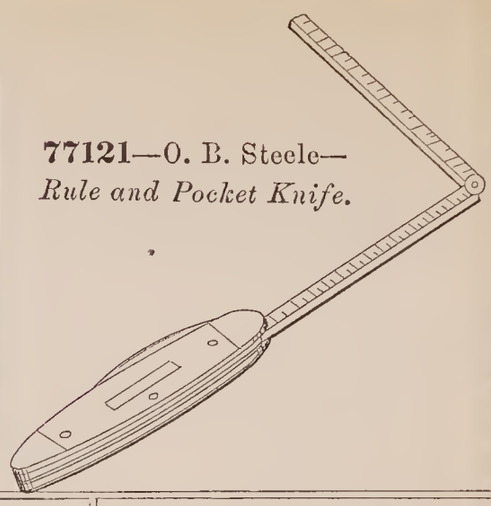
77113—P. P Simmons—*Bed Bottom.*



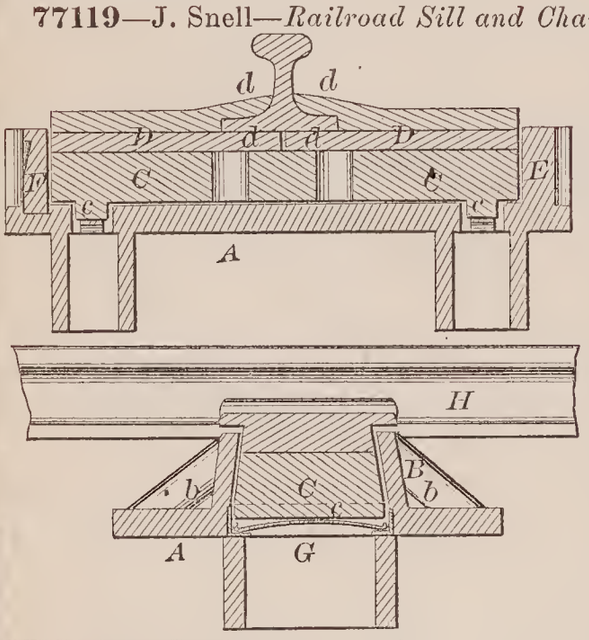
77118—Smith & Florence—*Brick Machine.*



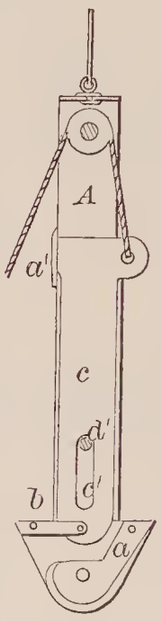
77121—O. B. Steele—
Rule and Pocket Knife.



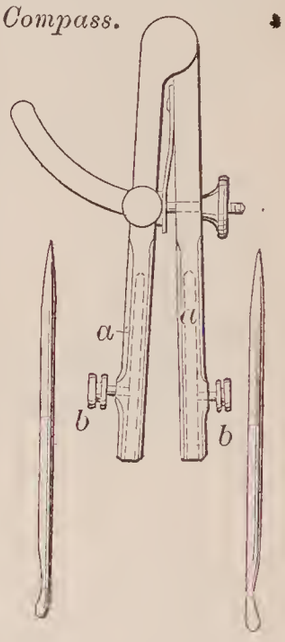
77119—J. Snell—*Railroad Sill and Chair.*



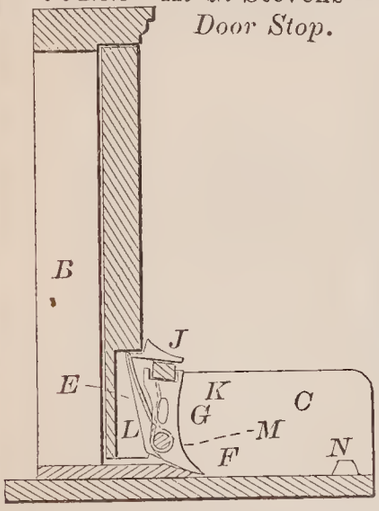
77120—N. Starr, Jr.—*Horse Hay Fork.*



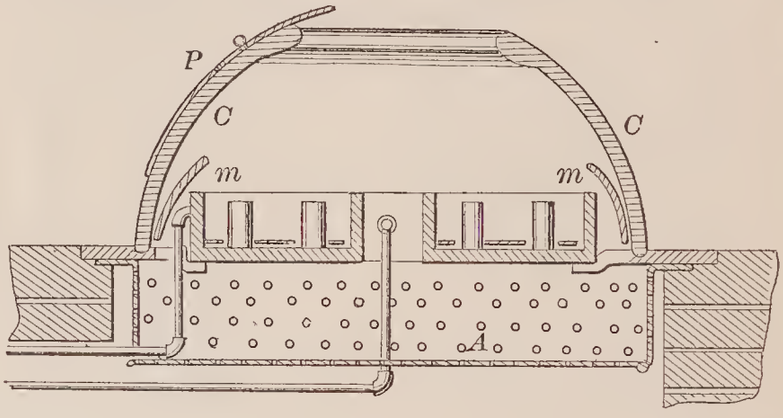
77123—H. Stewart—
Compass.



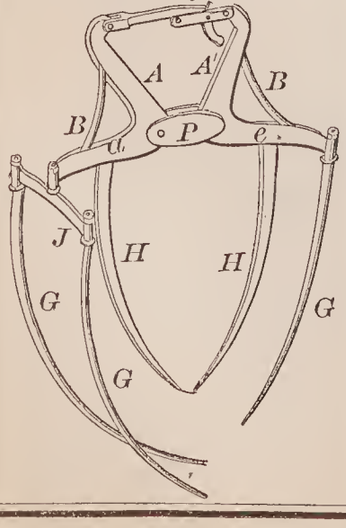
77122—A. G. Stevens—
Door Stop.



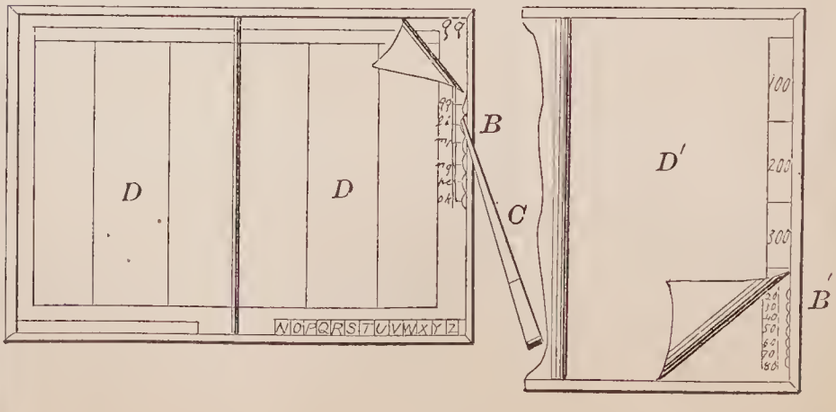
77124—F. T. Suhr—*For Burning Hydro-Carbon.*



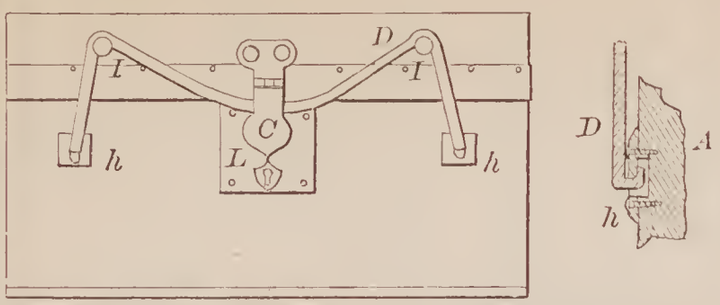
77125—J. B. Sweetland—
Horse Hay Fork.



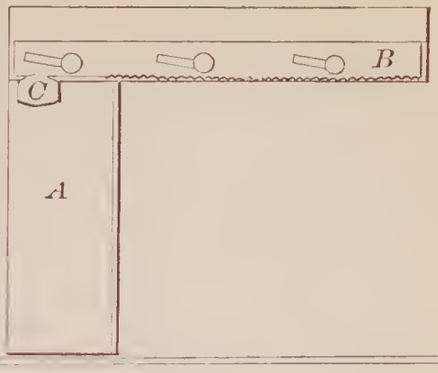
77126—J. H. Swindell—*Indexing Book.*



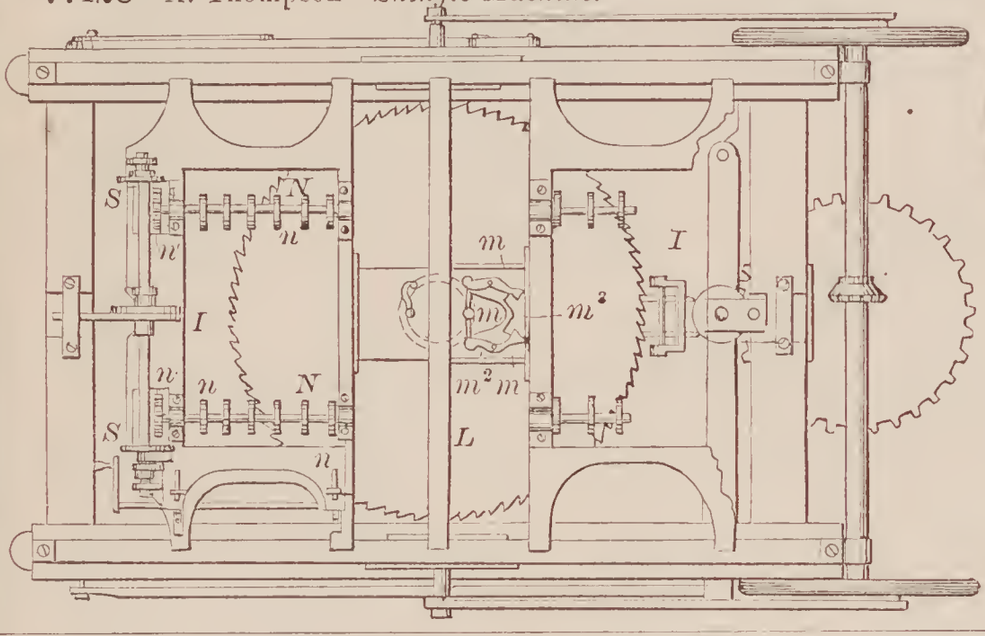
77127—C. A. Taylor—*Trunk.*

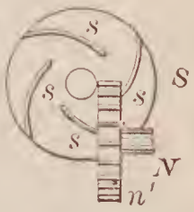


77130—E. J. Toof—*Try Square.*

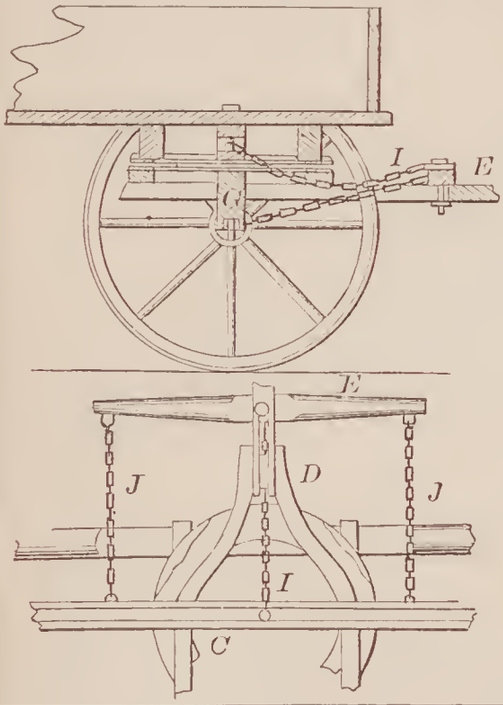


77128—A. Thompson—*Shingle Machine.*

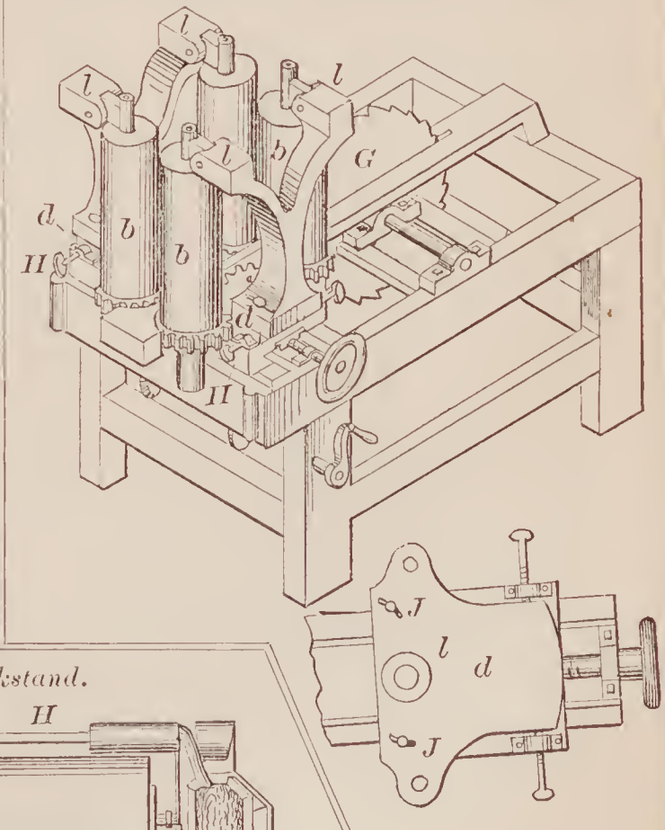




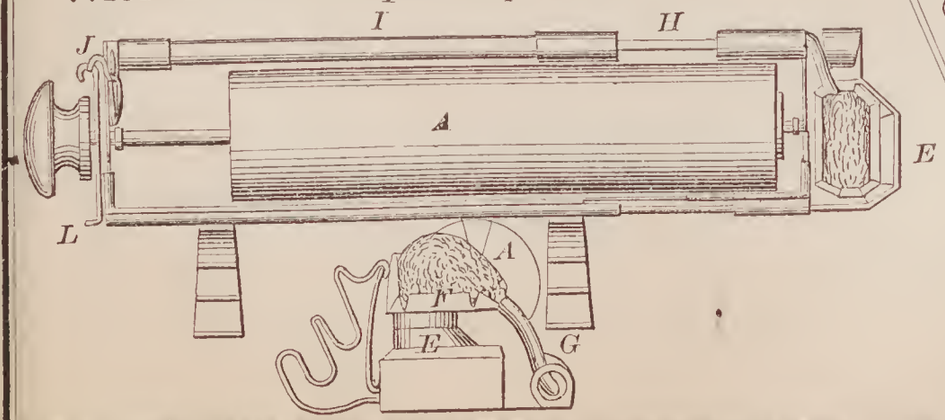
77132—I. & J. S. Van Pelt—*Carriage Coupling.*



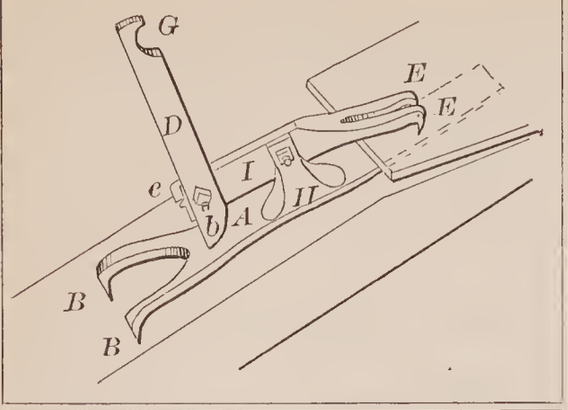
77129—Tompkins & Wright—*Saw Mill.*



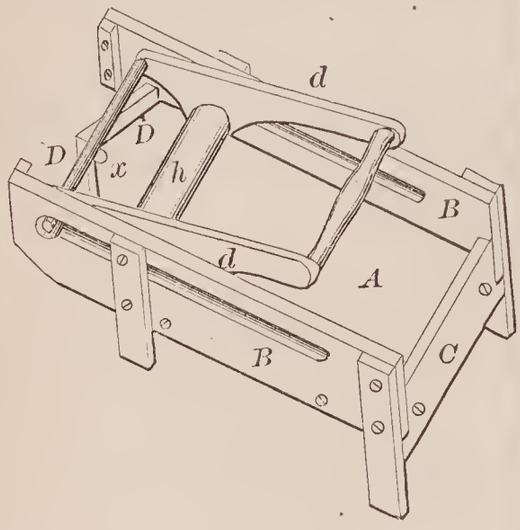
77131—E. J. Toof—*Paper Clamp and Inkstand.*



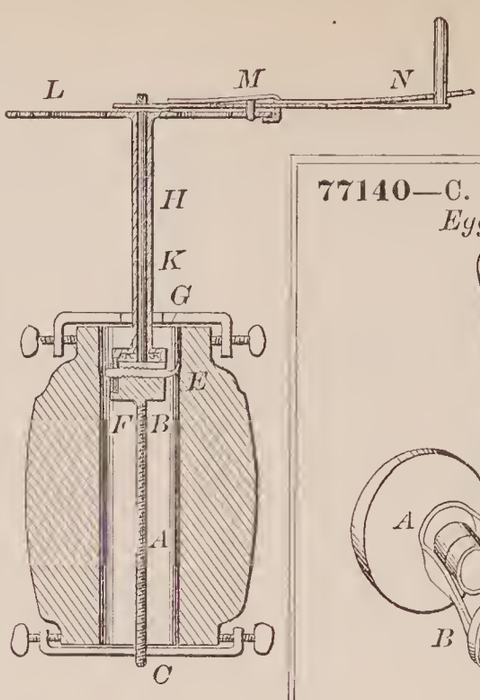
77133—S. D. Van Pelt—*Scaffold Bracket.*



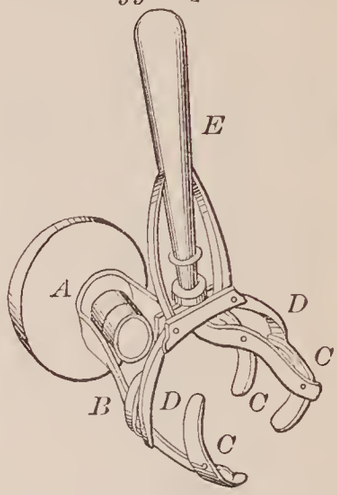
77135—E. P Walker—*Butter Worker.*



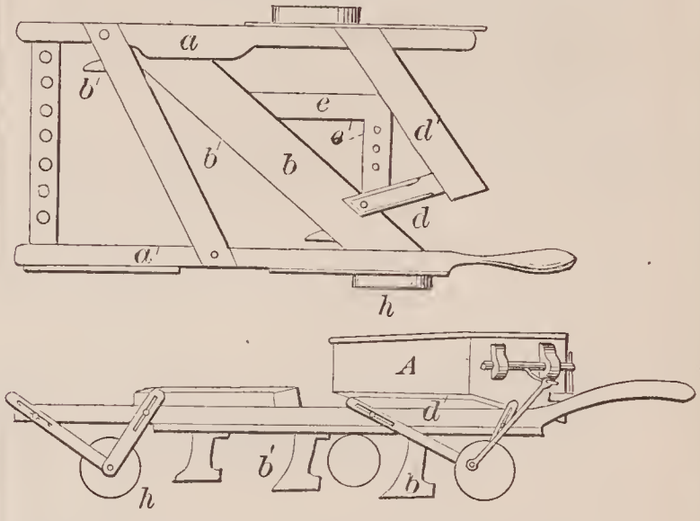
77137—J. W. Walters—*For Boring Hubs.*



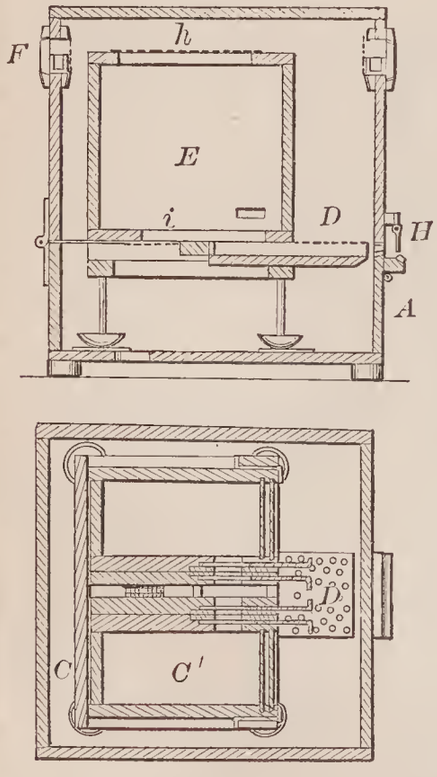
77140—C. D. P. Watters—*Egg Cup.*



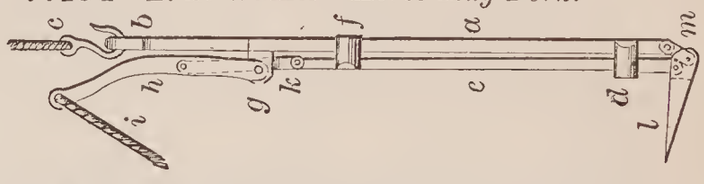
77141—J. B. Webster—*Seed Sower and Gang Plow.*



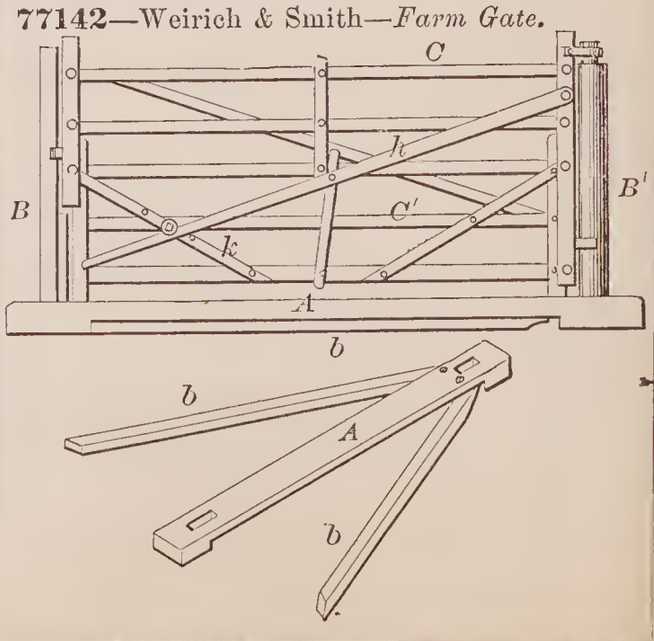
77139—J. Wash—*Beehive.*



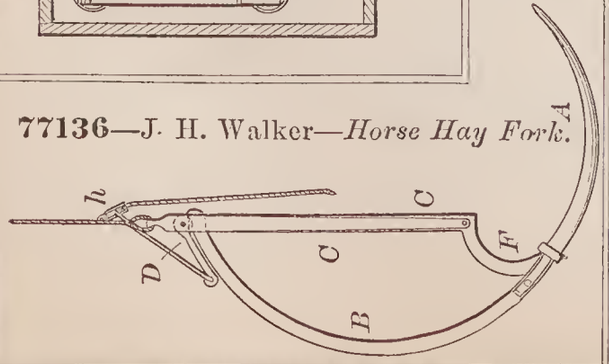
77134—E. L. Walker—*Horse Hay Fork.*



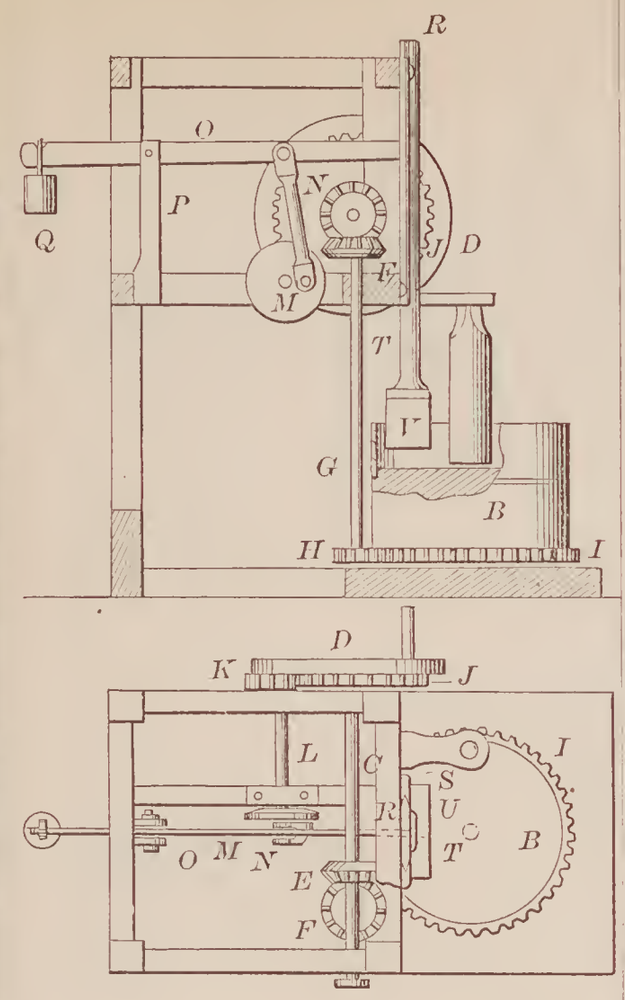
77142—Weirich & Smith—*Farm Gate.*



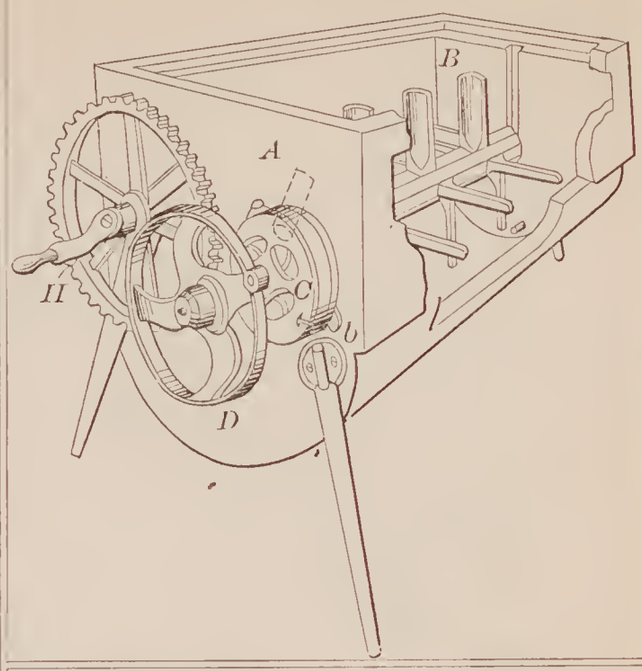
77136—J. H. Walker—*Horse Hay Fork.*



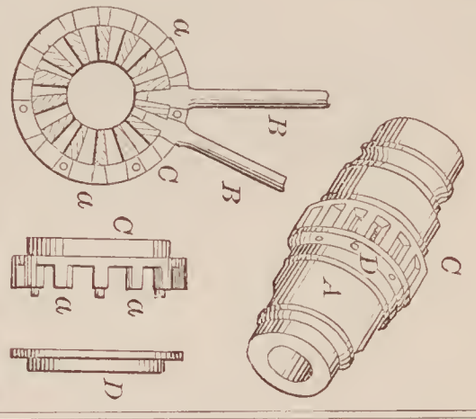
77143—C. Welte—*Meat Cutter.*



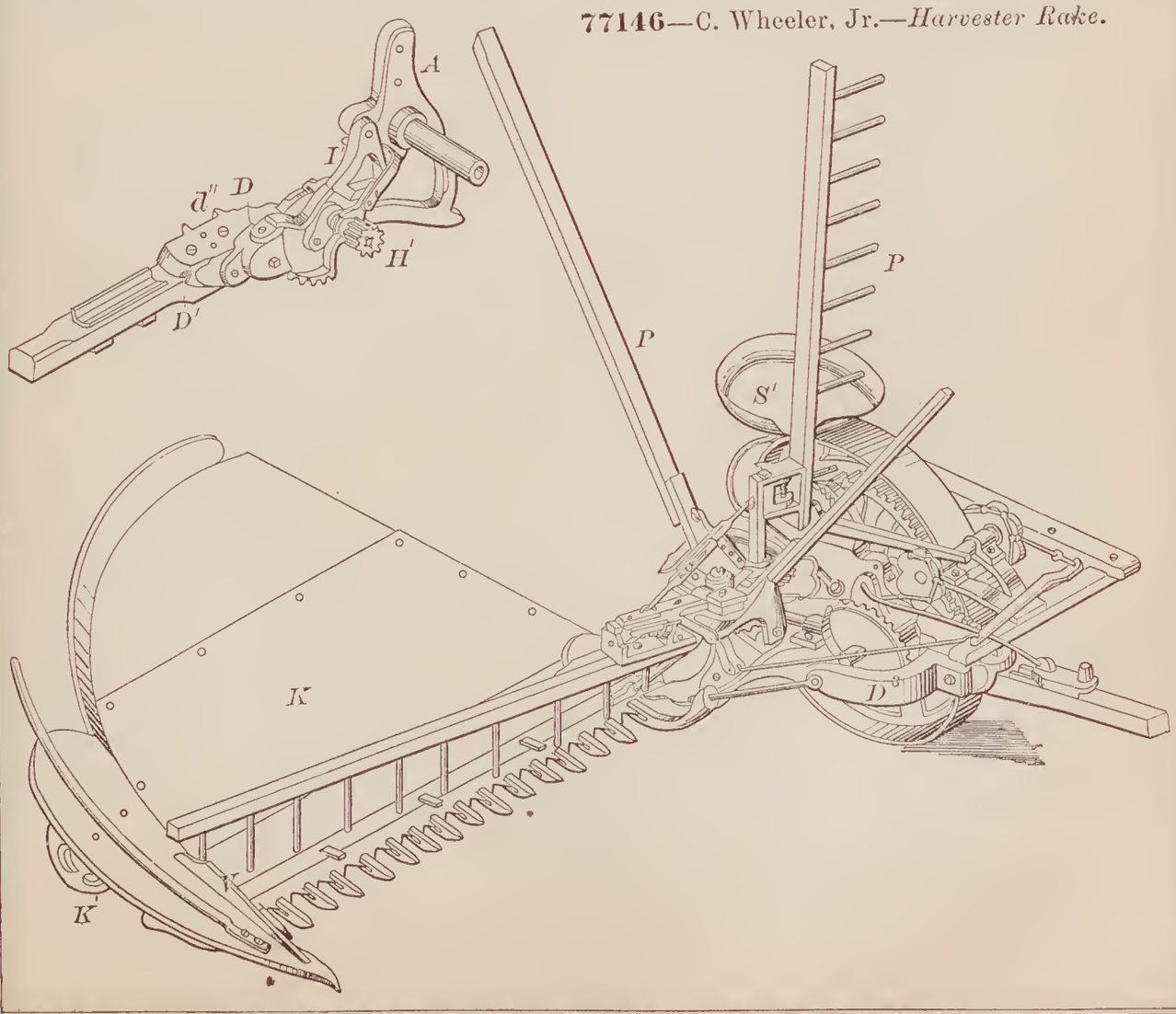
77144—A. Westcott—*Churn.*



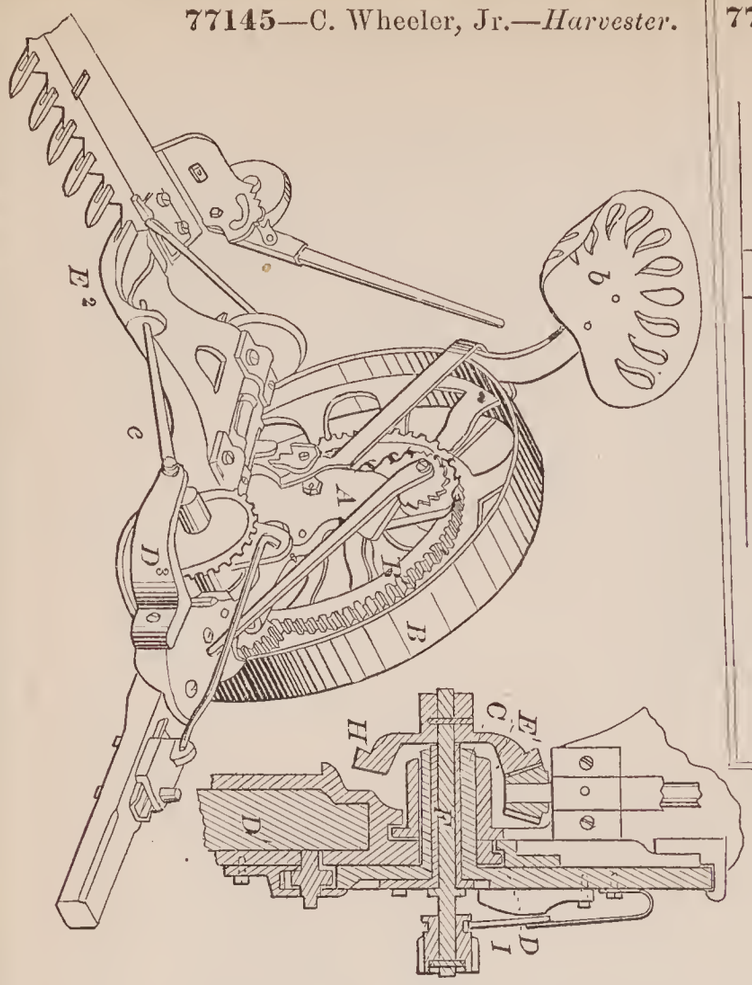
77147—M. Whelan—*Carriage Hub.*



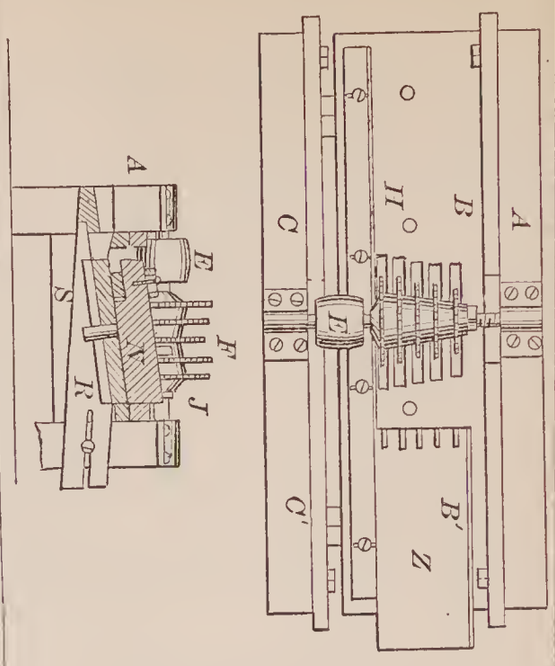
77146—C. Wheeler, Jr.—*Harvester Rake.*



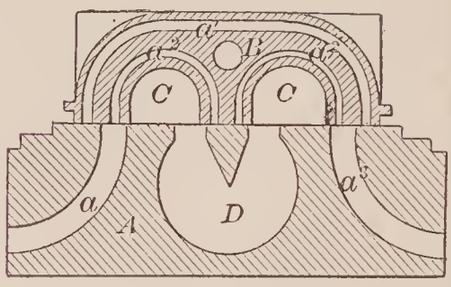
77145—C. Wheeler, Jr.—*Harvester.*



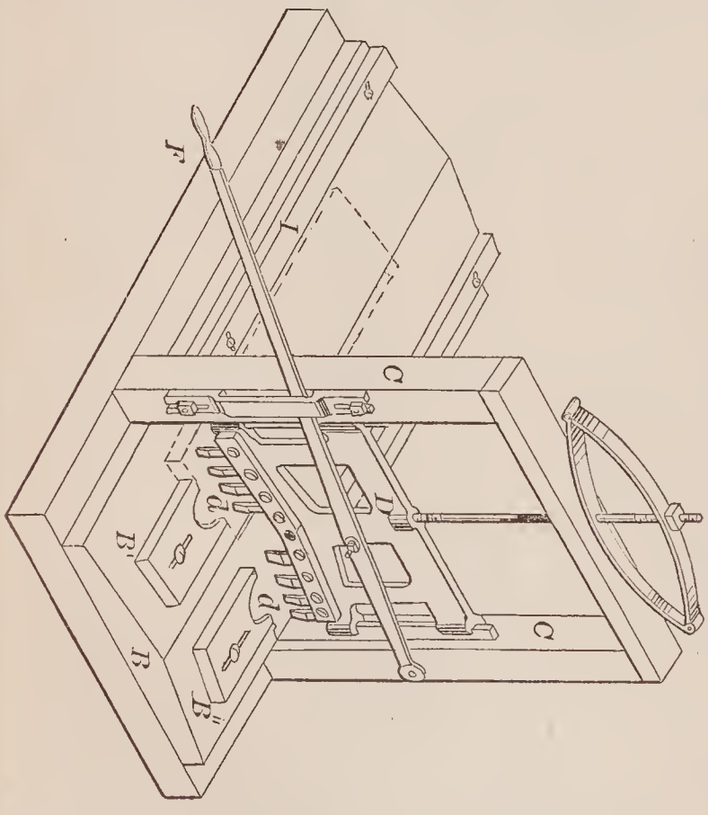
77148—T. D. White—*Dovetail Machine.*



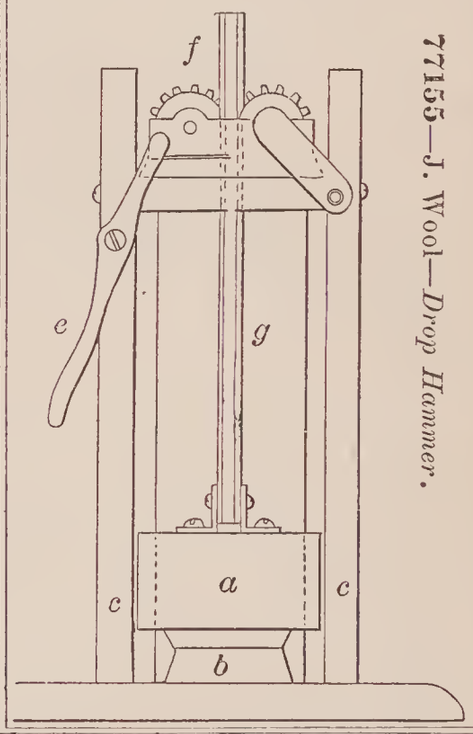
77152—W. Wilson—*Slide Valve.*



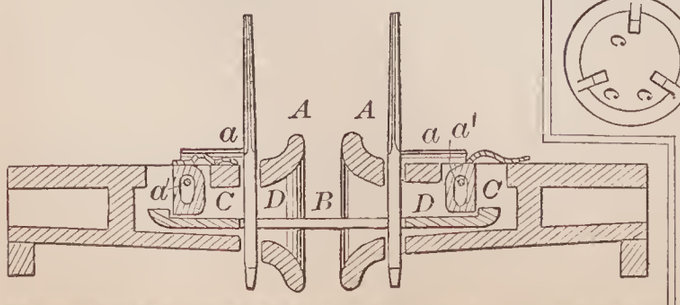
77149—T. D. White—*For Making Dovetail Mortises.*



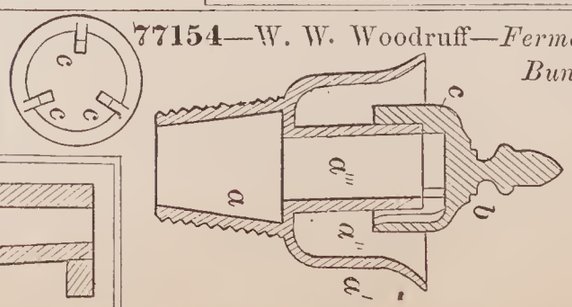
77155—J. Wool—*Drop Hammer.*



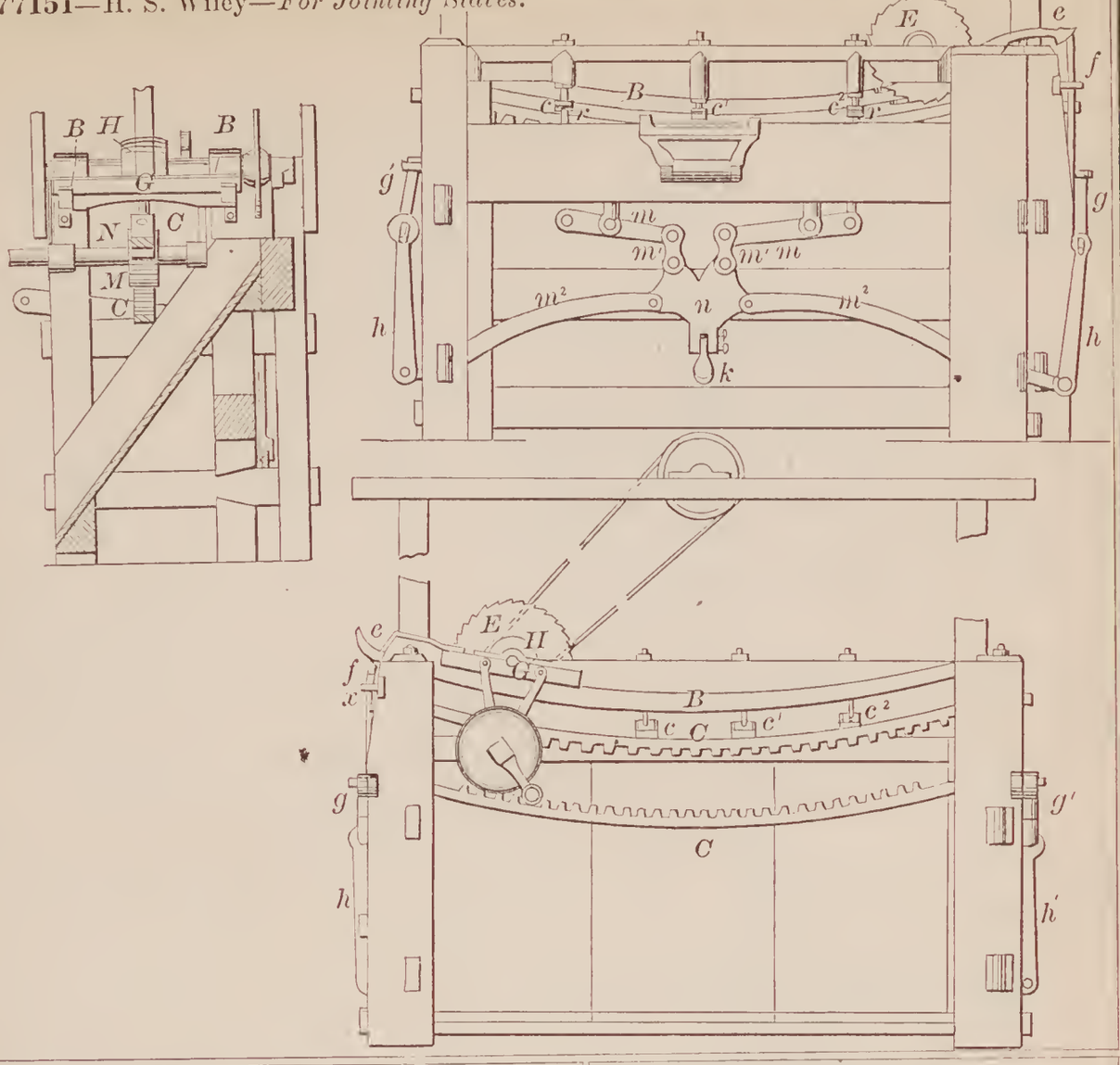
77150—Wickersham & Roush—*Car Coupling.*



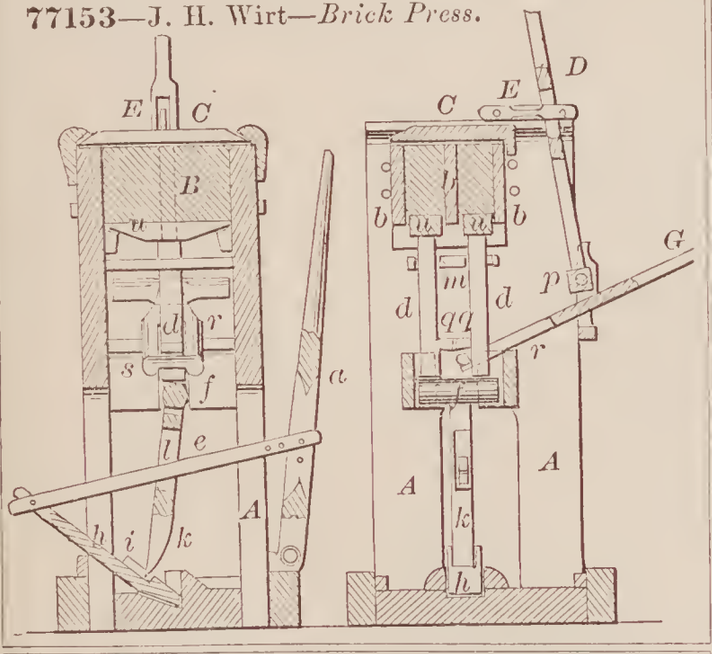
77154—W. W. Woodruff—*Fermentation Bung.*



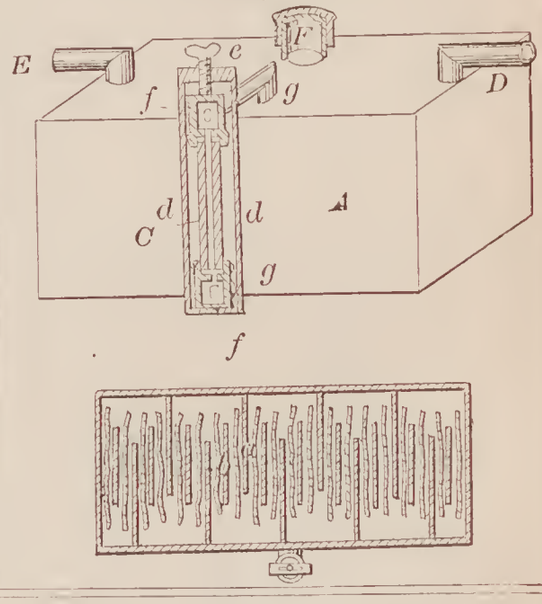
77151—H. S. Wiley—*For Jointing Staves.*



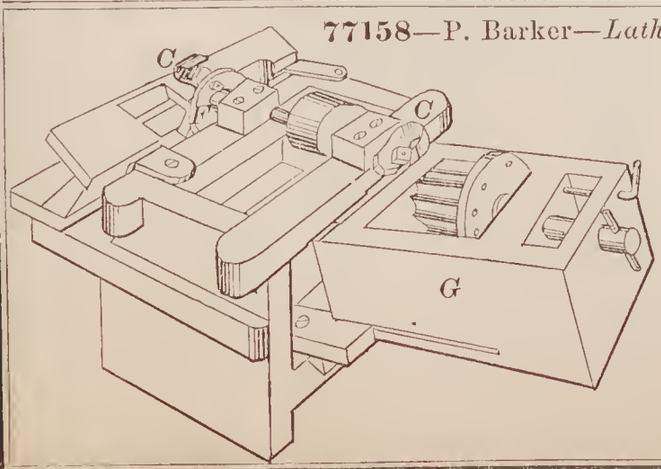
77153—J. H. Wirt—*Brick Press.*



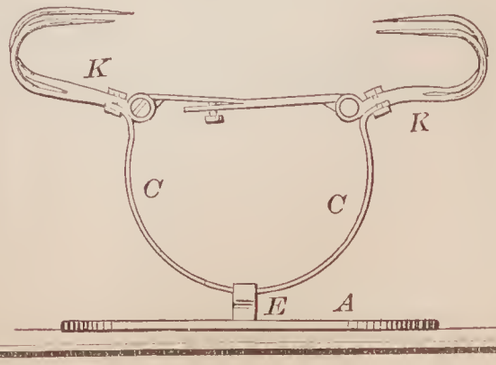
77156—W. H. Laubach—*For Carbonizing Gas.*



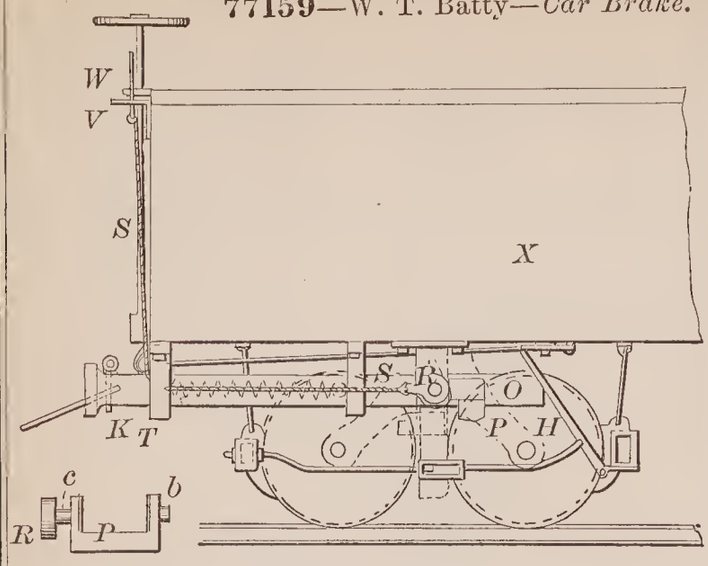
77158—P. Barker—*Lathe.*



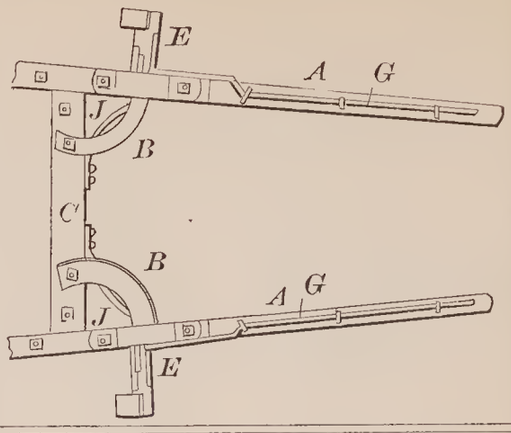
77157—A. J. Adams—*Animal Trap.*



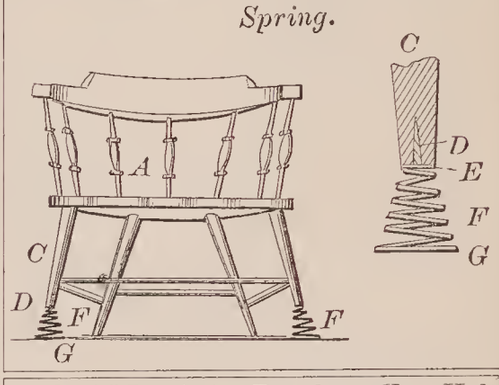
77159—W. T. Batty—*Car Brake.*



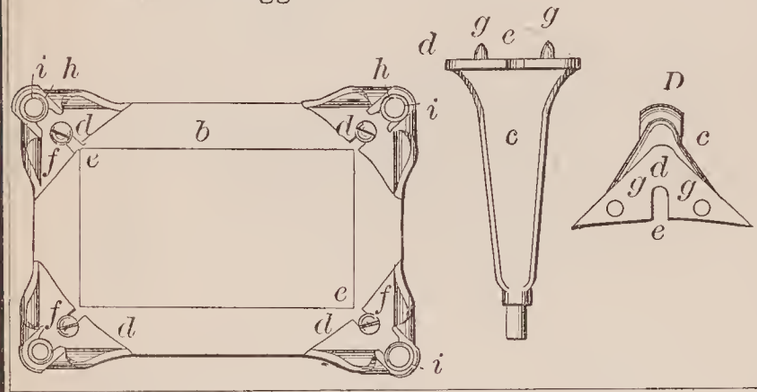
77162—J. A. Bower—*Carriage Lock.*



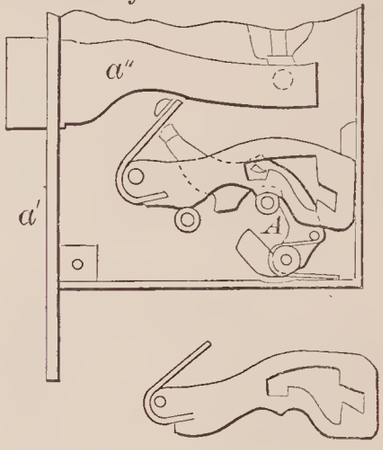
77161—A. M. Blake—*Chair Spring.*



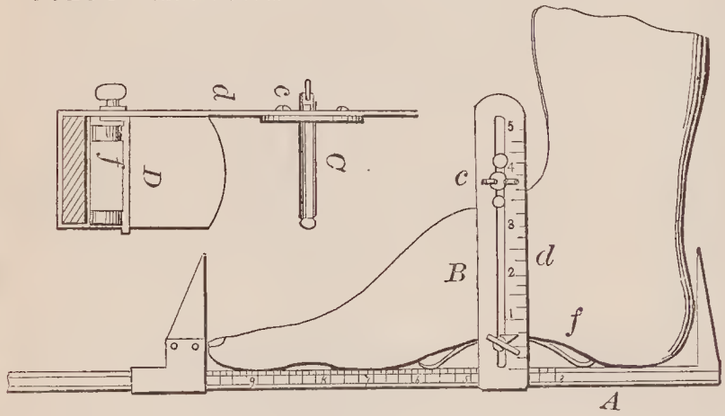
77164—J. Briggs—*Piano Forte Stool.*

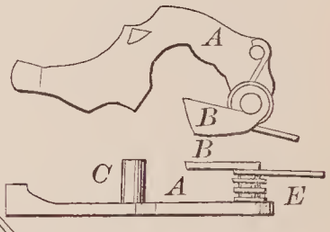


77165—A. T. Brooks—*Key Hole Guard for Door Locks.*

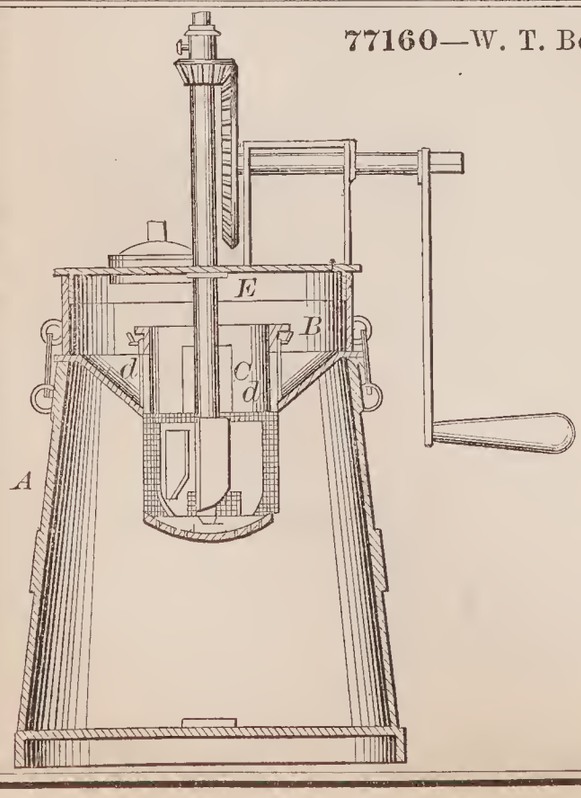


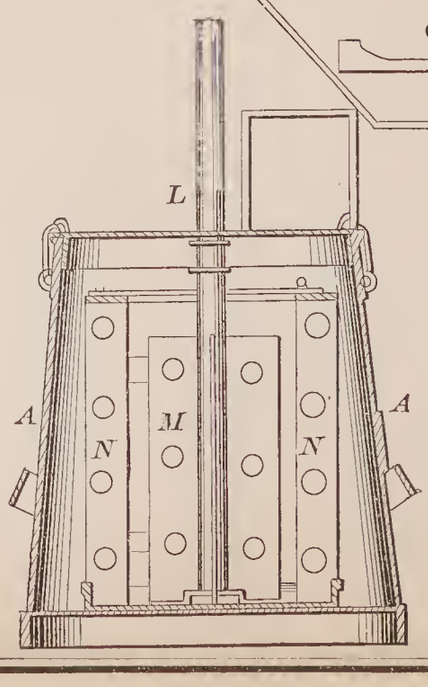
77166—L. Brooks—*Boot and Shoe Form.*



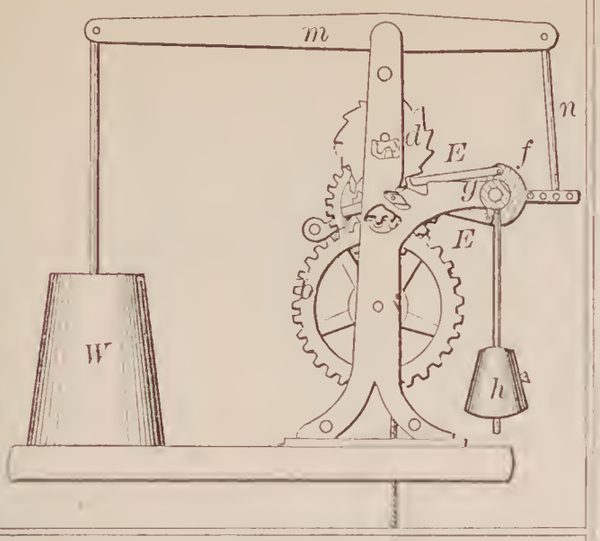


77160—W. T. Best—*Churn.*





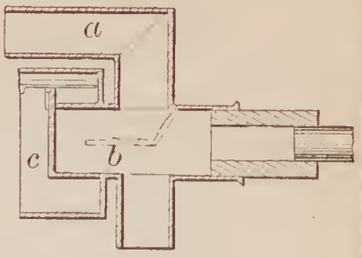
77167—C. P. Carter—*Mechanical Power.*

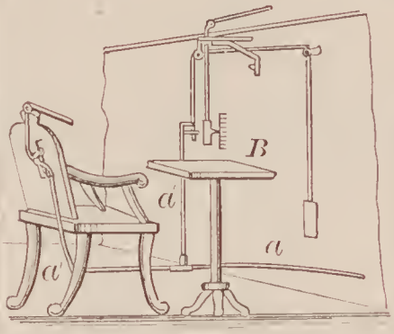


77168—W. Z. W. Chapman—*Inhaling Gas.*

Fig. 5

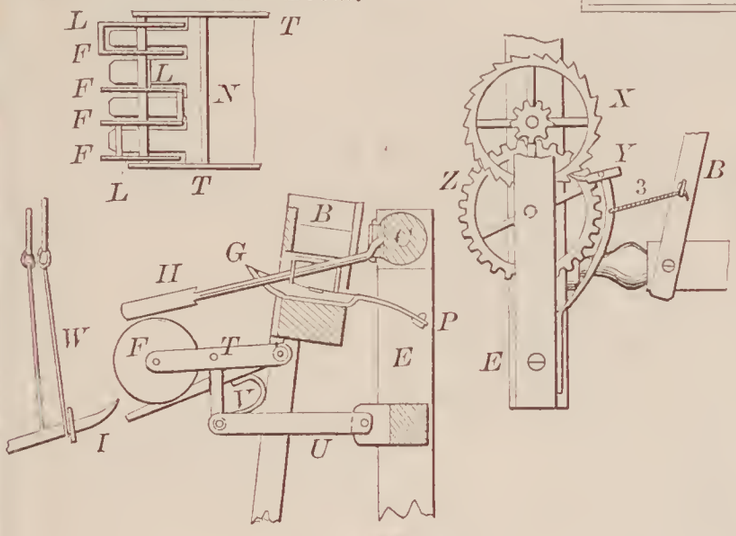
Fig. 3



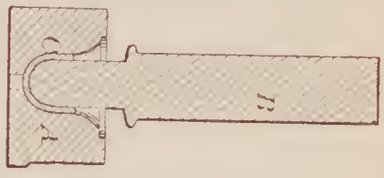


77173— F. & G. G. Crague—*Roller for Drawing Machines.*

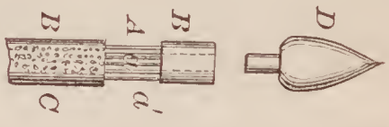
77169—G. Cliff—*Loom.*



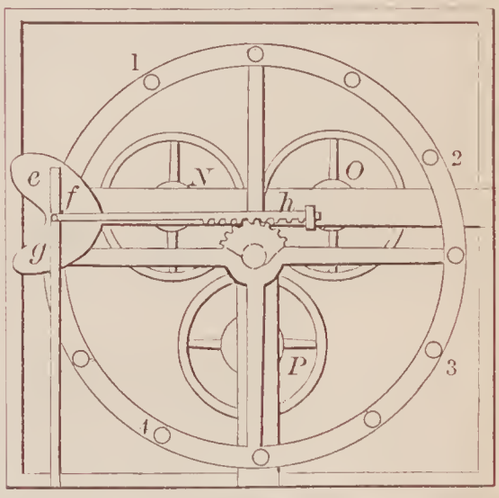
77170—J. H. Cole—*Ferrule Die.*

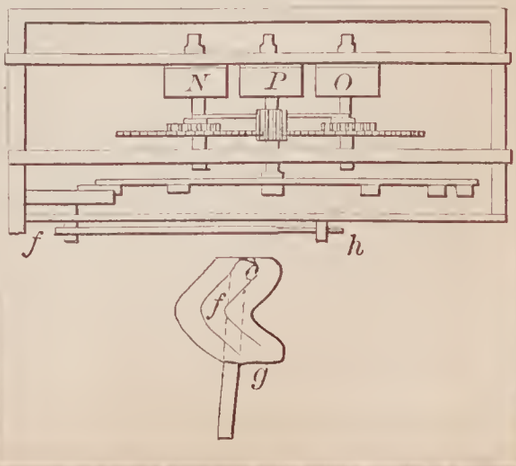


77171—T. B. Conklin—*Drive Well.*

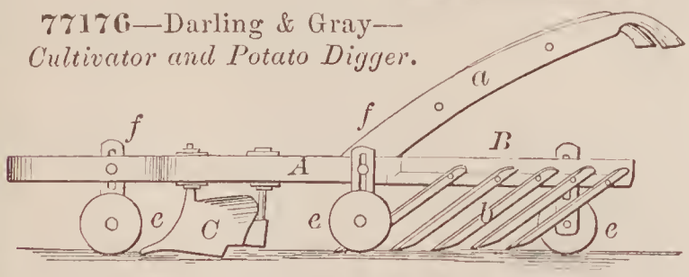


77172—Corbit, Orput & Case—*Churn.*



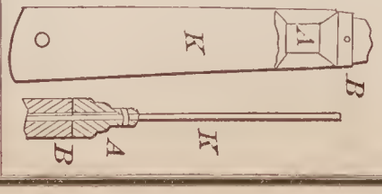


77176—Darling & Gray—*Cultivator and Potato Digger.*

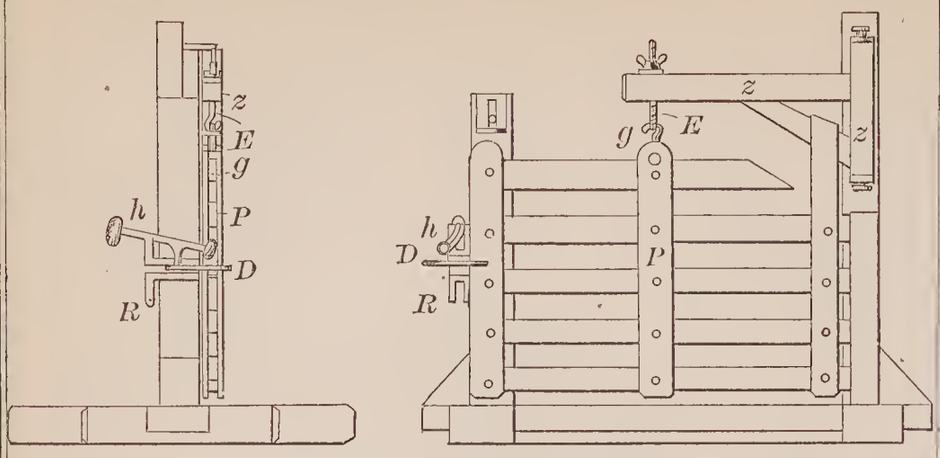


77174—C. De Hass—*Roofing Buildings.*

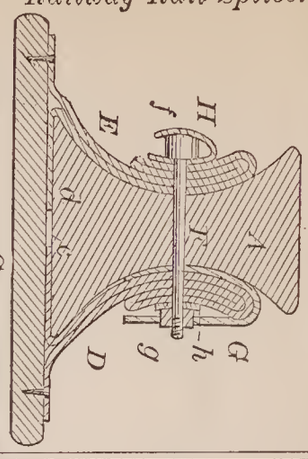
77175—R. E. Curtis—*Cutlery.*



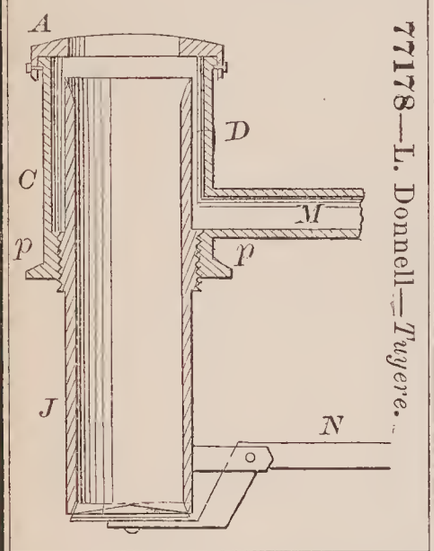
77174—J. Curtis—*Farm Gate.*



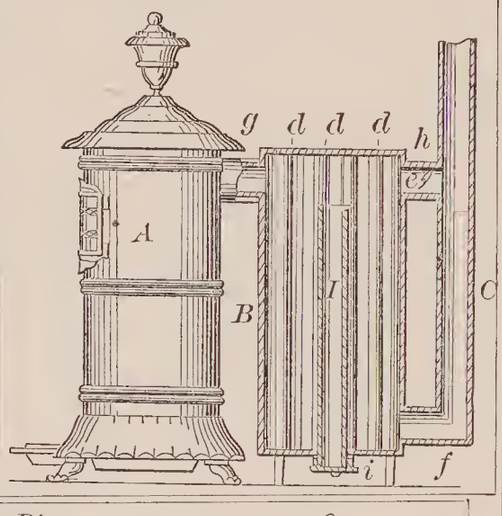
77180—R. Elliott—*Railway Rail Splice.*



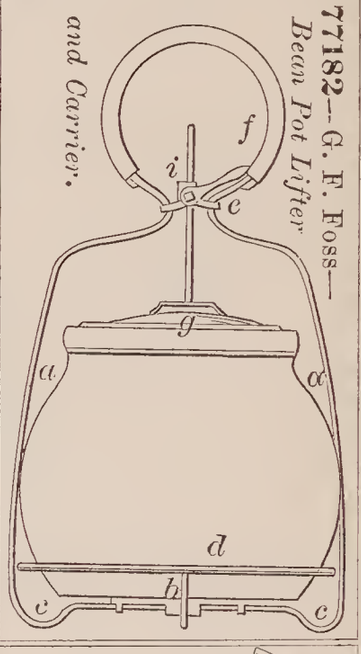
77178—L. Donnell—*Tuyere.*



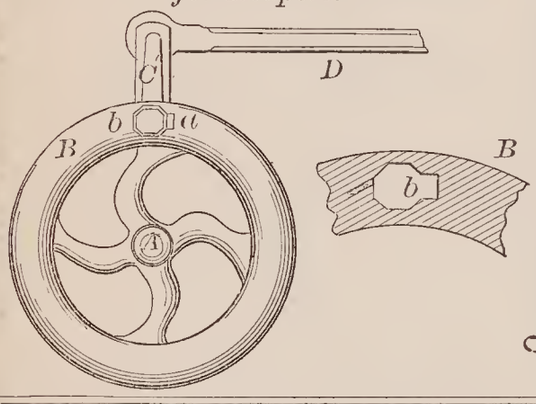
77179—N. Downes—*Stove Drum.*



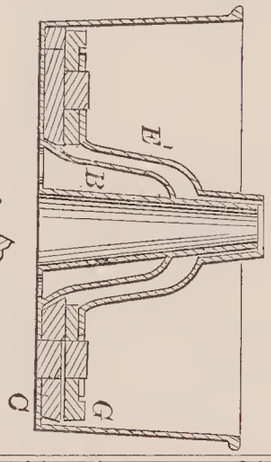
77182—G. F. Foss—*Bean Pot Lifter and Carrier.*



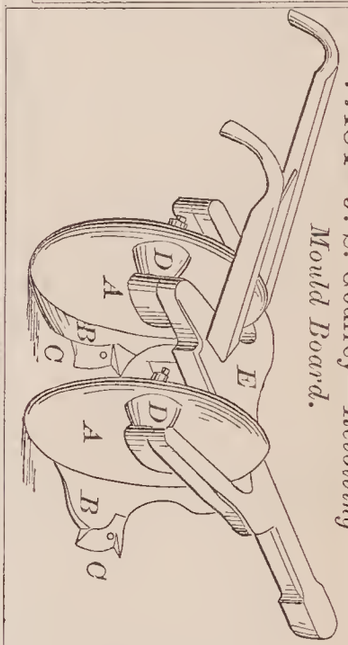
77181—J. H. Elward—*Wrist Pin for Reapers.*



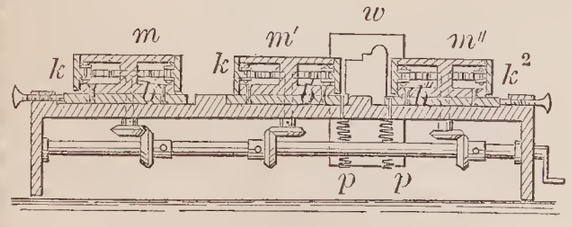
77183—S. Fountain—*Amalgamator.*



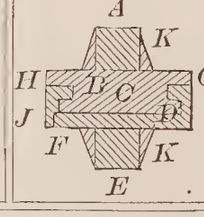
77184—J. S. Godfrey—*Revolving Mould Board.*



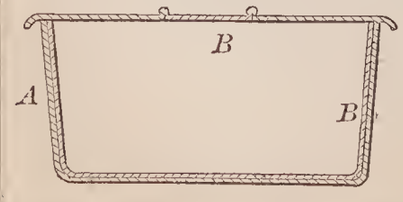
77187—H. R. Hall—*Enameling Machine.*



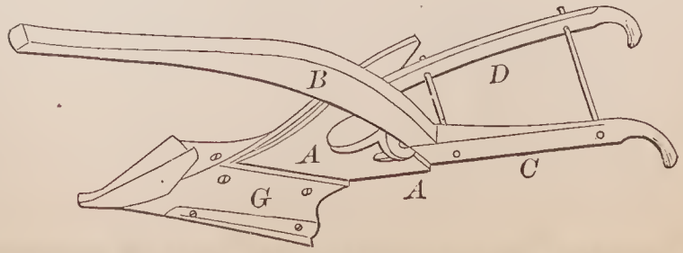
77185—Gray & Porter—*Attaching Axles to Vehicles.*



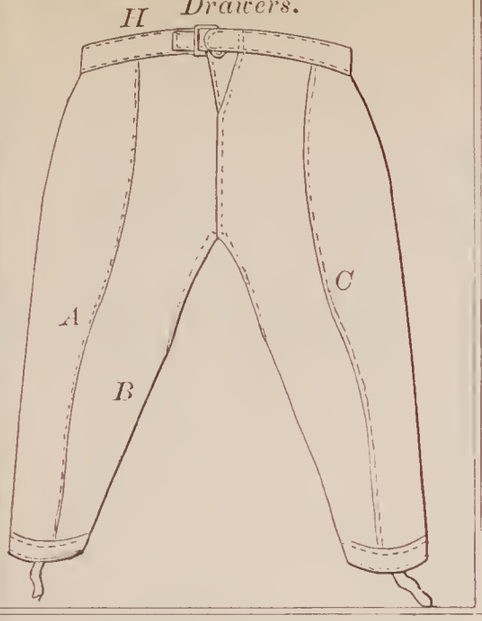
77186—C. O. Greene—*Preventing Corrosion of Cast Iron Vessels.*



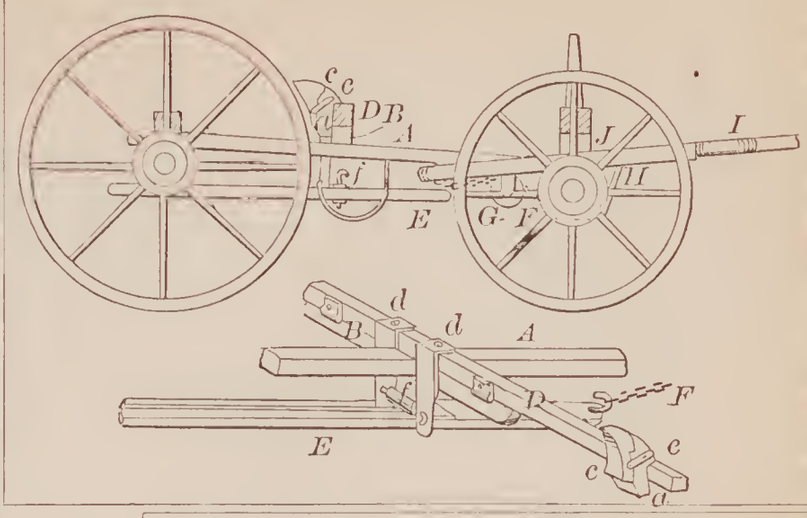
77188—J. S. Hall—*Plow.*



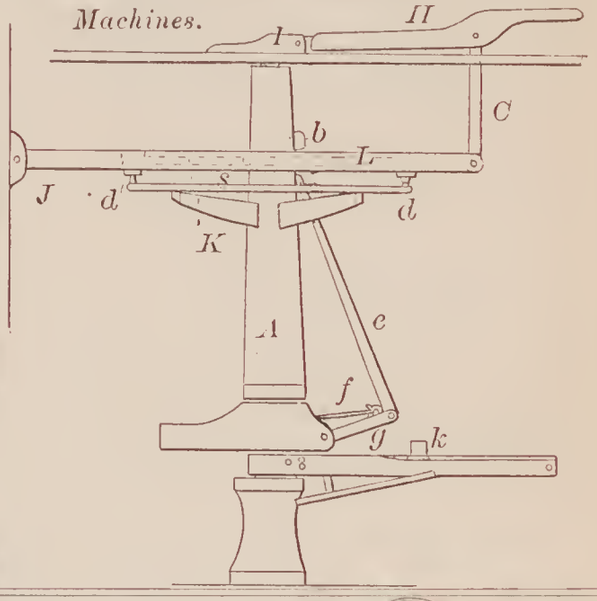
77189—H. Heath—*Cloth Drawers.*



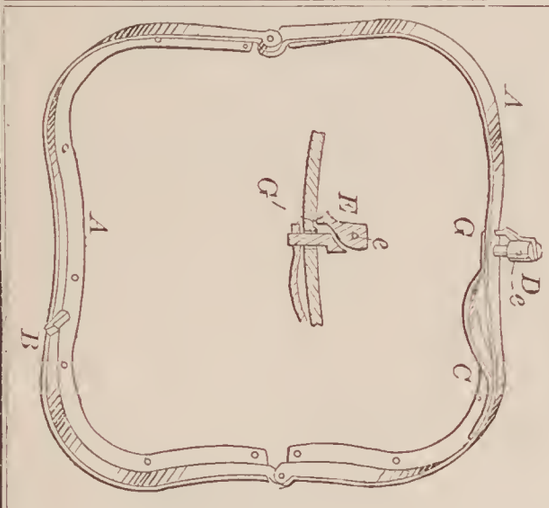
77190—S. S. Henderson—*Wagon Brake.*



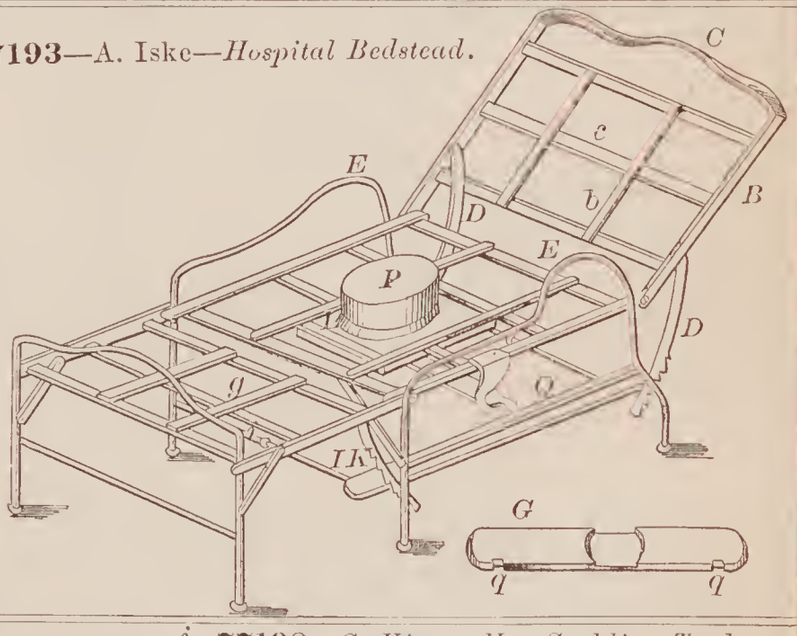
77191—C. S. Houck—*Capstan for Hoisting Machines.*



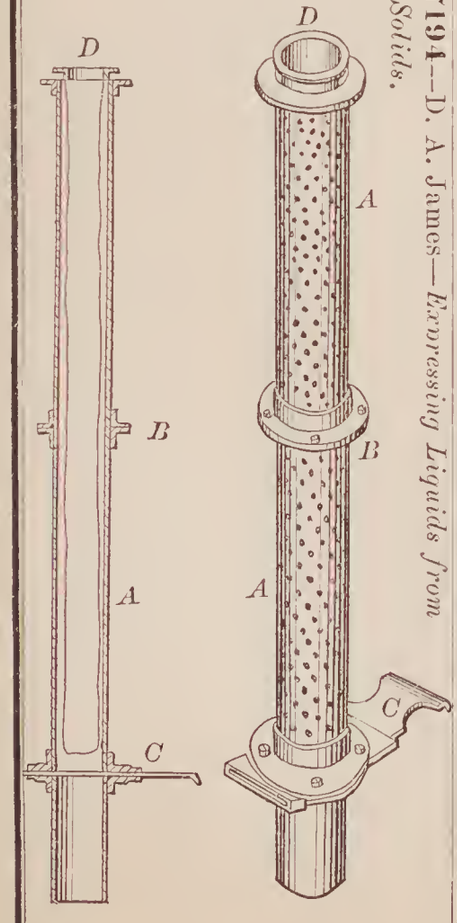
77192—J. C. Iden—*Safety Pocket.*



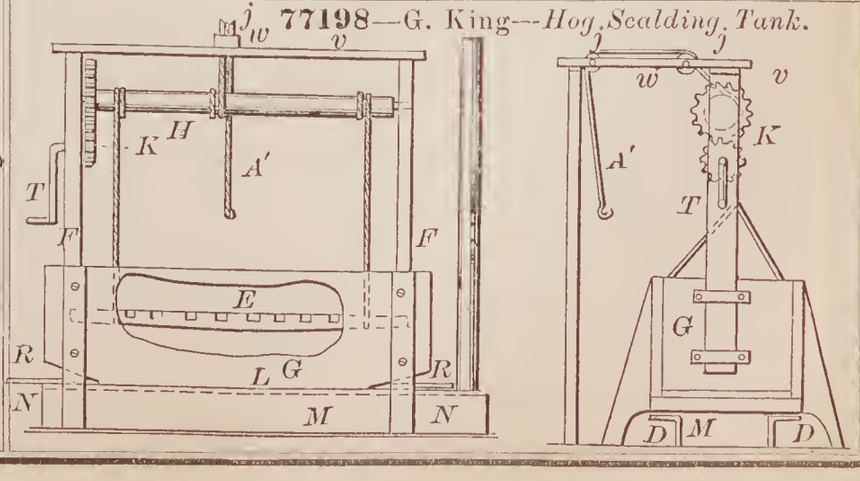
77193—A. Iske—*Hospital Bedstead.*



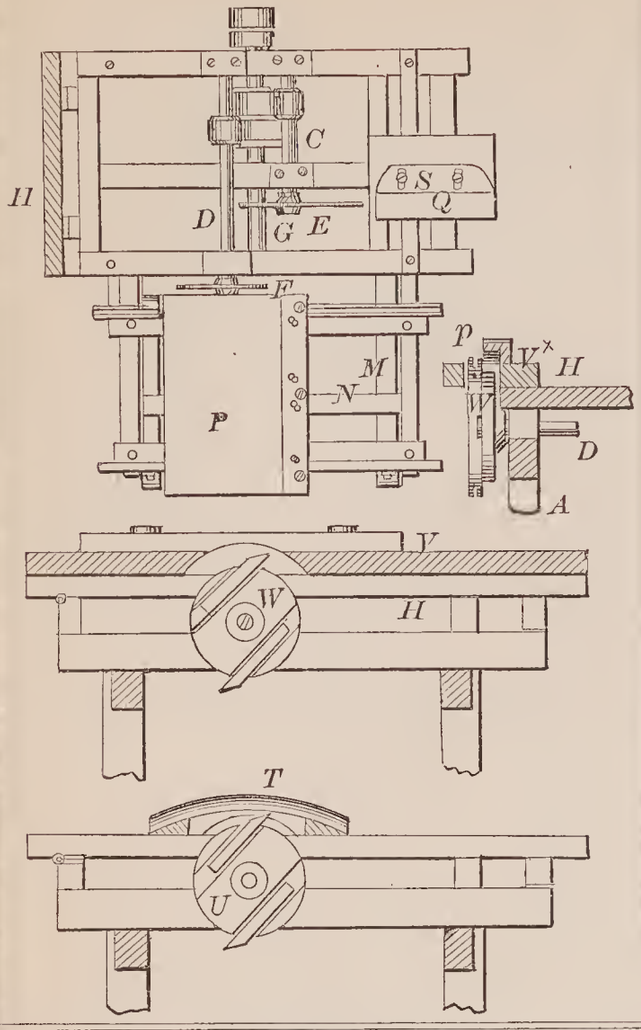
77194—D. A. James—*Expressing Liquids from Solids.*



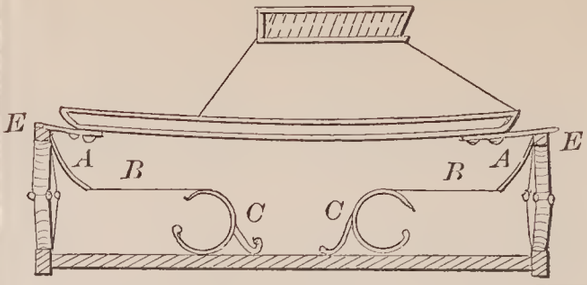
77198—G. King—*Hog Scalding Tank.*



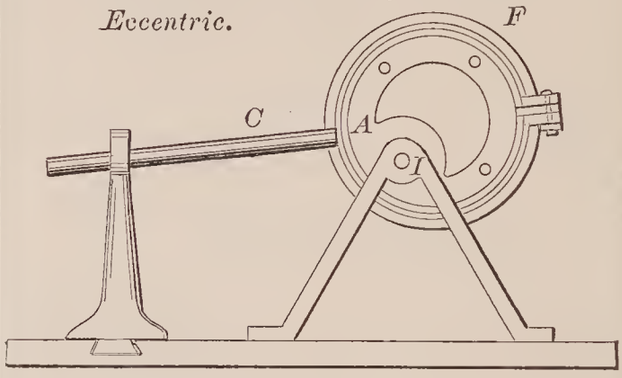
77195—T. Jenkyn—*Sawing Machine.*



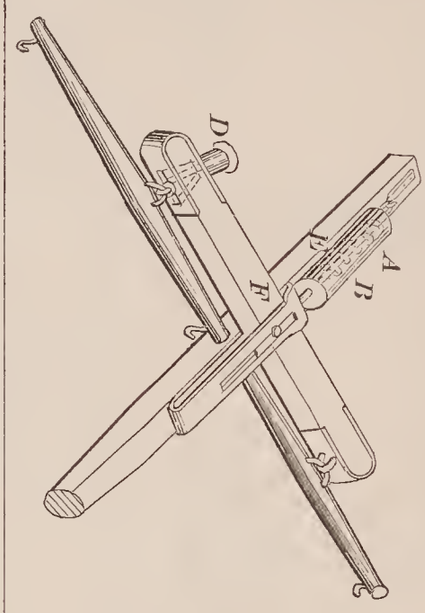
77196—I. D. Johnson—*Carriage Check Brace.*



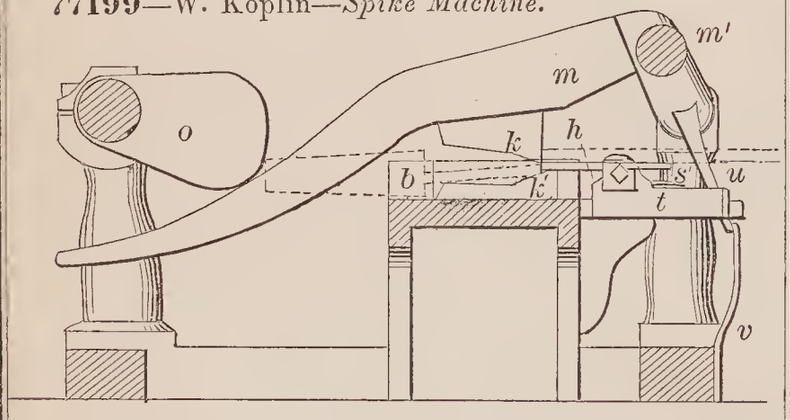
77197—Keeler & Avery—*Variable Eccentric.*



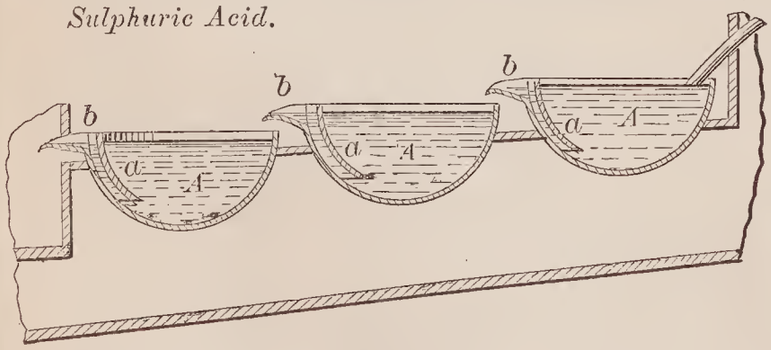
77200—Lafever & Laraway—*Equalizer.*



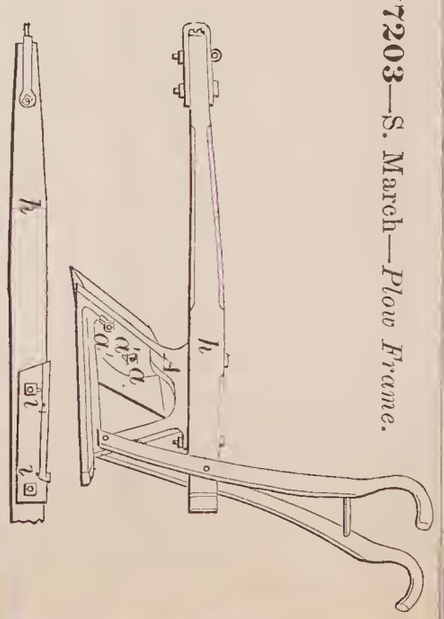
77199—W. Koplin—*Spike Machine.*



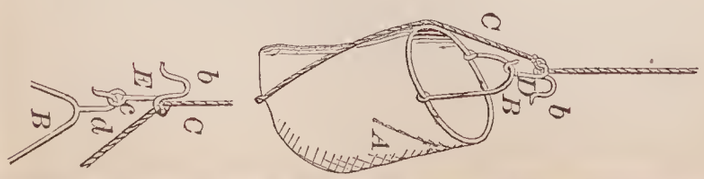
77202—Marcelin & Saunders—*Pan for Concentrating Sulphuric Acid.*



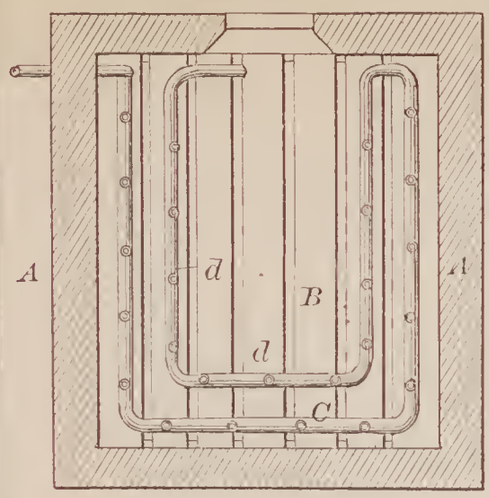
77203—S. March—*Plow Frame.*



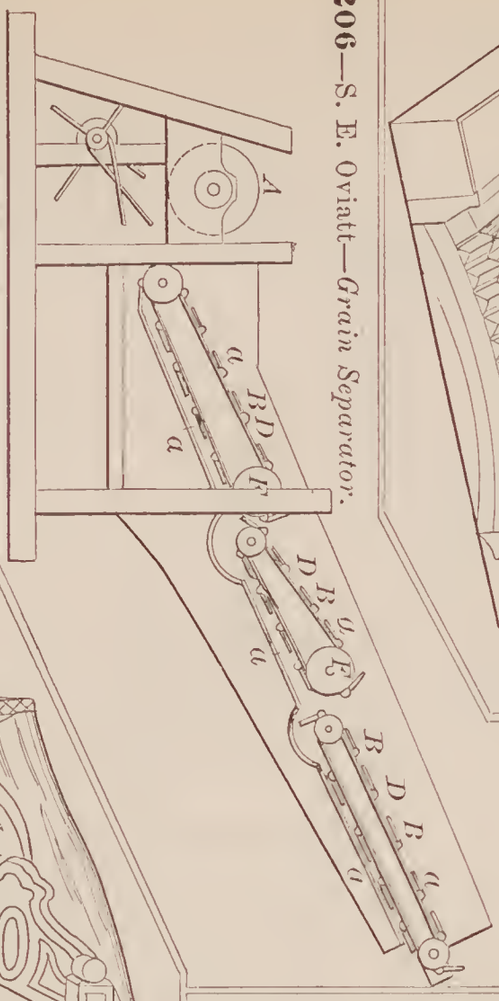
77201—W. I. Ludlow—*Fruit Bag.*



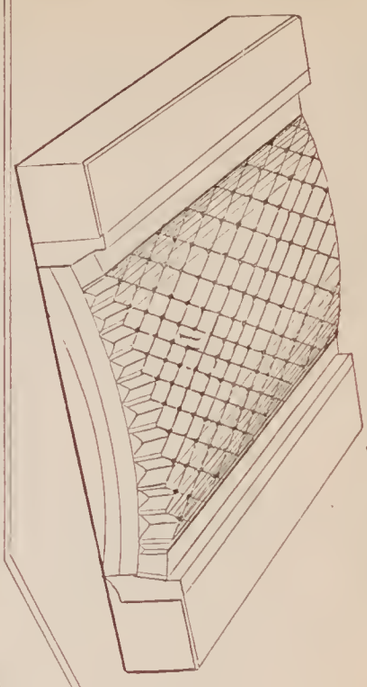
77205—F. I. Norton—*Drying Apparatus.*



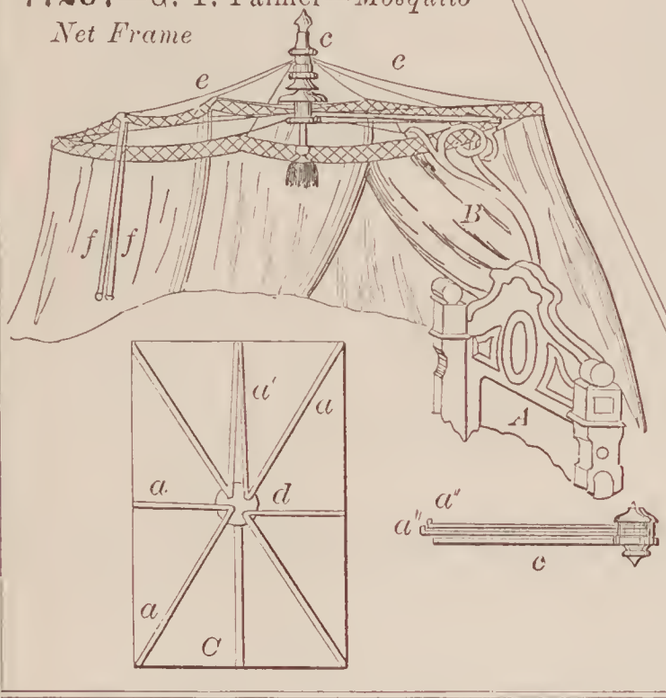
77206—S. E. Oviatt—*Grain Separator.*



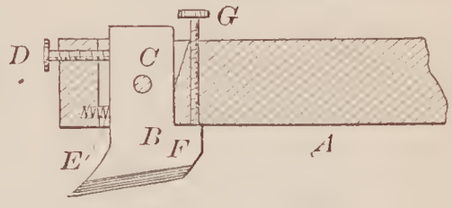
77208—J. T. Parson—*Roadway Pavement.*



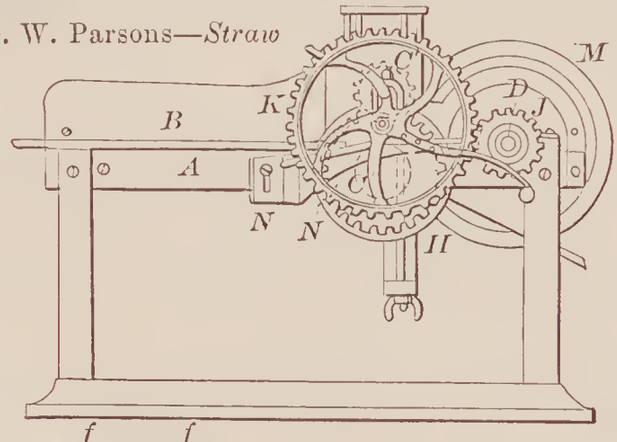
77207—G. T. Palmer—*Mosquito Net Frame*

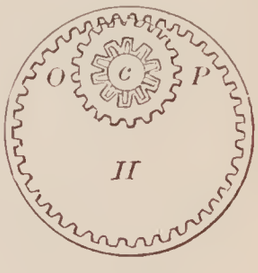


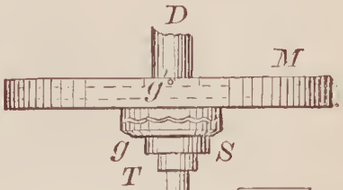
77211—E. T. Prindle—*Cutting Tool for Planing and Milling Machines.*

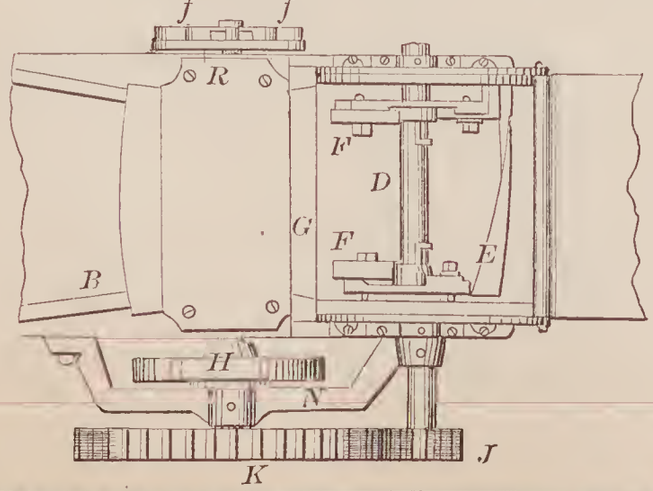


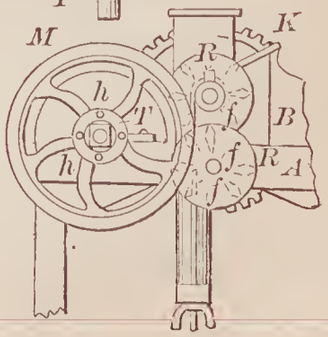
77209—G. W. Parsons—*Straw Cutter.*



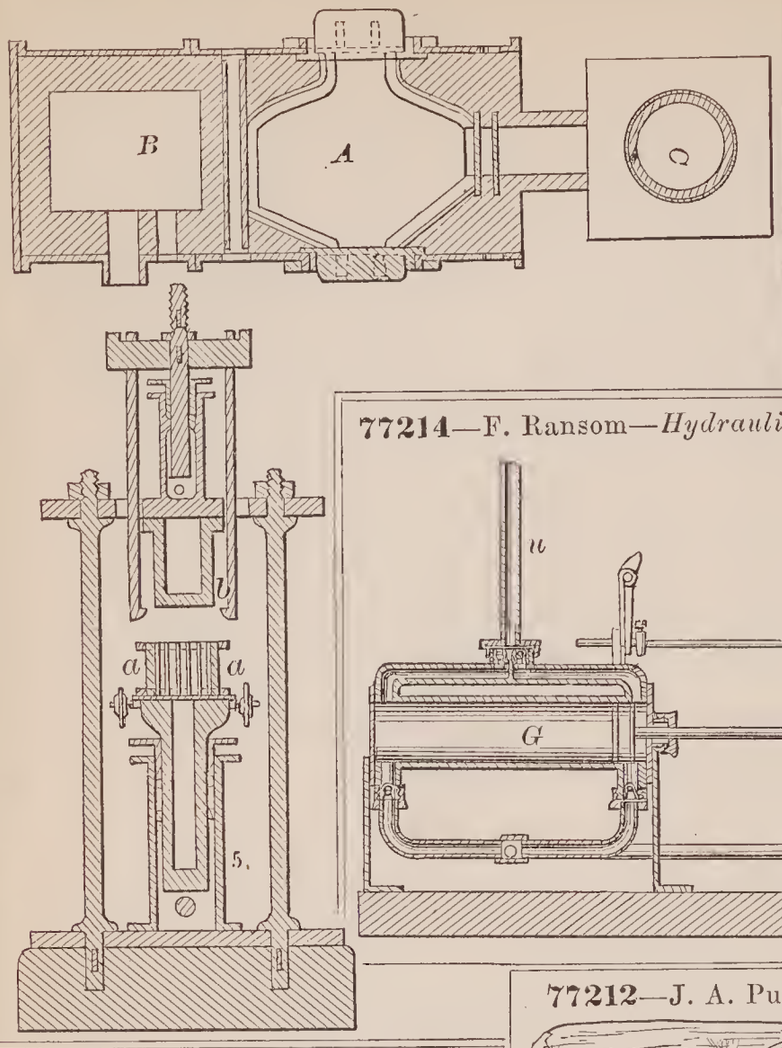




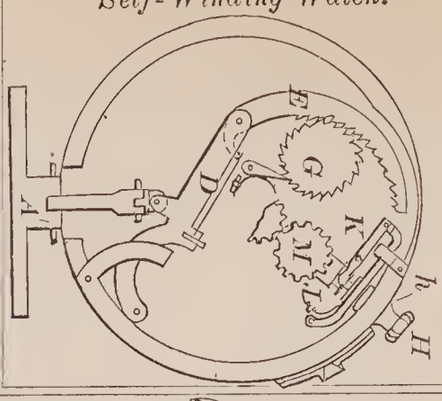




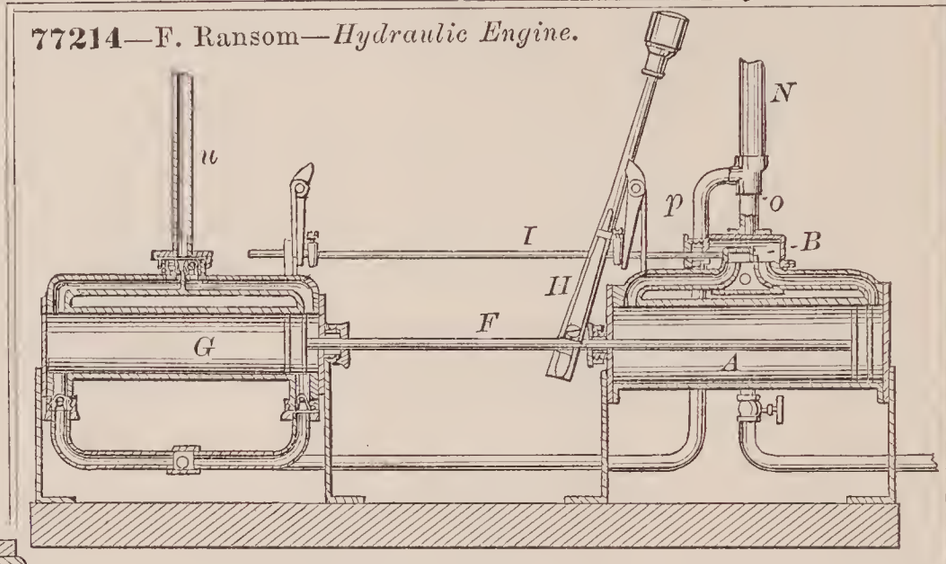
77210—J. Player—*Manufacture of Malleable Iron.*



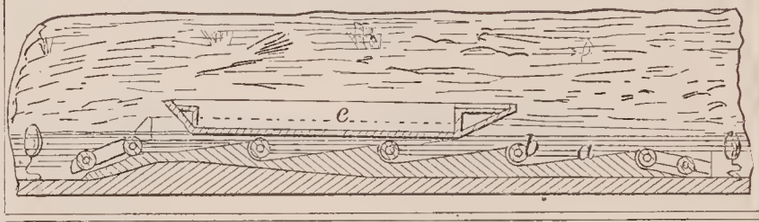
77213—U. H. Ramuz—*Self-Winding Watch.*



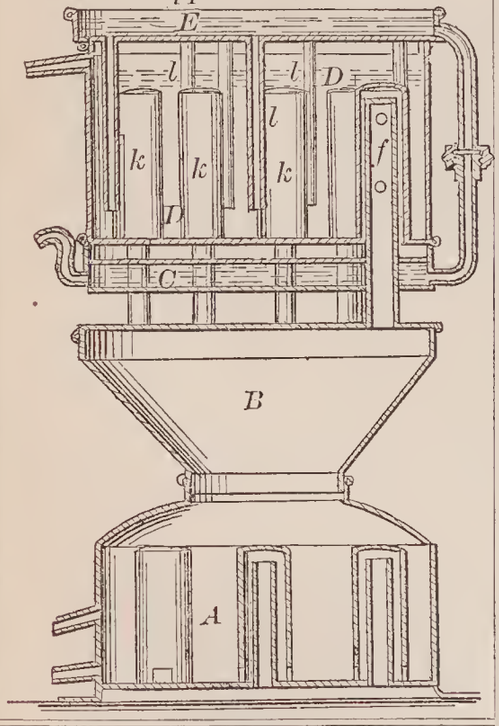
77214—F. Ransom—*Hydraulic Engine.*



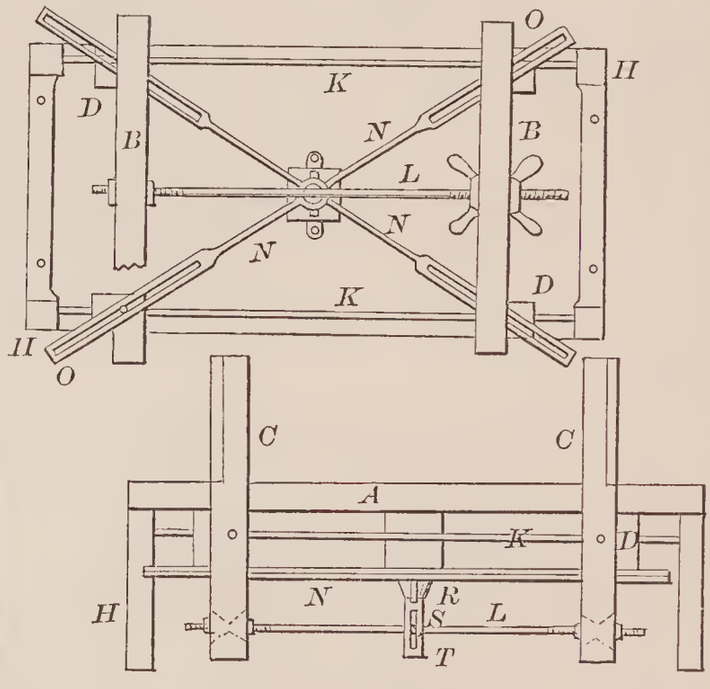
77212—J. A. Putnam—*Chute for River Navigation.*



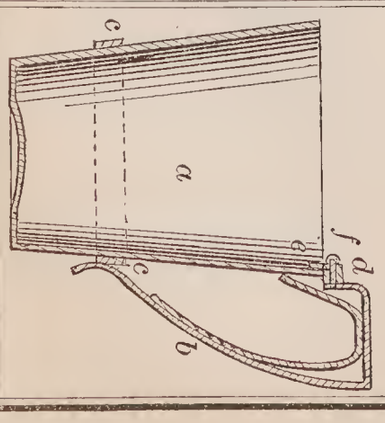
77216—J. Riley—*Distilling Apparatus.*



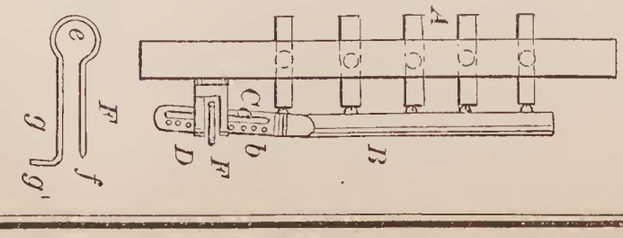
77217—C. Robinson—*Mitre Box.*



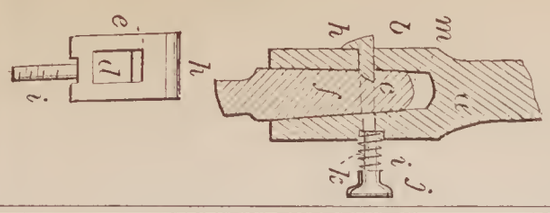
77215—C. Reistle—*Tumbler Holder.*



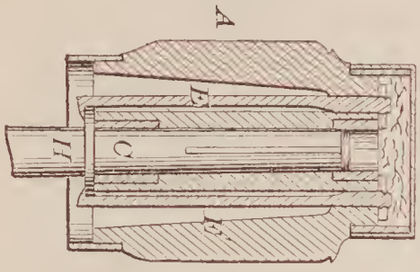
77218—T. F. Rockwell—*Blind Slat Fastening.*



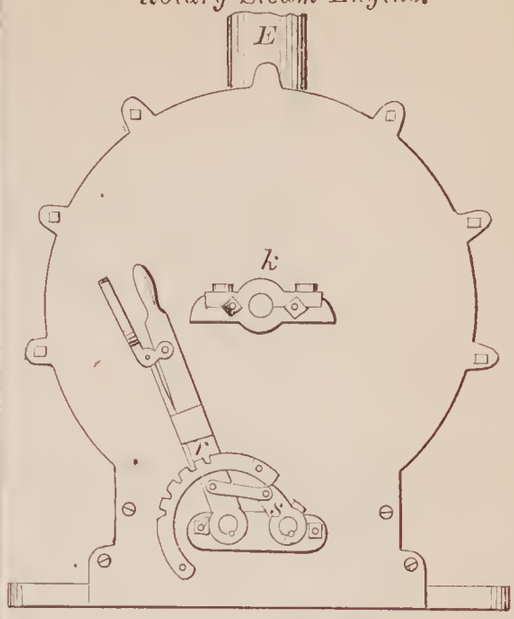
77219—S. C. Rundlett—*Bit Brace.*



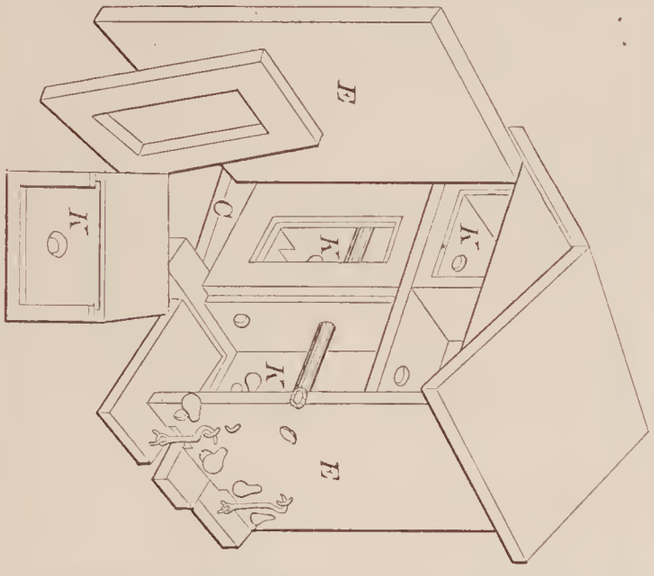
77220—G. W. Sawin—*Attaching Wheels to Axles.*

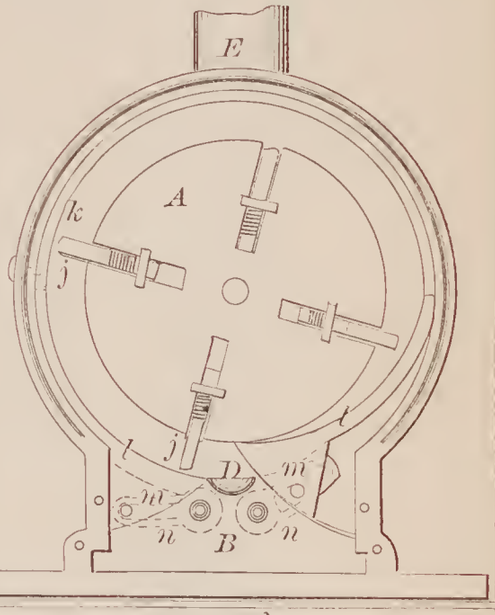


77221—Shellenback & Augspurger—*Rotary Steam Engine.*

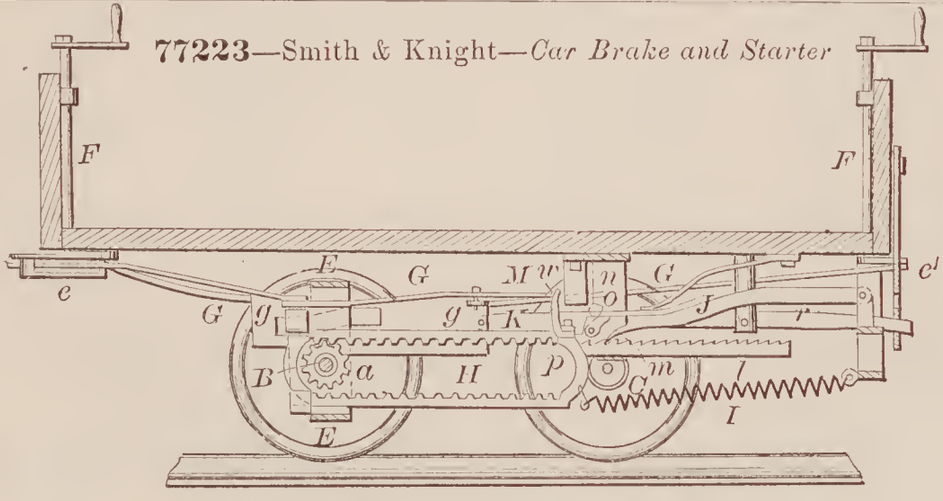


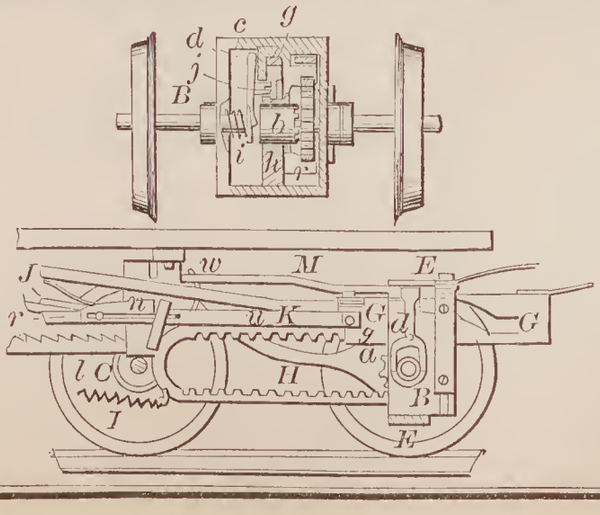
77222—W. M. Simpson—*Bee House and Hive.*



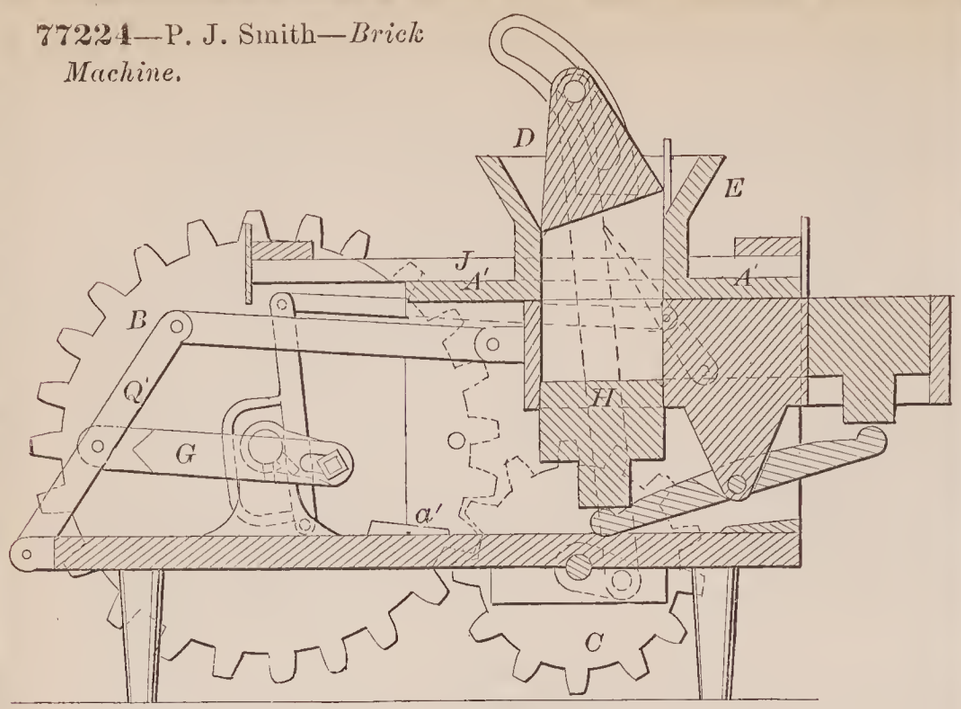


77223—Smith & Knight—*Car Brake and Starter*



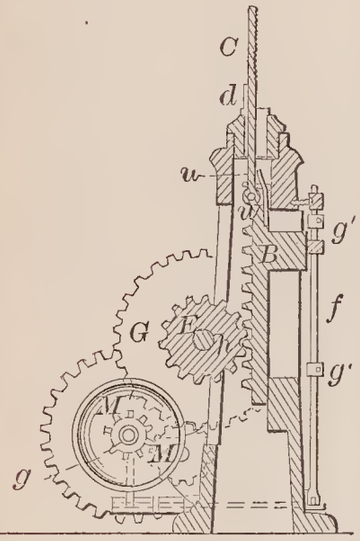


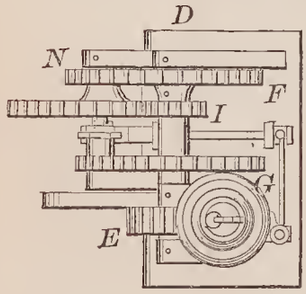
77224—P. J. Smith—*Brick Machine.*

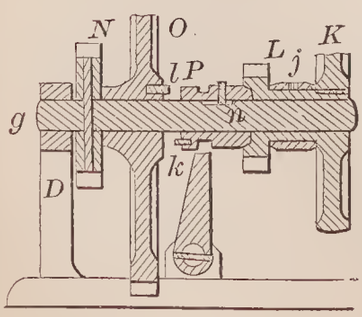


77228—G. A. Watkins—*Chair Seat.*

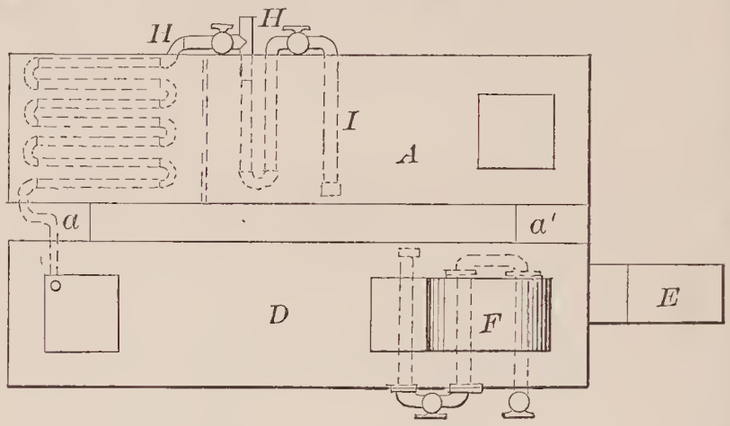
77225—Smith & Eddy—*For Cutting Key Seats*

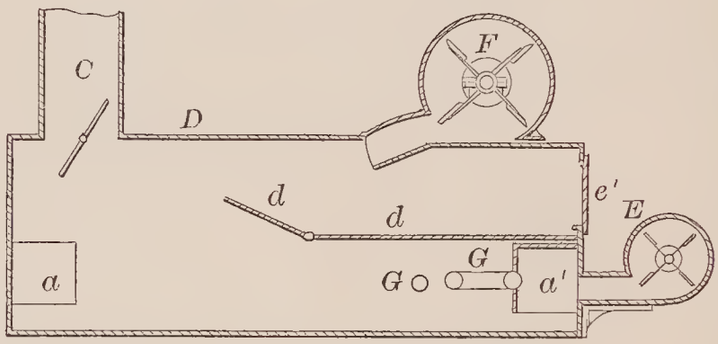






77226—D. E. Somes—*For Consuming Smoke and Gas.*





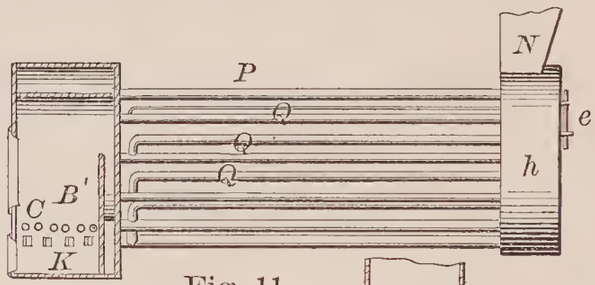
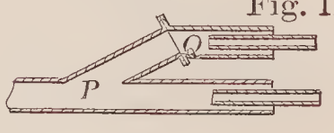


Fig. 11



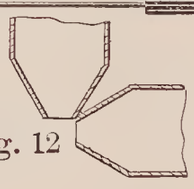
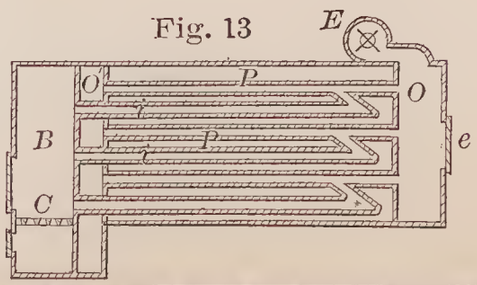
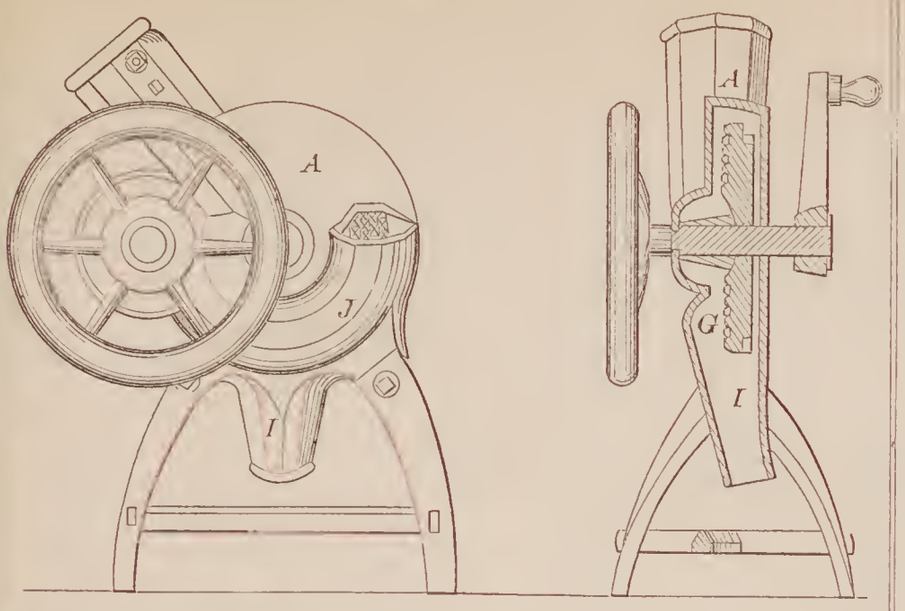


Fig. 12

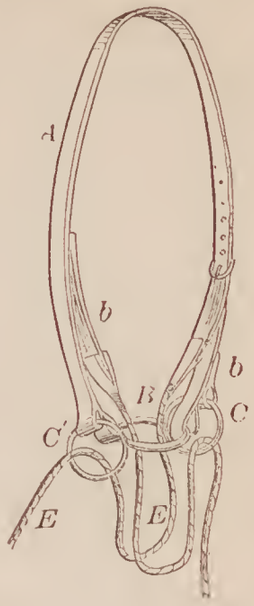
Fig. 13



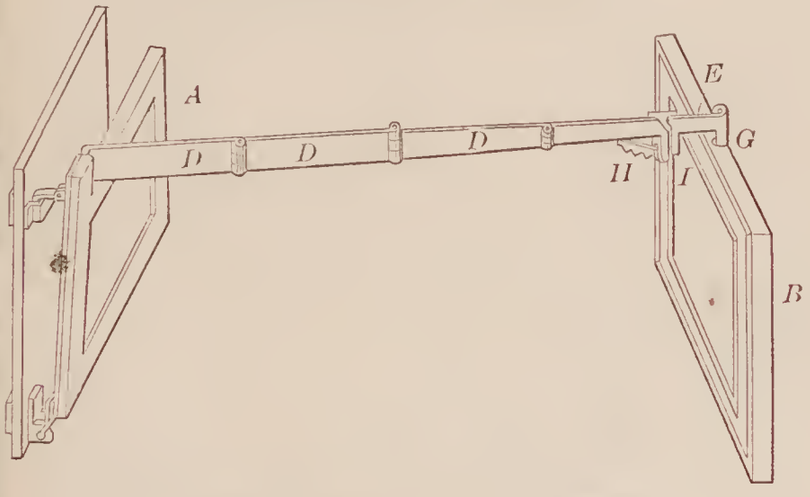
77227—J. Warren—*Corn Sheller.*



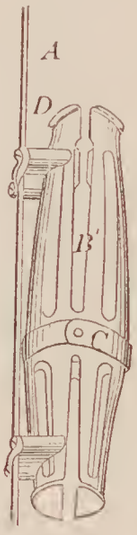
77235—S. V. R. York—*Bitting Attatchment.*



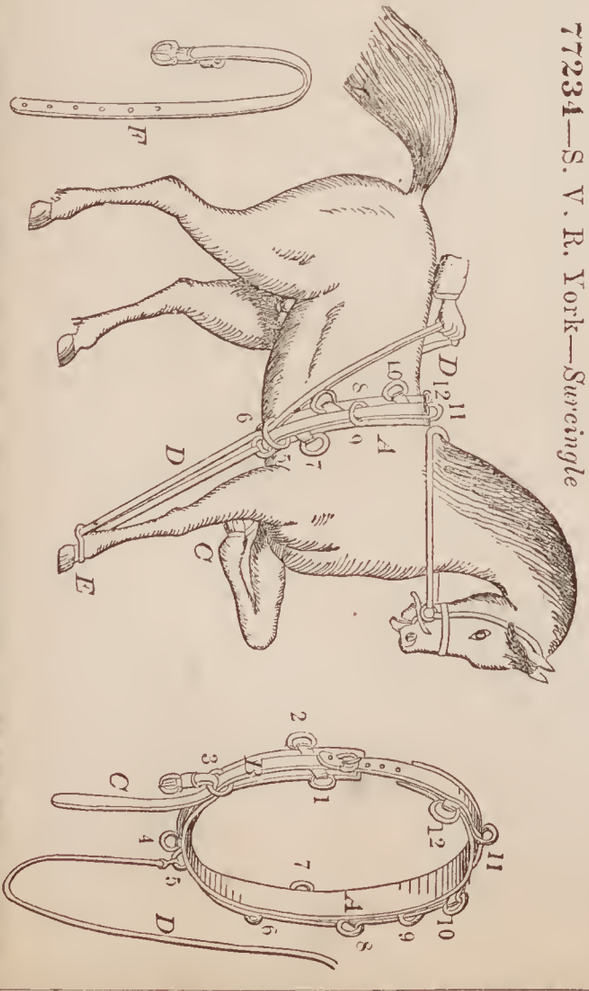
77229—U. A. Woodbury—*Looking Glass.*



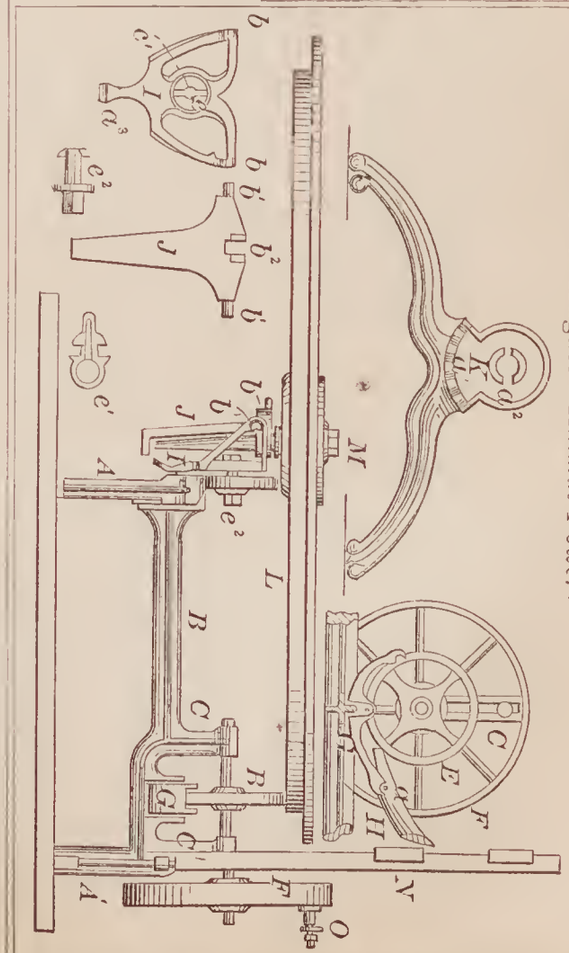
77233—A. Worden—*Whip Holder.*



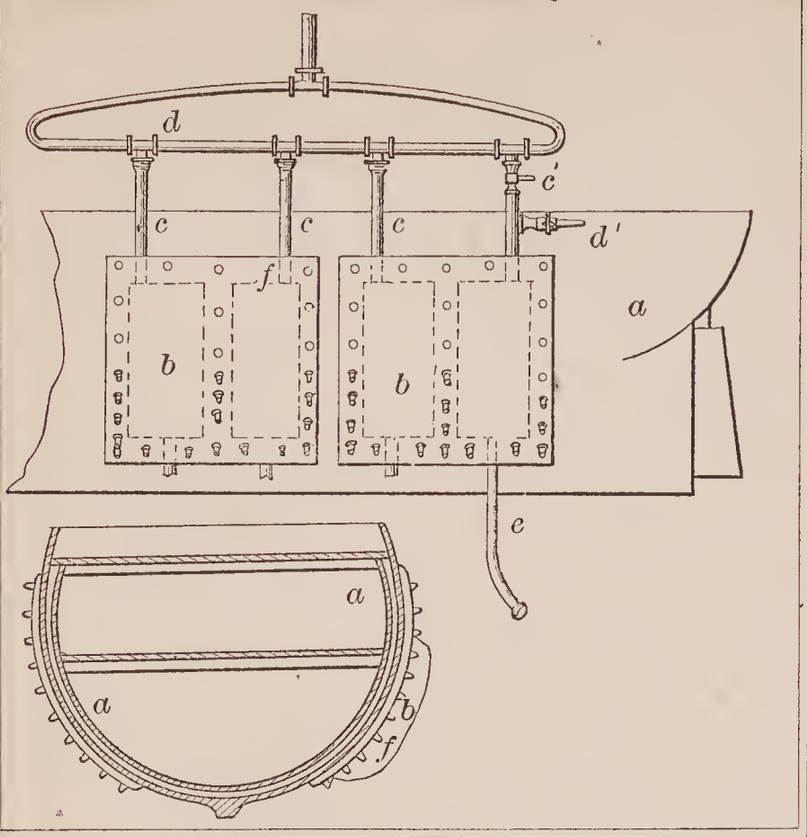
77234—S. V. R. York—*Surcingle*



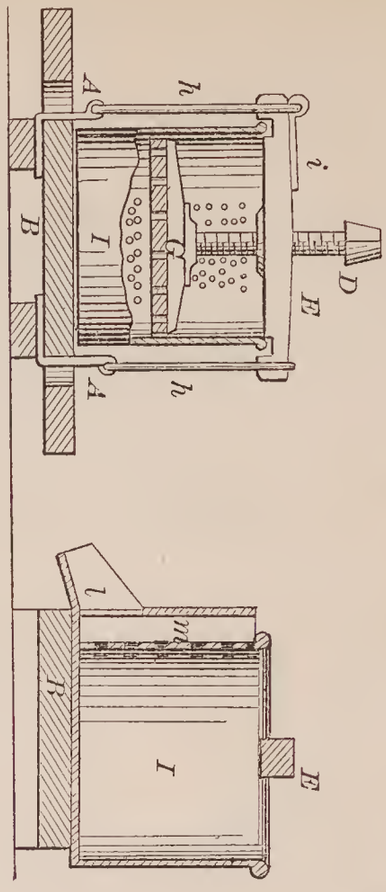
77236—J. J. Adgate—*Animal Power.*



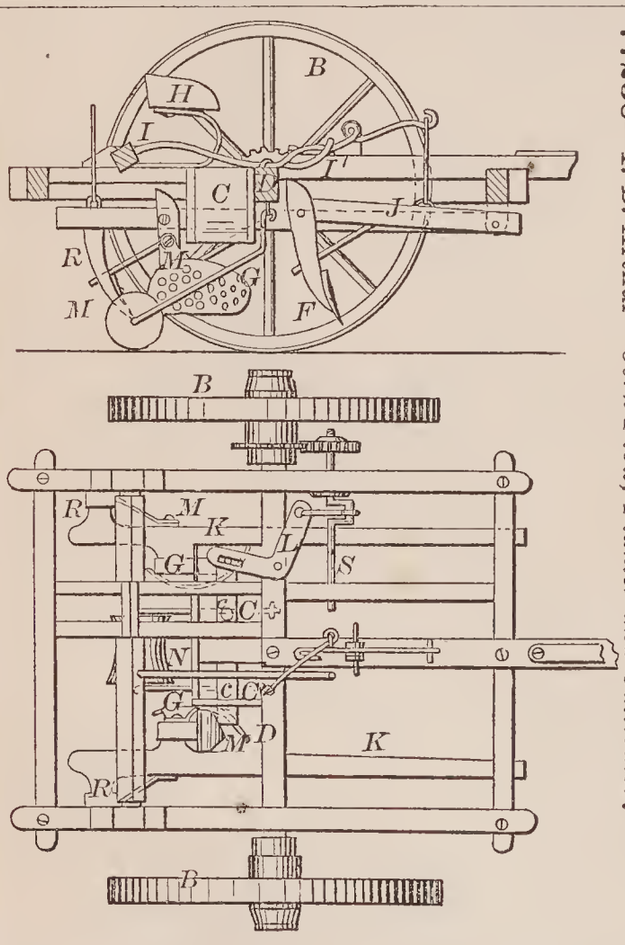
77237—G. M. Allerton—*For Raising Sunken Vessels.*



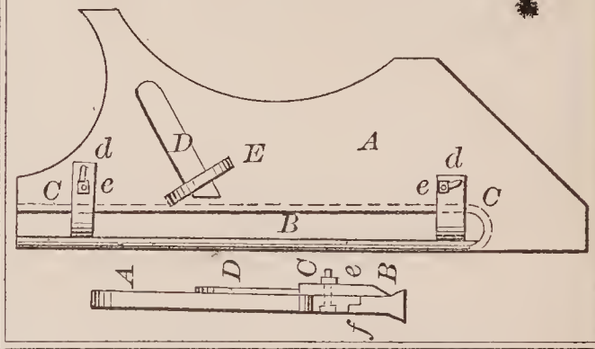
77239—S. S. Avis—*Lard Press.*



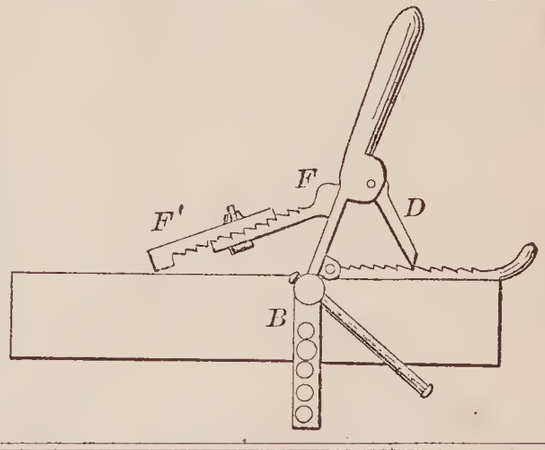
77238—I. B. Arthur—*Corn Plow, Planter and Cultivator.*



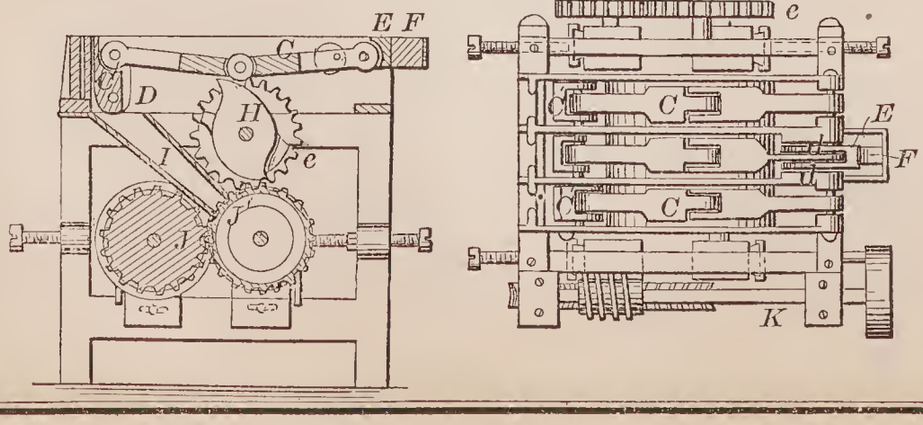
77242—J. Bacon—*Plow Land Side.*



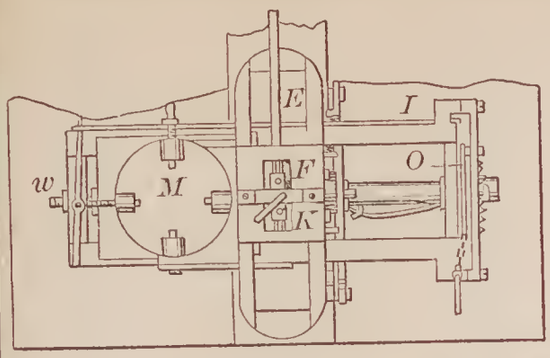
77243—J. H. Baker—*Floor Clamp.*

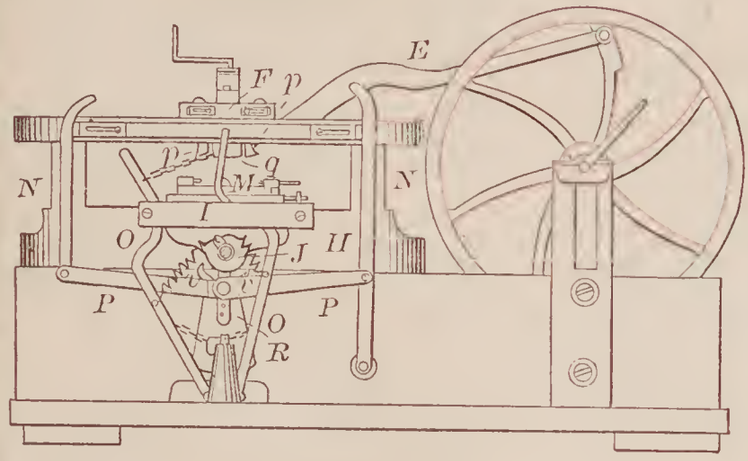


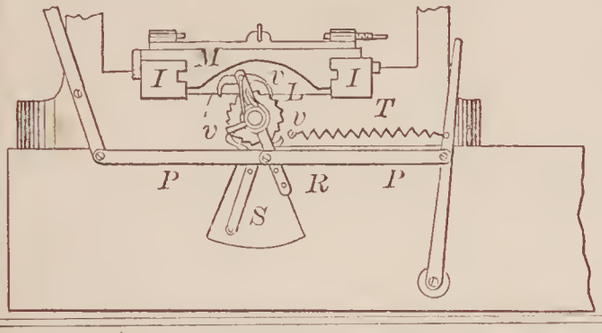
77240—B. Babbitt—*Quartz Crusher.*



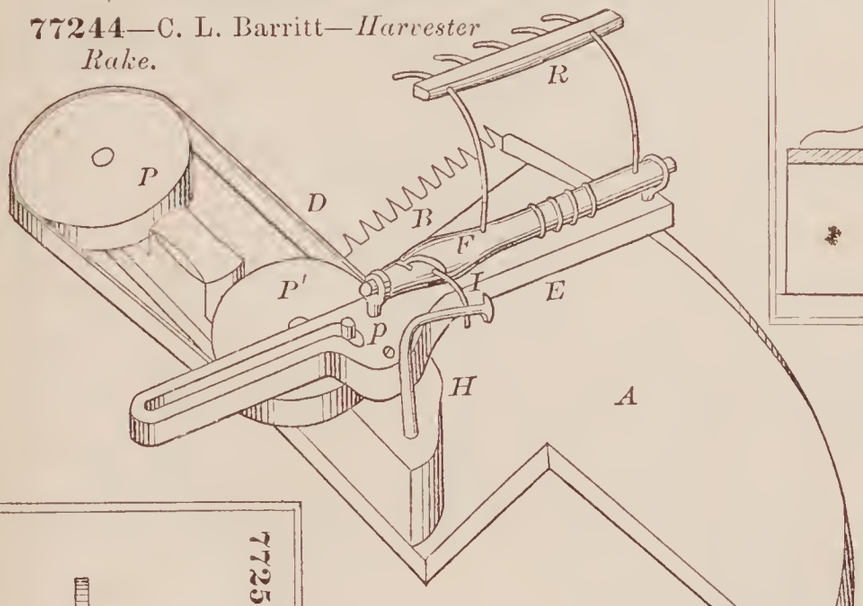
77241—J. S. L. Babbs—*For Making Pegs.*



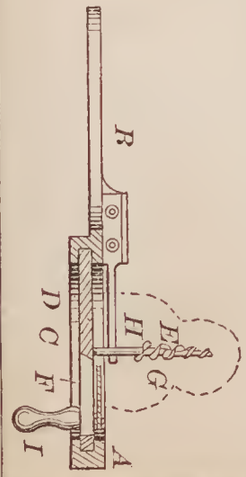




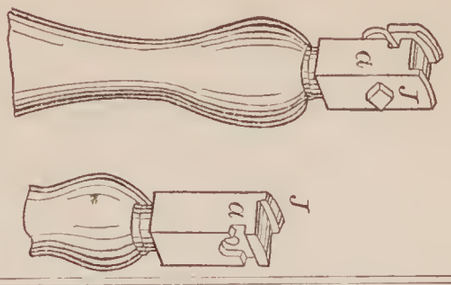
77244—C. L. Barritt—*Harvester Rake.*



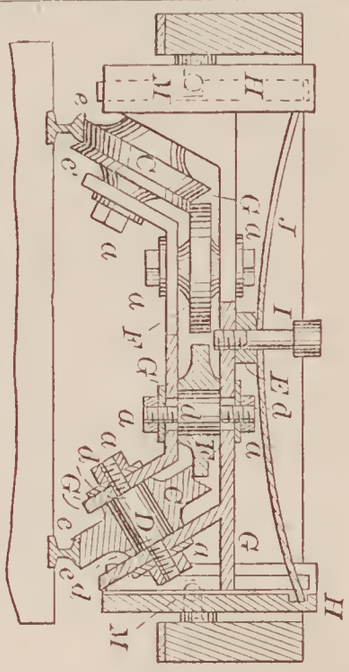
77250—I. Bullard—*Vegetable Slicer.*



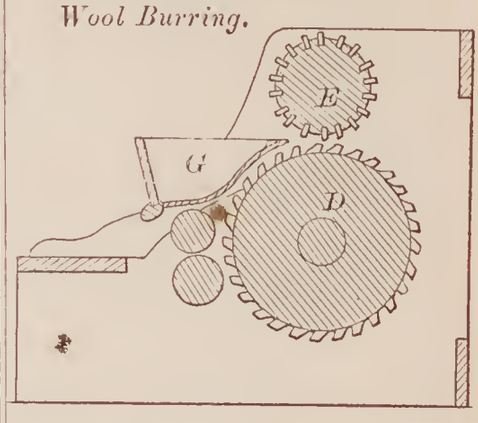
77246—J. Blease—*Fore Part Iron.*



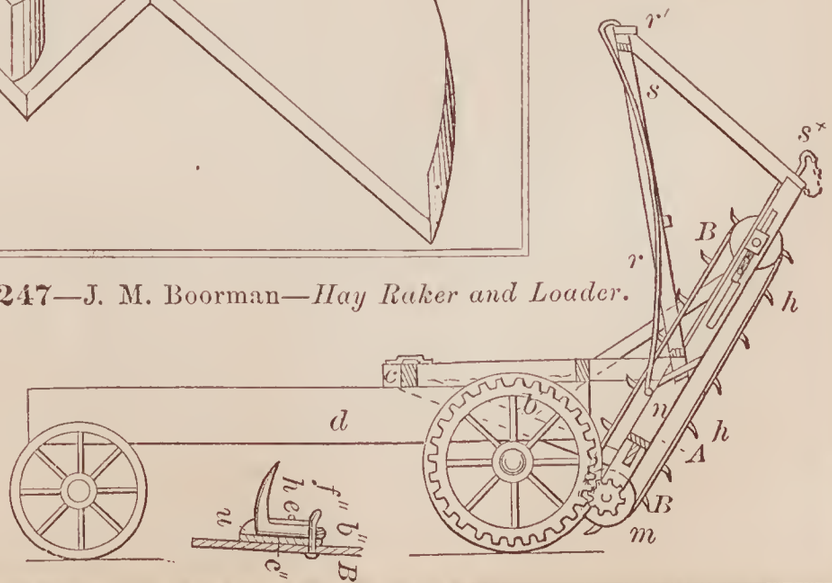
77248—S. Y. Bradstreet—*Safety Truck*



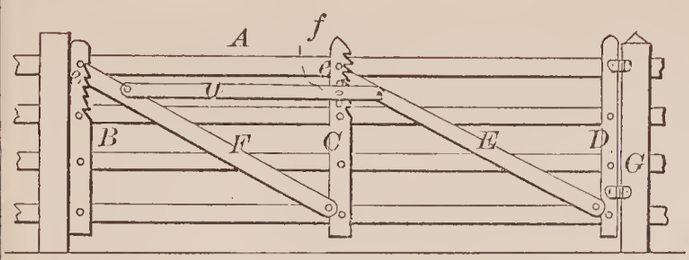
77249—L. Brumbach—*For Wool Burring.*



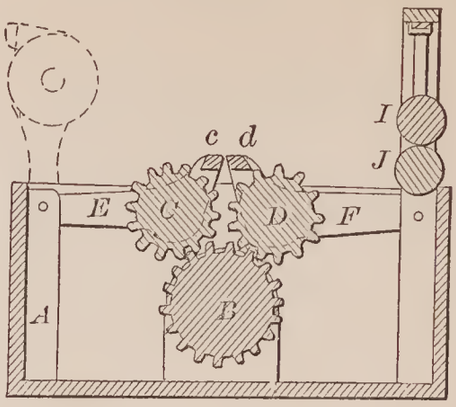
77247—J. M. Boorman—*Hay Raker and Loader.*



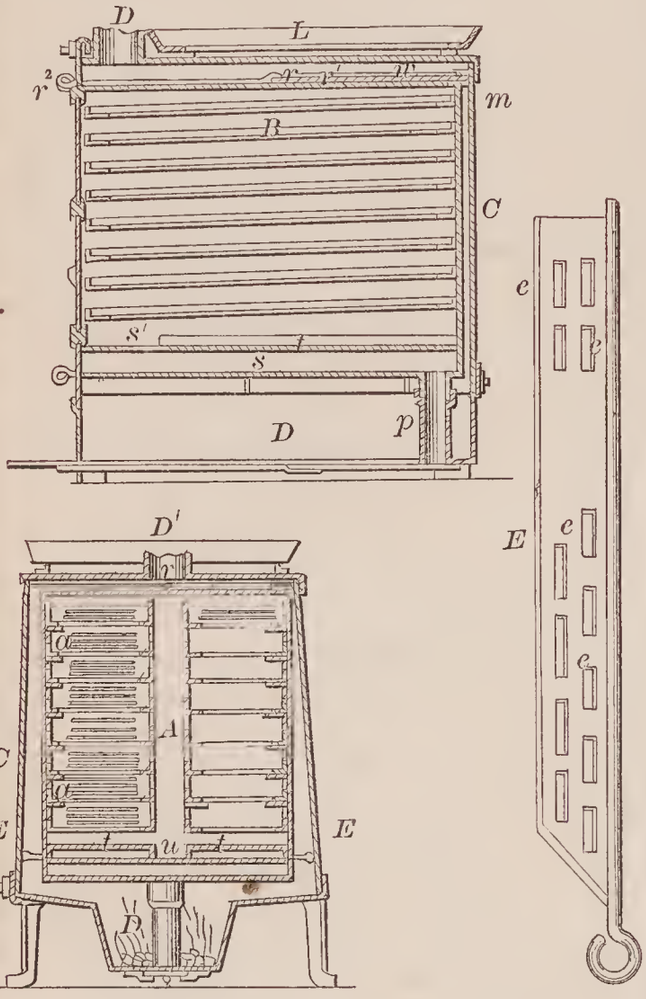
77251—E. P. H. Capron—*Farm Gate*



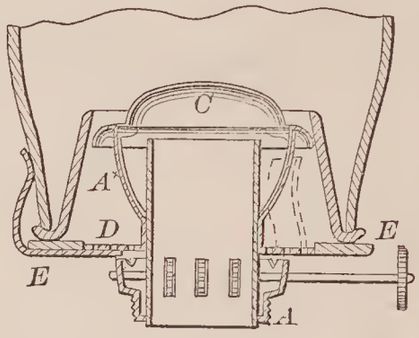
77252—Case & Johnson—*Washing Machine.*



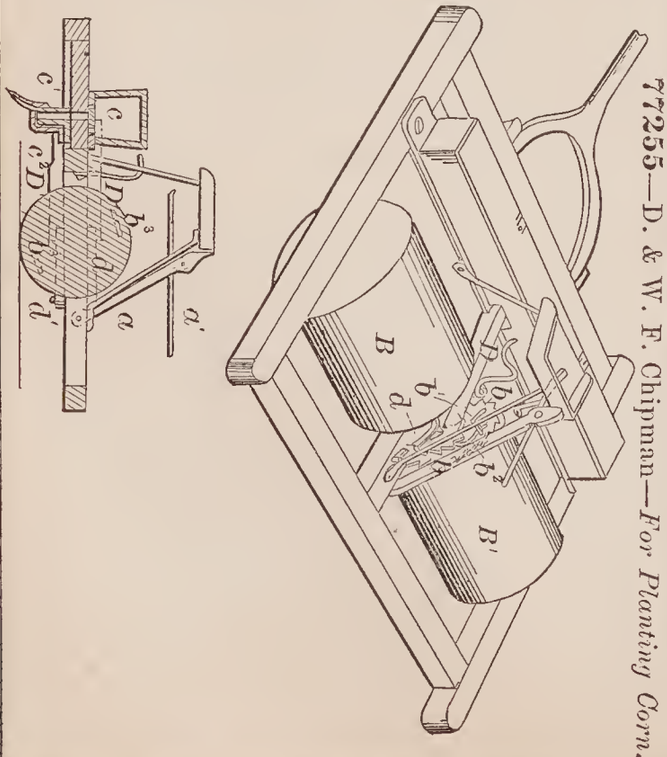
77253—S. L. Cheyney—*Dryer.*



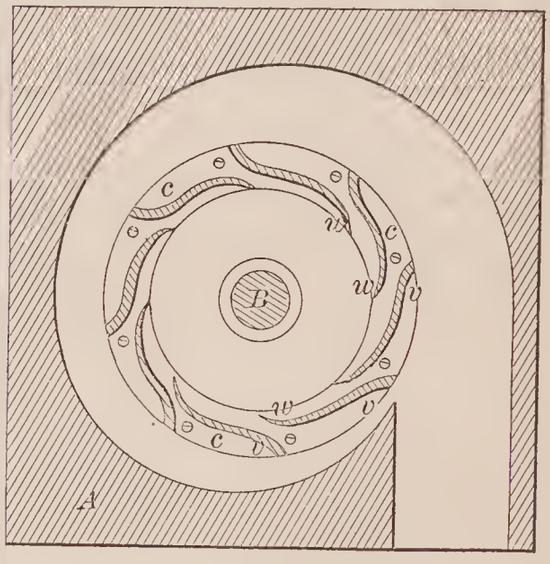
77254—G. Chinnock—*Lamp Burner.*

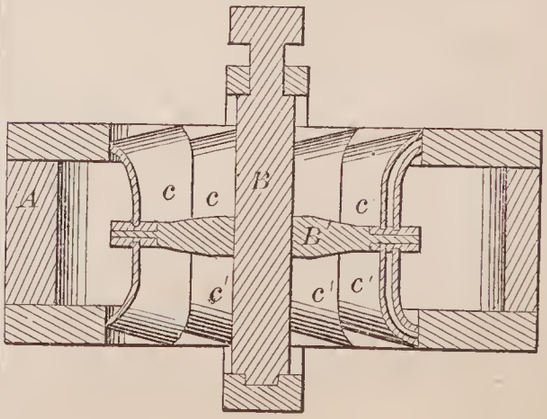


77255—D. & W. F. Chipman—*For Planting Corn.*

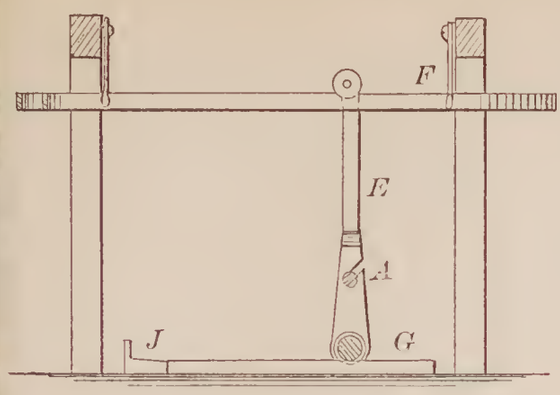


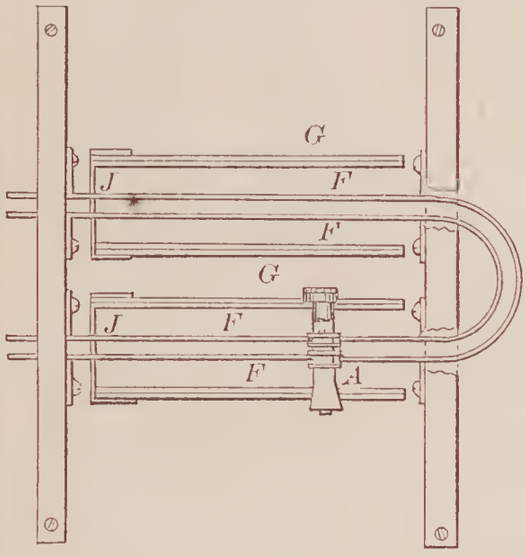
77256—J. Clark—*Water Wheel.*



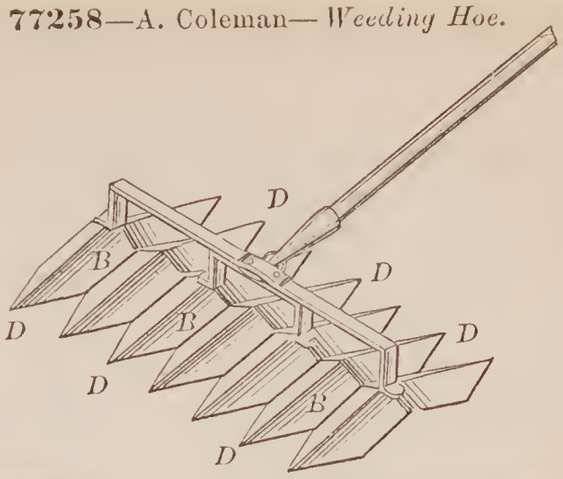


77257—J. H. Cole—*Roofing Machine.*

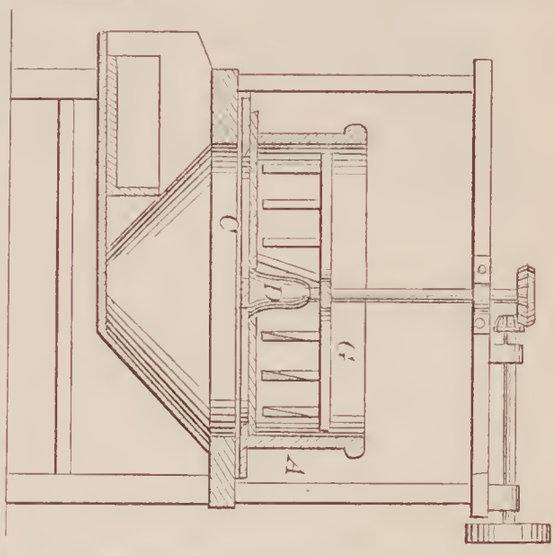




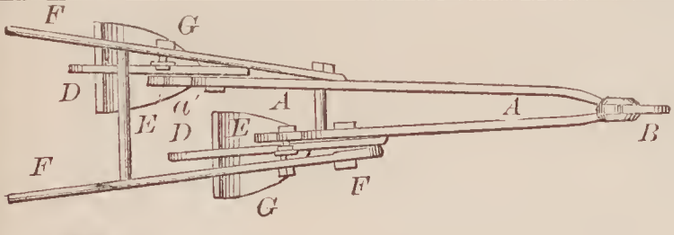
77258—A. Coleman—*Weeding Hoe.*

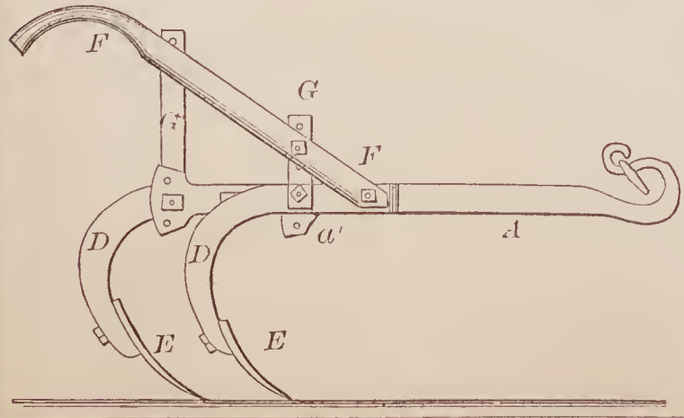


77259—J. B. Cox—*For Disintegrating Ores.*

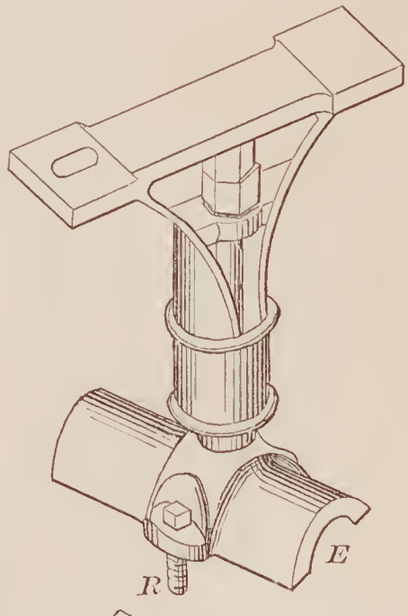


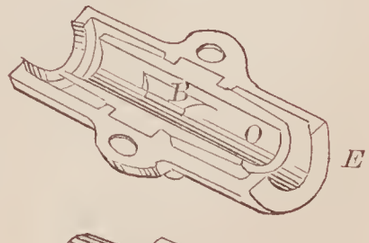
77260—A. J. Craig—*Double Shovel Plow.*

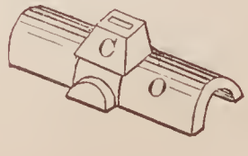




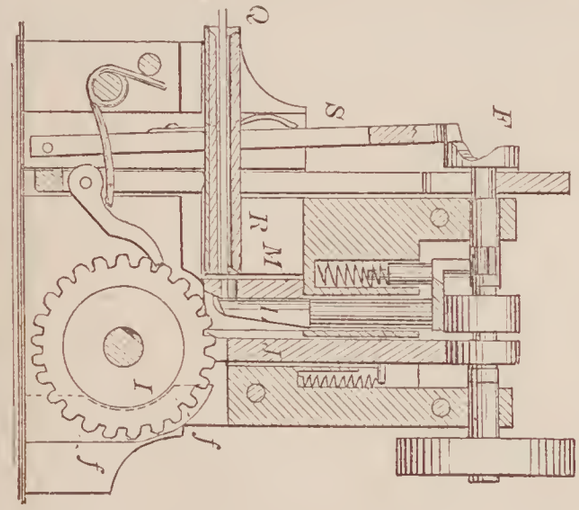
77261—W. W. Crane—*Self-Lubricating Box for Shafting.*



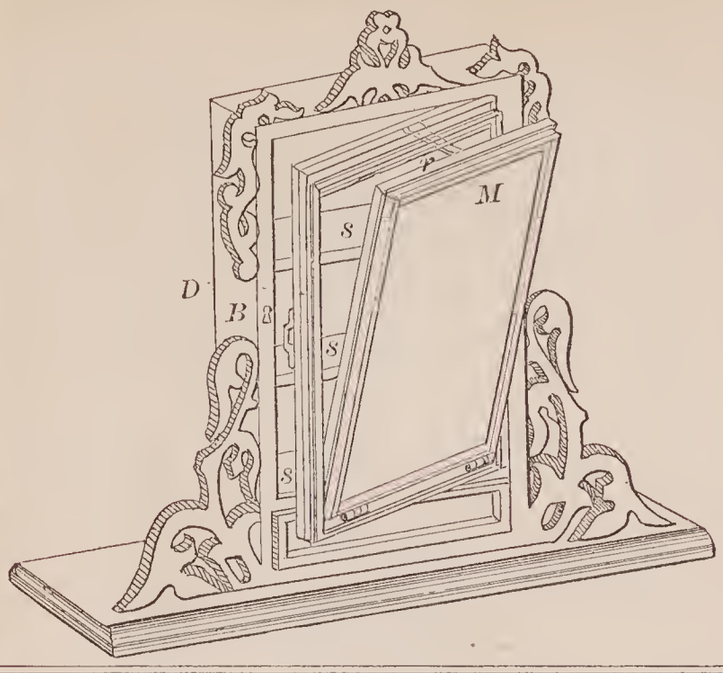




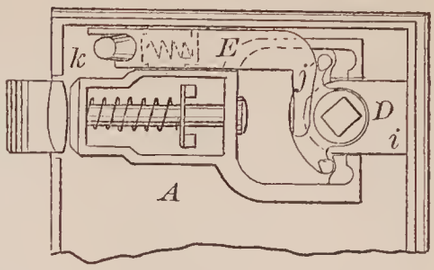
77262—F. Davison—*Nail Machine.*



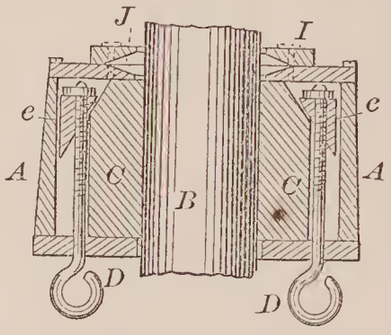
77263—H. W. Eastman—*Bureau Toilet Attachment.*

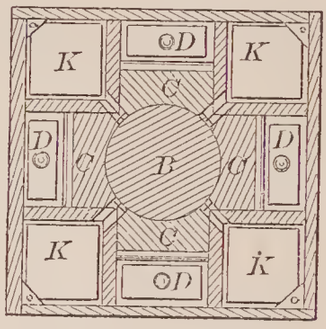


77264—H. H. Elwell—*Reversible Knob Latch.*

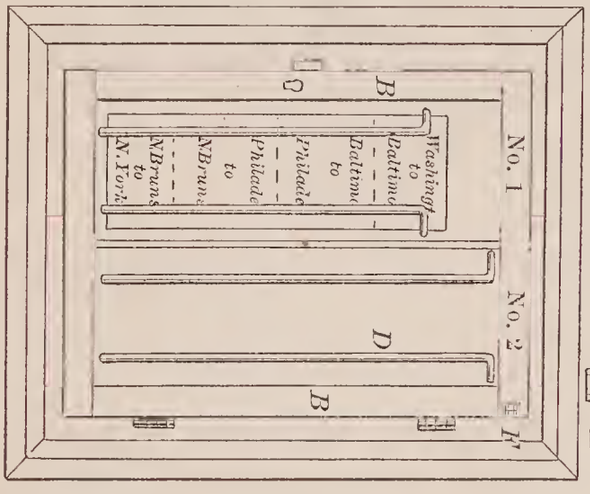


77265—J. M. Evril—*Mill Bush.*

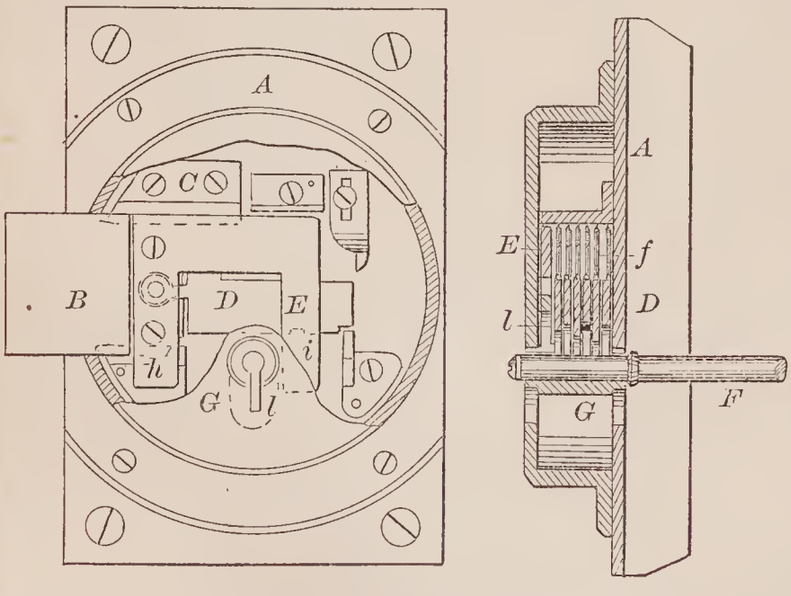




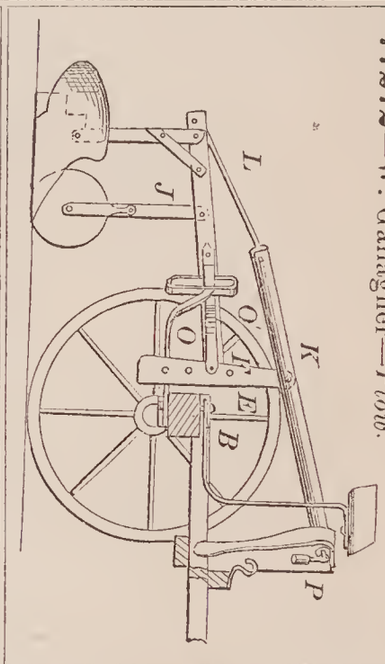
77266—O. G. & S. G. Fessenden—*Ticket Holder for Railroad Car, &c.*



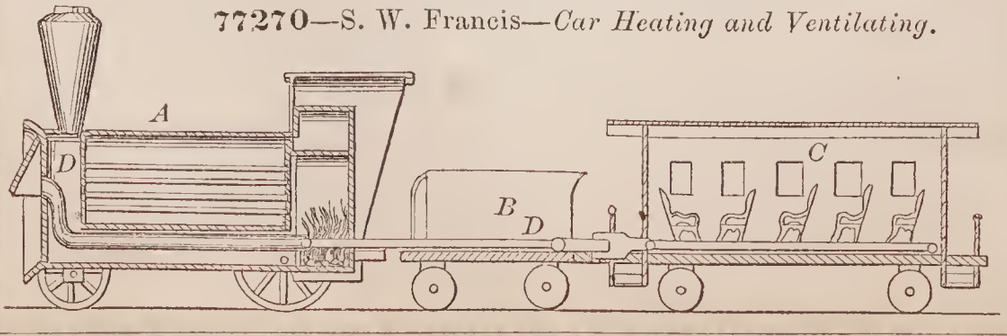
77267—W. D. Field—*Door Lock.*



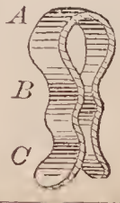
77272—W. Gallagher—*Plow.*



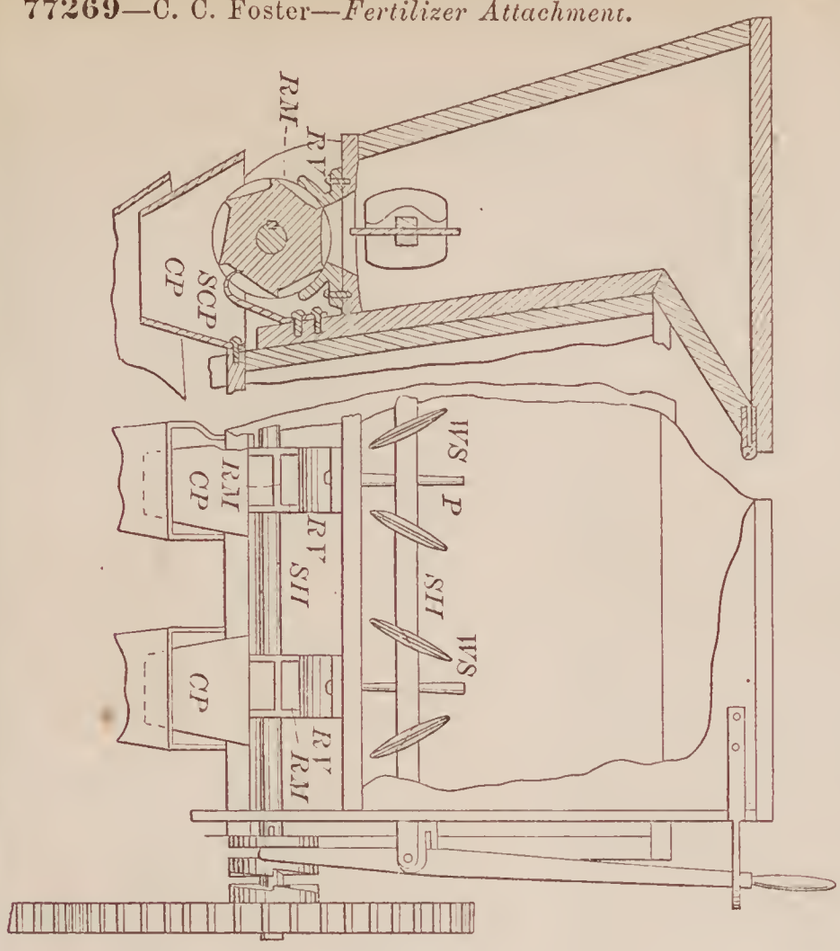
77270—S. W. Francis—*Car Heating and Ventilating.*



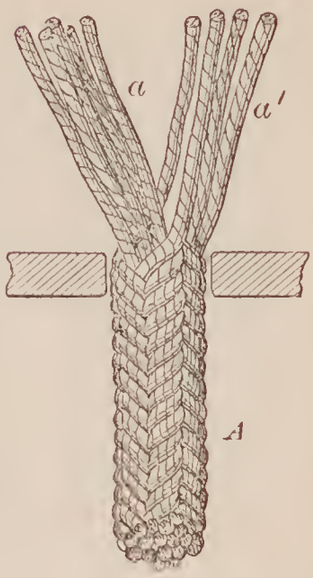
77268—P. Finley—*Clothes Pin.*



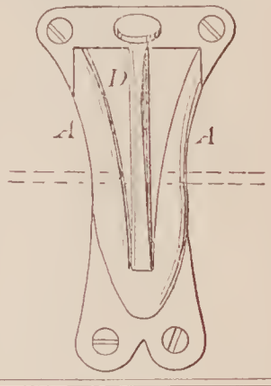
77269—C. C. Foster—*Fertilizer Attachment.*



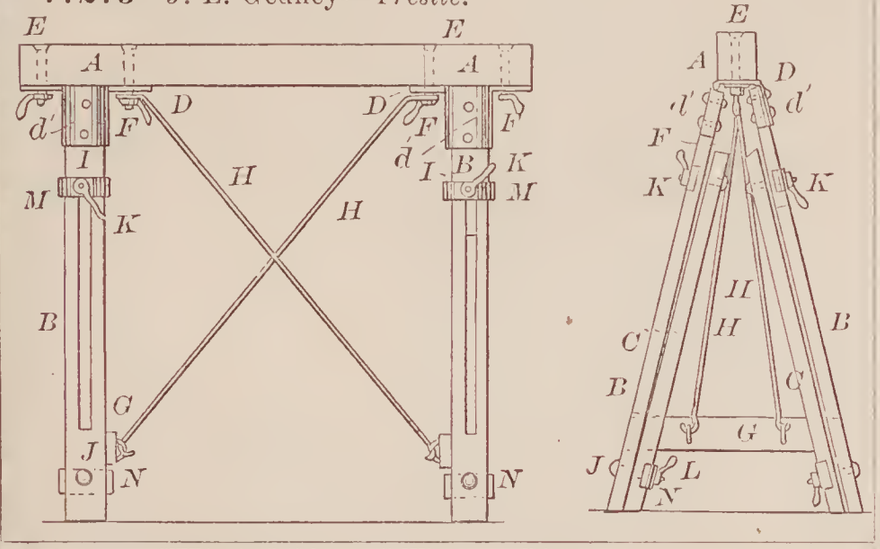
77275—J. Glanding—
Steam Engine Packing.



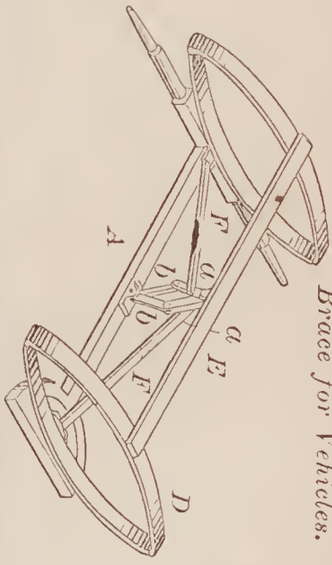
77274—J. W. Gladding—
Clothes Line Holder.



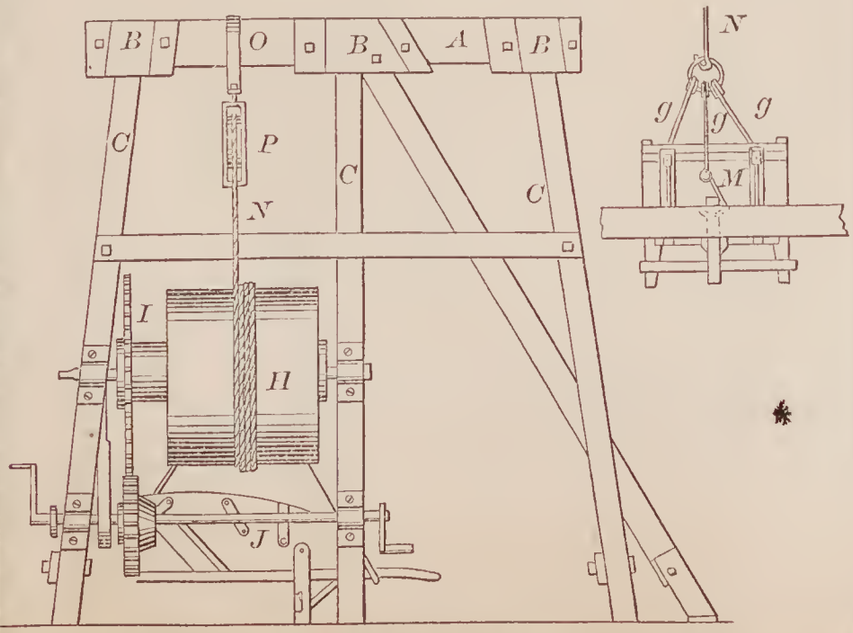
77273—J. E. Gedney—*Trestle.*



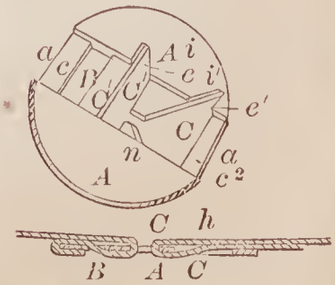
77276—C. C. Gleason—*Spring and Body Brace for Vehicles.*



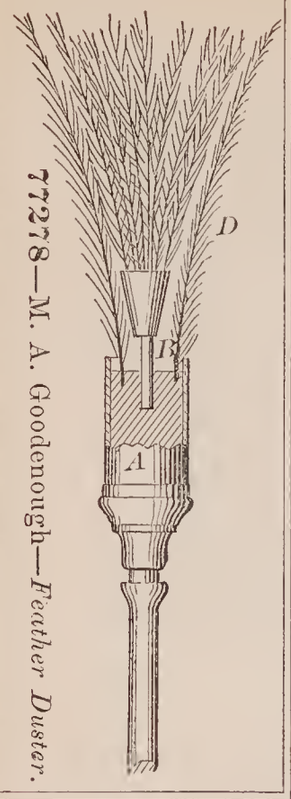
77271—C. Fricke—*Derrick.*



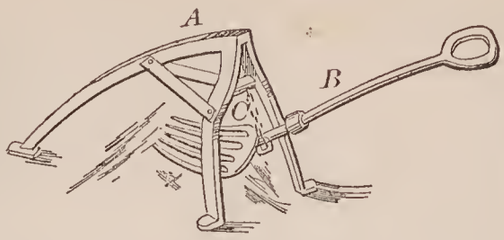
77277—J. H. Gooch—
Cotton Bale Tie.



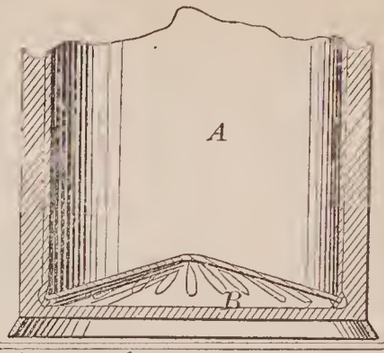
77278—M. A. Goodenough—*Feather Duster.*

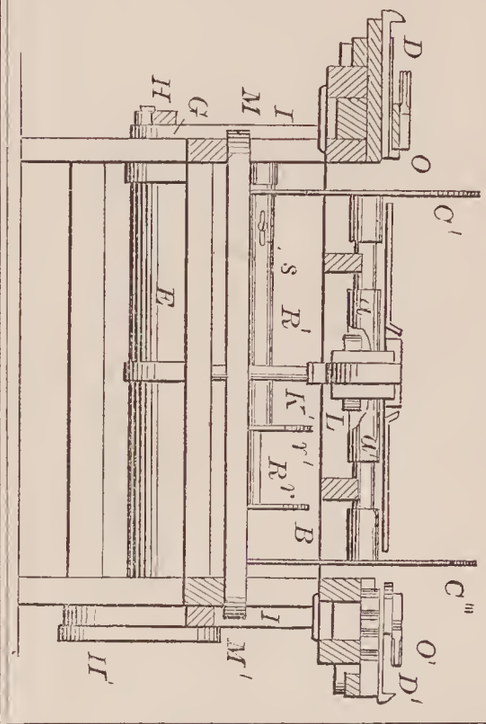


77279—A. Graves—*Potato Digger.*

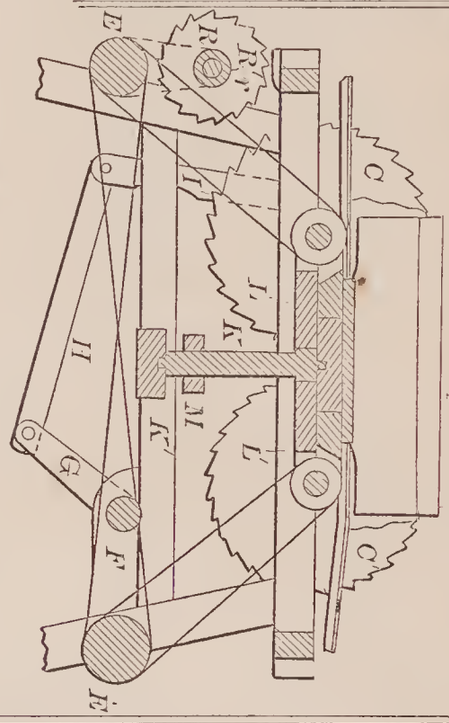


77280—J. L. Hadden—*Water Cooler.*

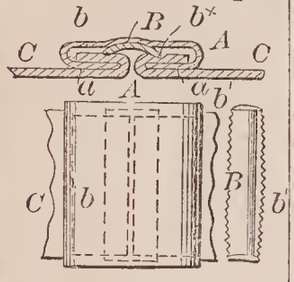




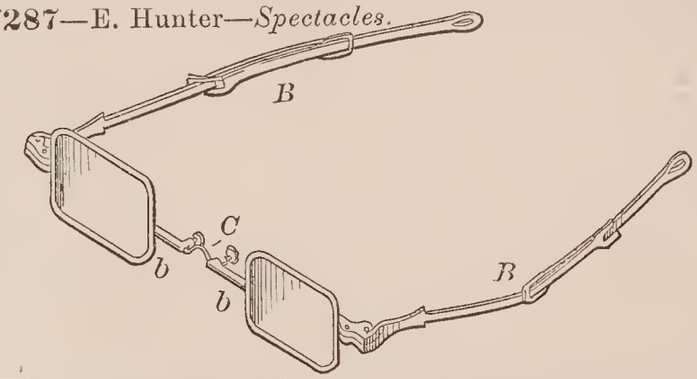
77283—S. Head—*Shingle Machine.*



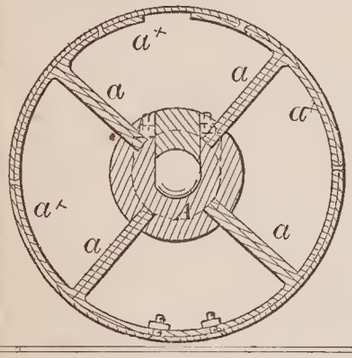
77282—Hawes & Bliss—*Belt Clasp.*



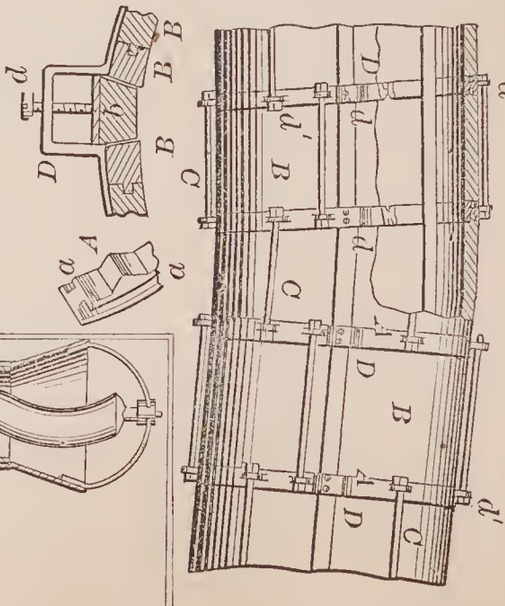
77287—E. Hunter—*Spectacles.*



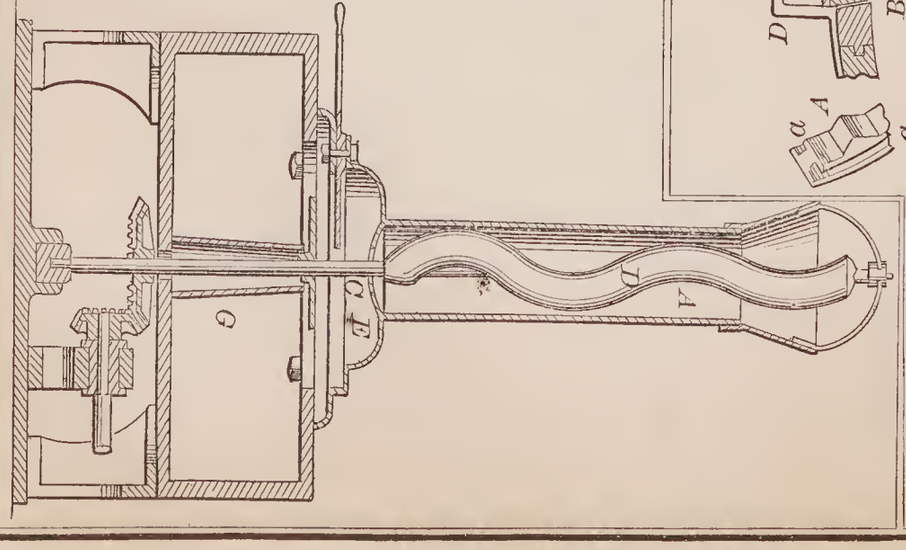
77284—F. Hewitt—*Pulley.*



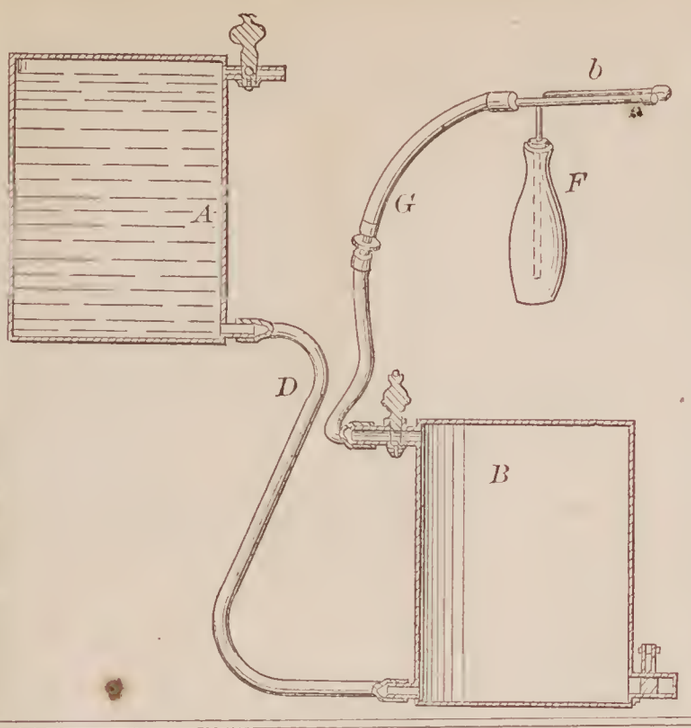
77285—W. F. Holske—*Tubular Structure.*



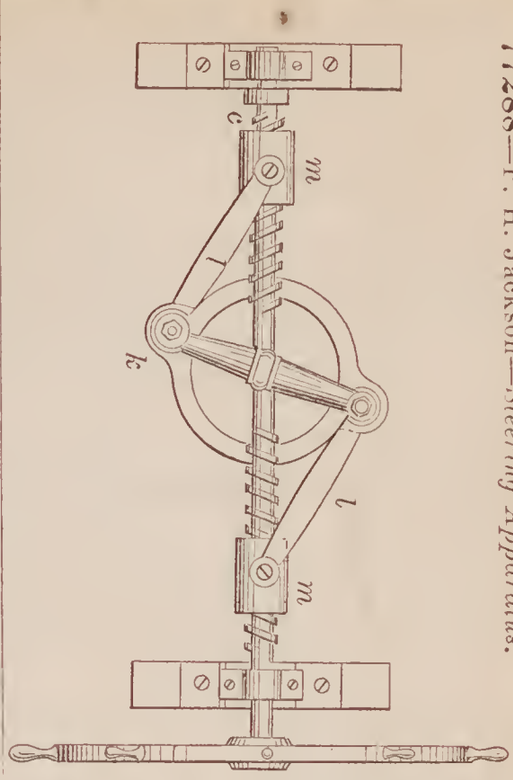
77281—Hawes & Bliss—*For Cleaning Emery.*



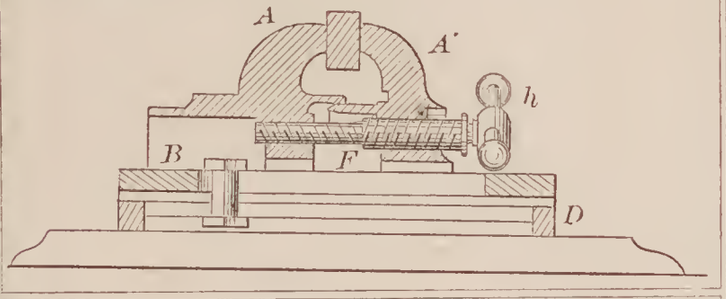
77286—C. H. Hudson—*For Diffusing Liquids.*



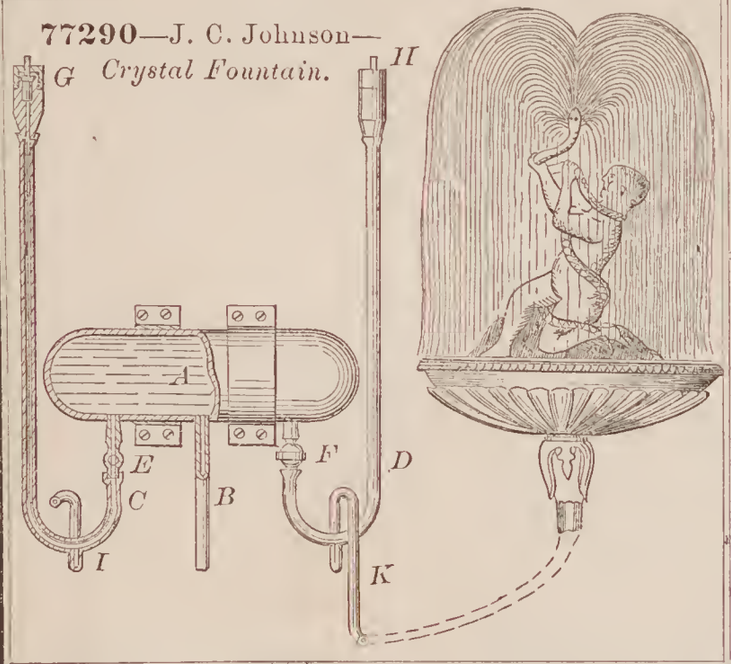
77288—P. H. Jackson—*Steering Apparatus.*



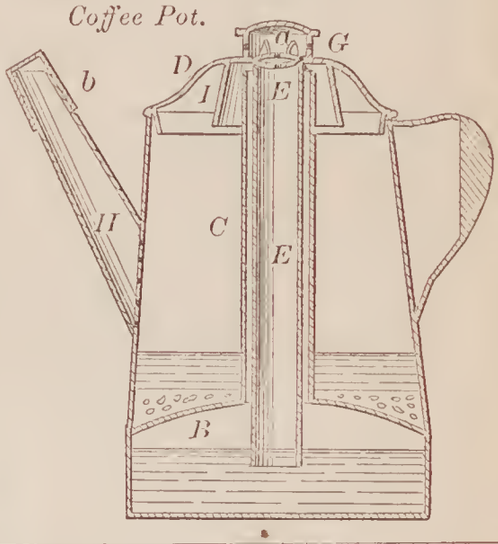
77289—A. Jameson—*Vise.*



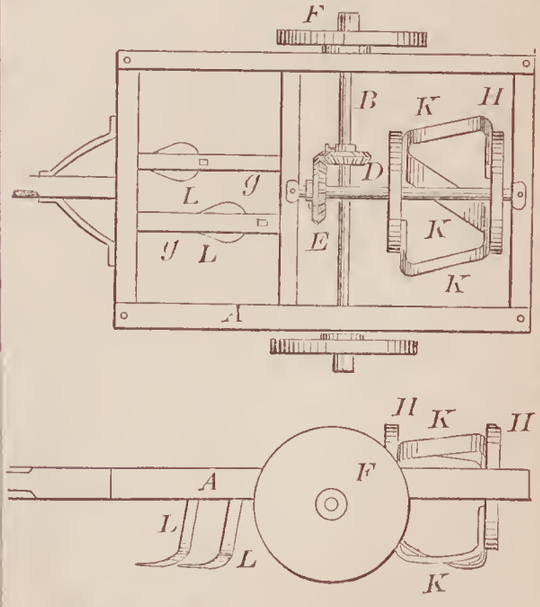
77290—J. C. Johnson—*Crystal Fountain.*



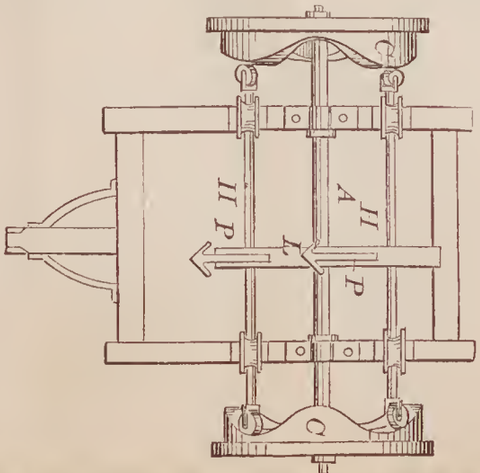
77291—A. C. Kasson—*Tea and Coffee Pot.*



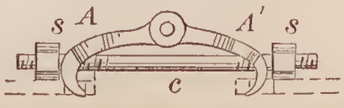
77293—I. J. Kidd—*Cotton Chopper.*



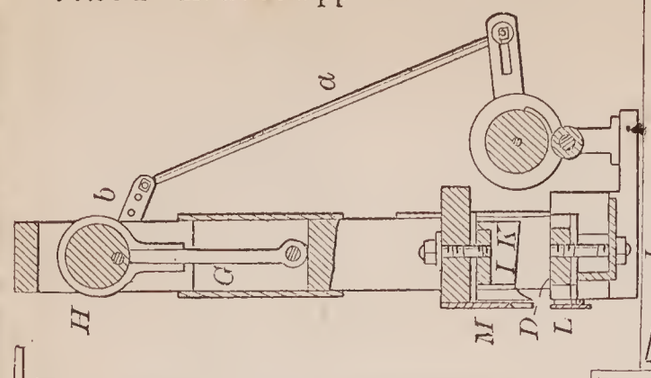
77292—I. J. Kidd—*Cotton Scraper.*

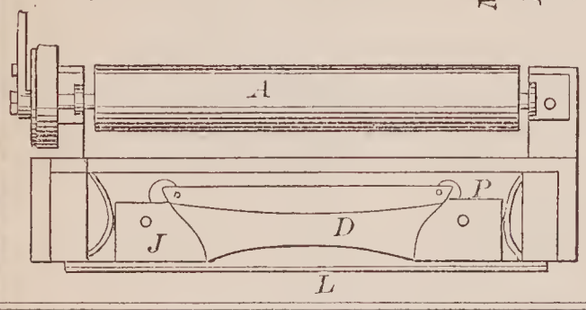


77295—C. W. T. Krausch—*Belt Coupling.*

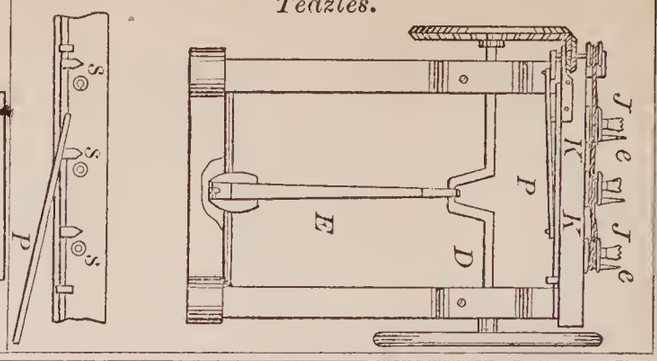


77294—H. F. Knapp—*Collar Machine.*

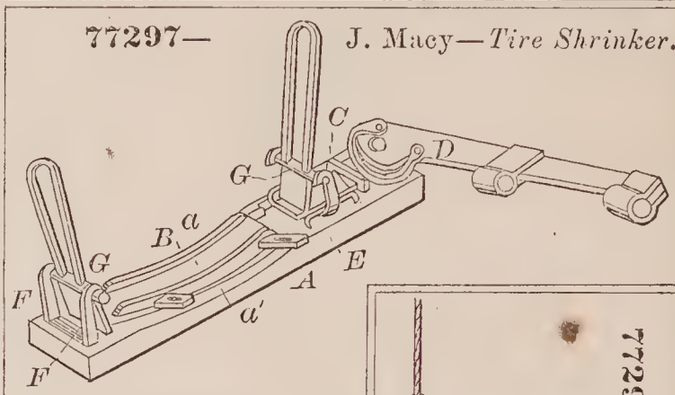




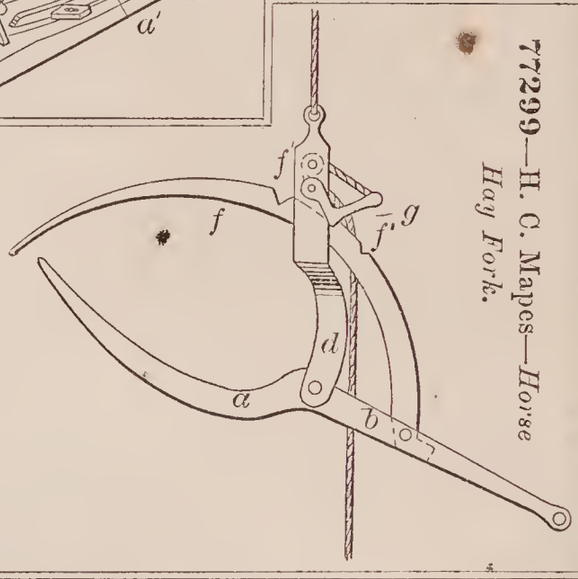
77296—E. Leffingwell—*For Trimming Teazles.*



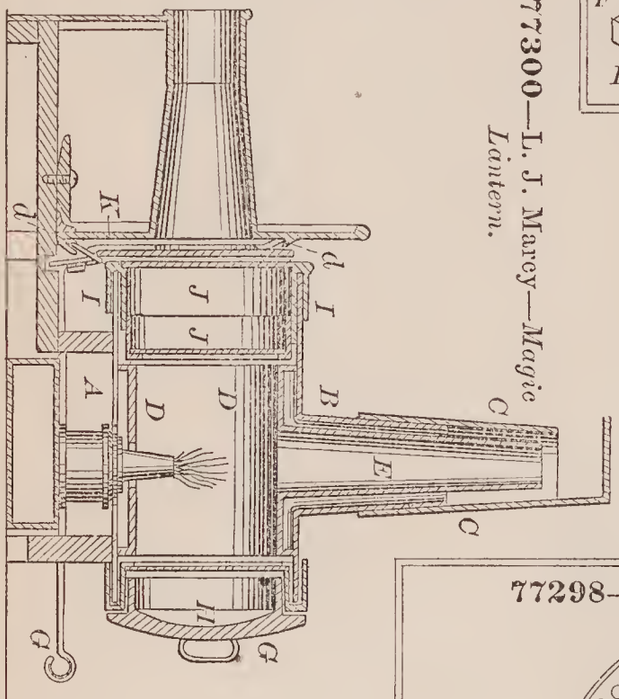
77297— J. Macy—*Tire Shrinker.*

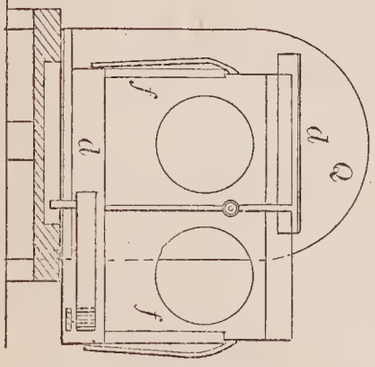


77299—H. C. Mapes—*Horse Hay Fork.*

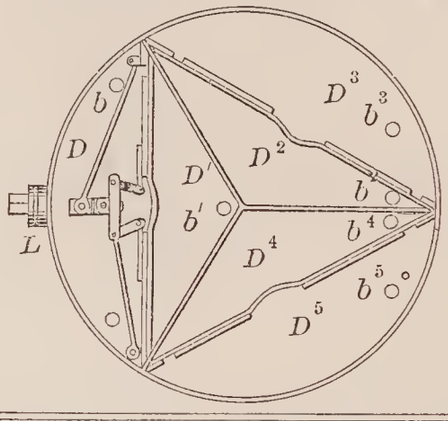


77300—L. J. Marey—*Magic Lantern.*

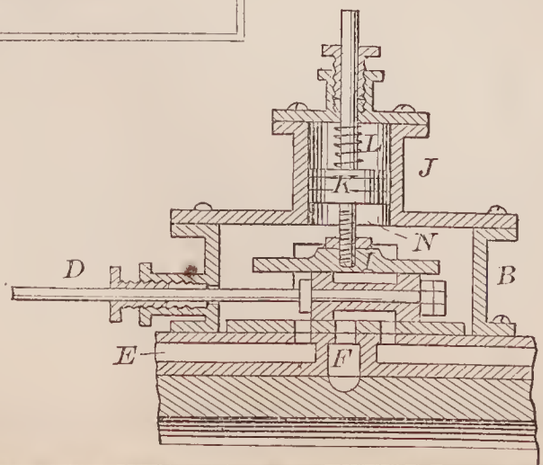


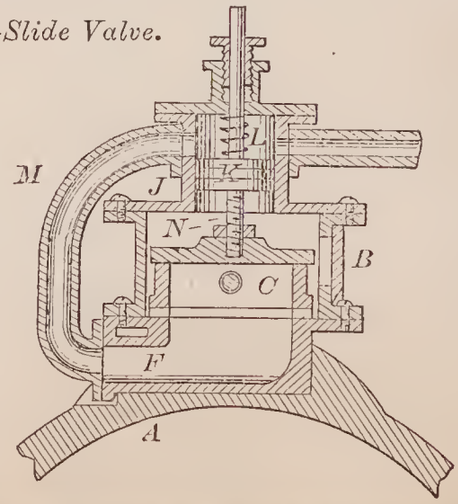


77298—J. W. Mahlon—*Gas Meter.*

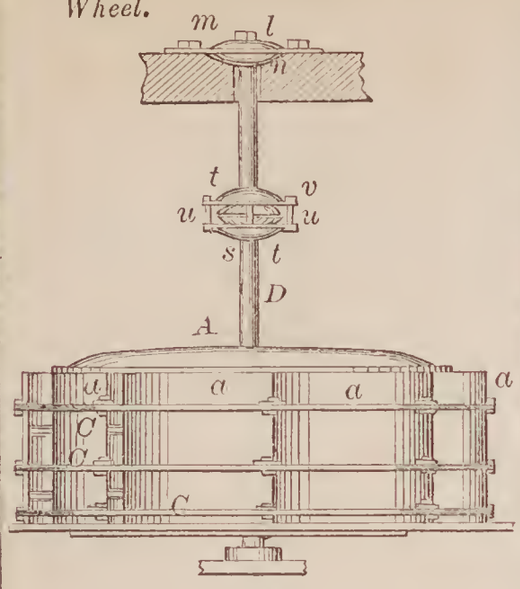


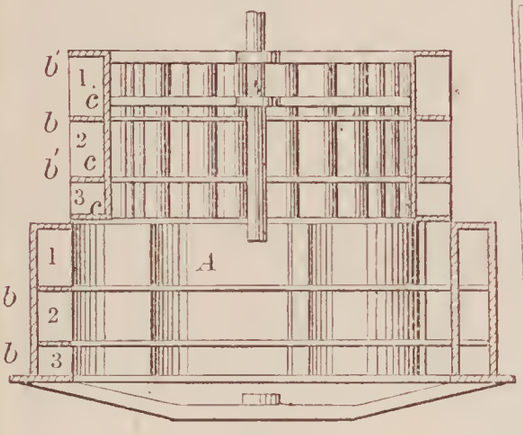
77301—J. Martin—*Slide Valve.*

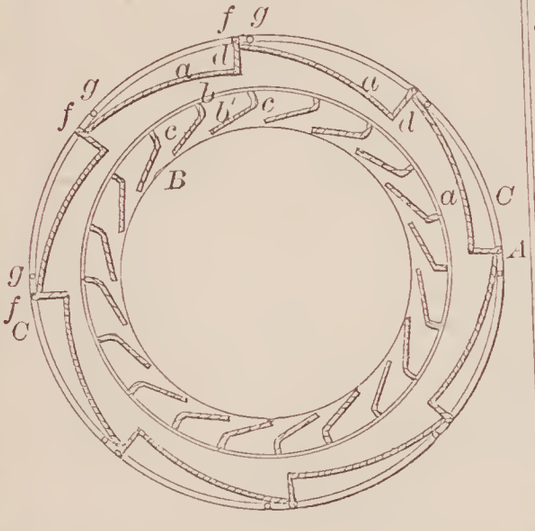




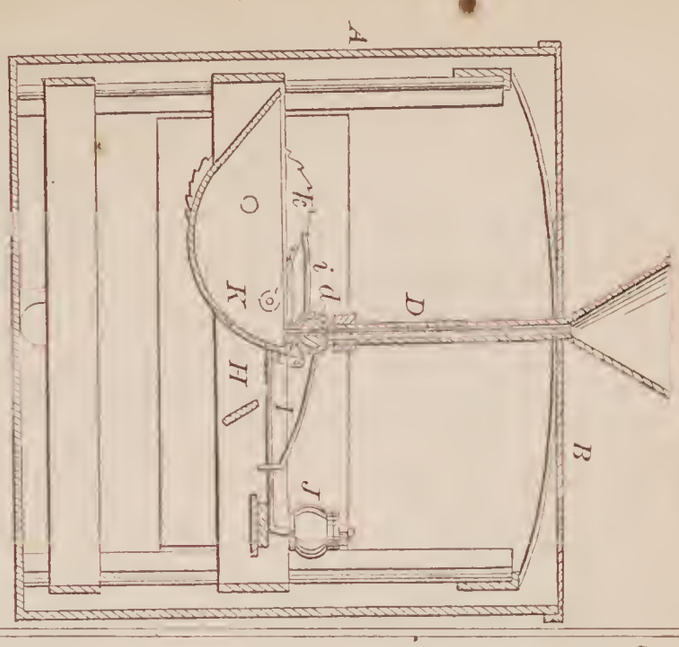
77302—W. H. Matson—*Water Wheel.*



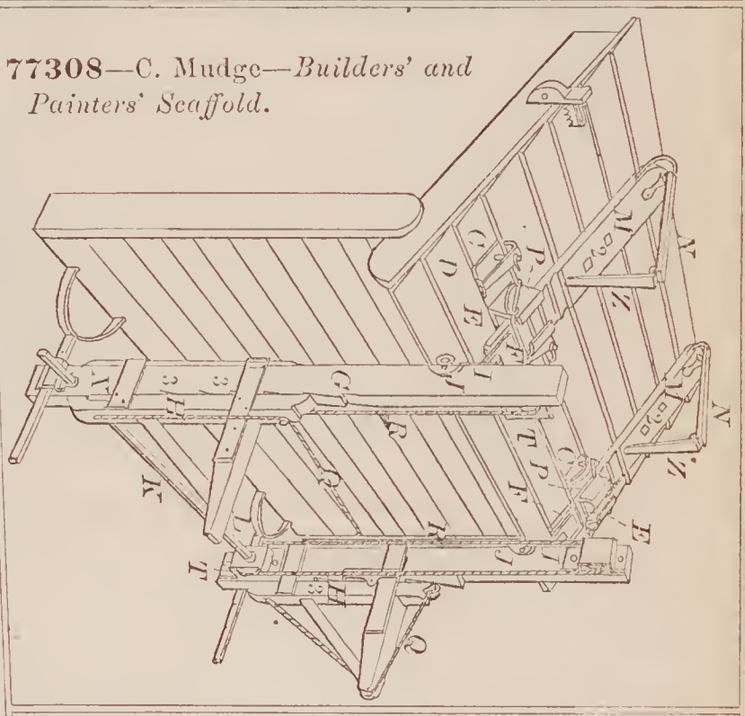




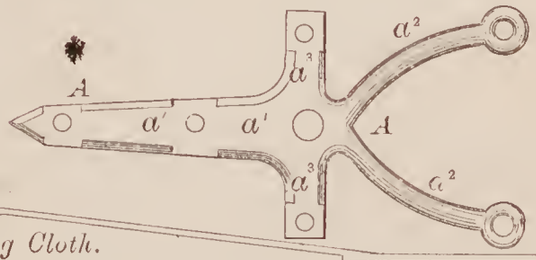
77307—C. E. Moore—*Fluid Meter.*



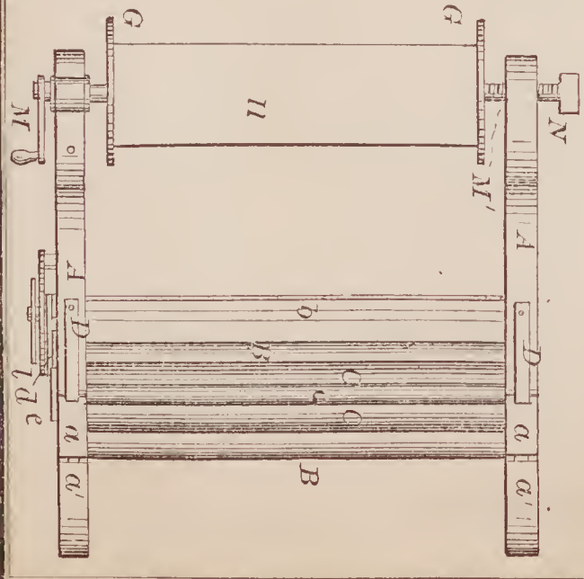
77308—C. Mudge—*Builders' and Painters' Scaffold.*

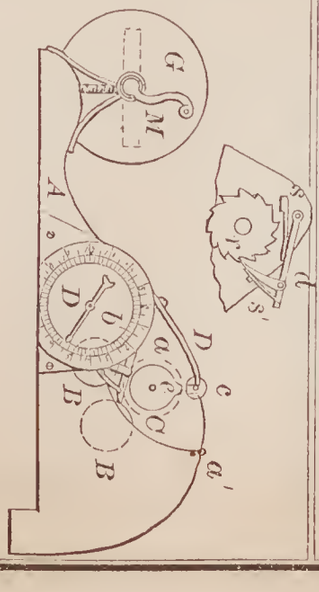


77306—L. C. Miller—*Carriage Spring Brace.*

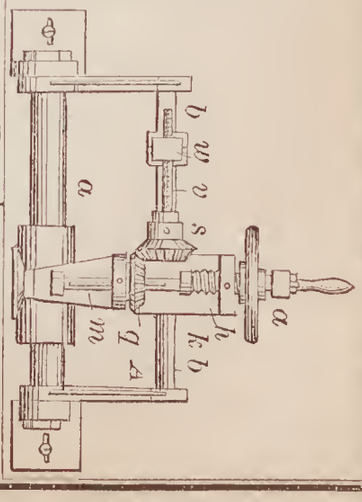


77305—G. R. McIntire—*For Measuring Cloth.*

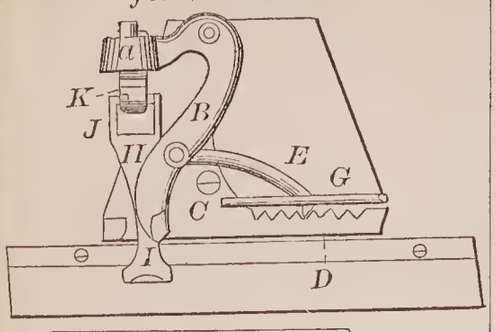


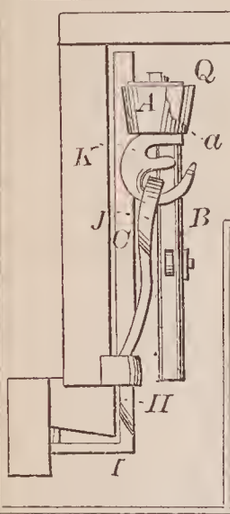


77303—R. B. Matthews—*For Facing Grindstones.*

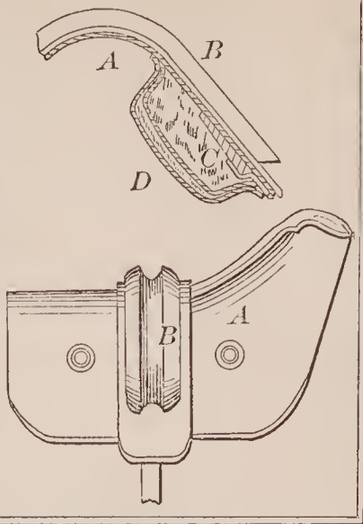


77309—H. E. Murray—*Clamp for Vehicle Seats.*

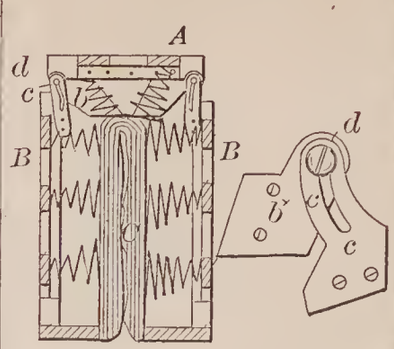




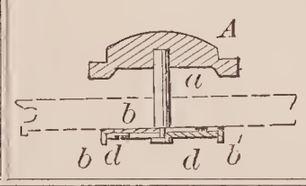
77310—J. O'Mahony—*Dray Saddle.*



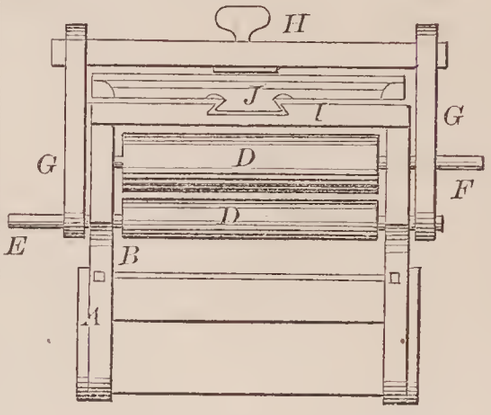
77311—F. C. Payne—*Folding Bed.*

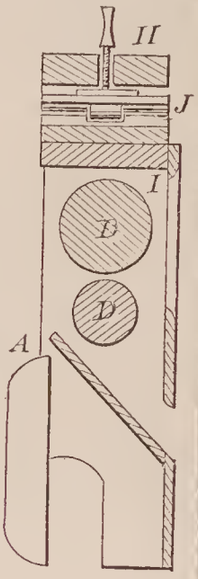


77313—F. J. Perkins—*Button.*

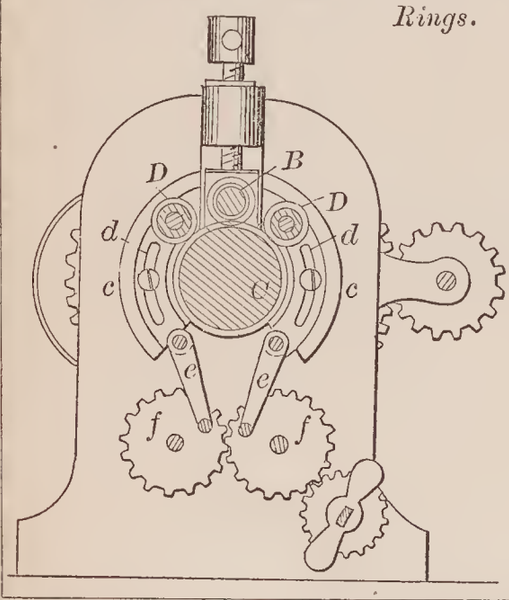


77315—M. Pierce—*Clothes Wringer.*

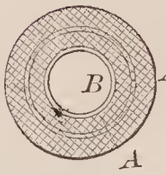




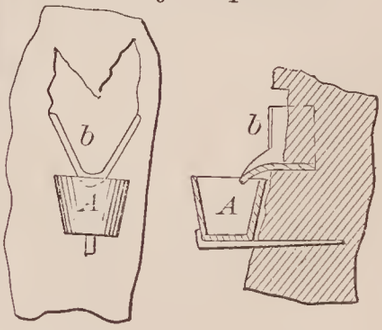
77312—W. H. Peckham—*For Bending Rings.*



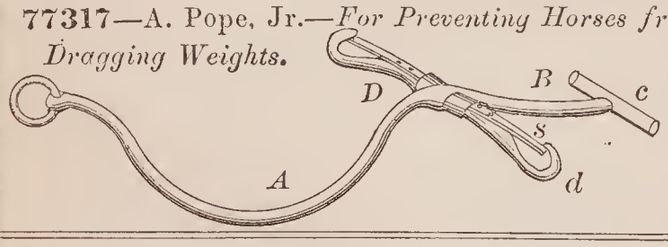
77314—E. L. Perry—*Gas Tube.*



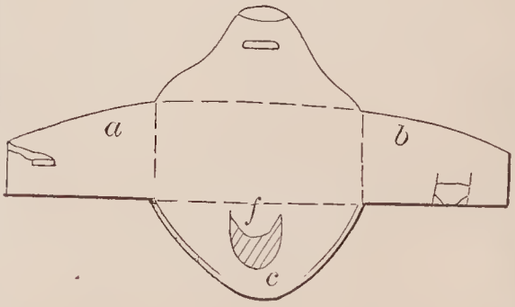
77319—A. Pudigon—*Gathering Turpentine.*



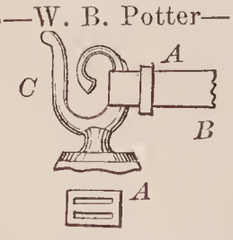
77317—A. Pope, Jr.—*For Preventing Horses from Dragging Weights.*



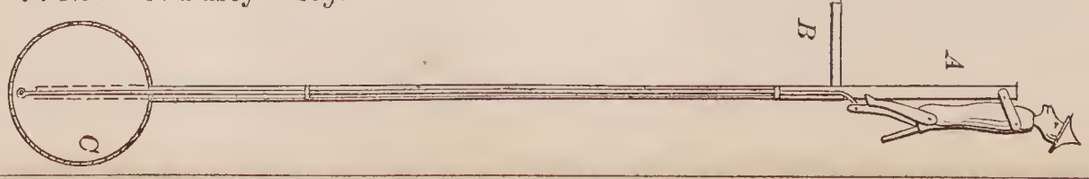
77316—C. R. M. Pohle—*Envelope.*



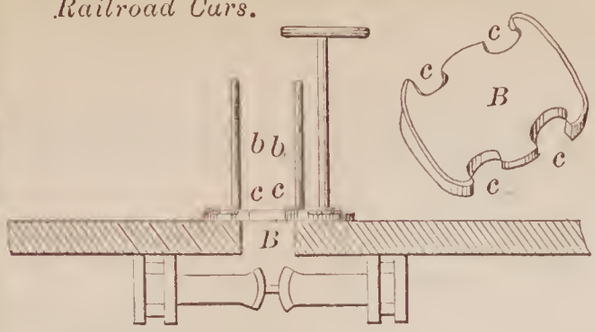
77318—W. B. Potter—*Check Rein Slide.*



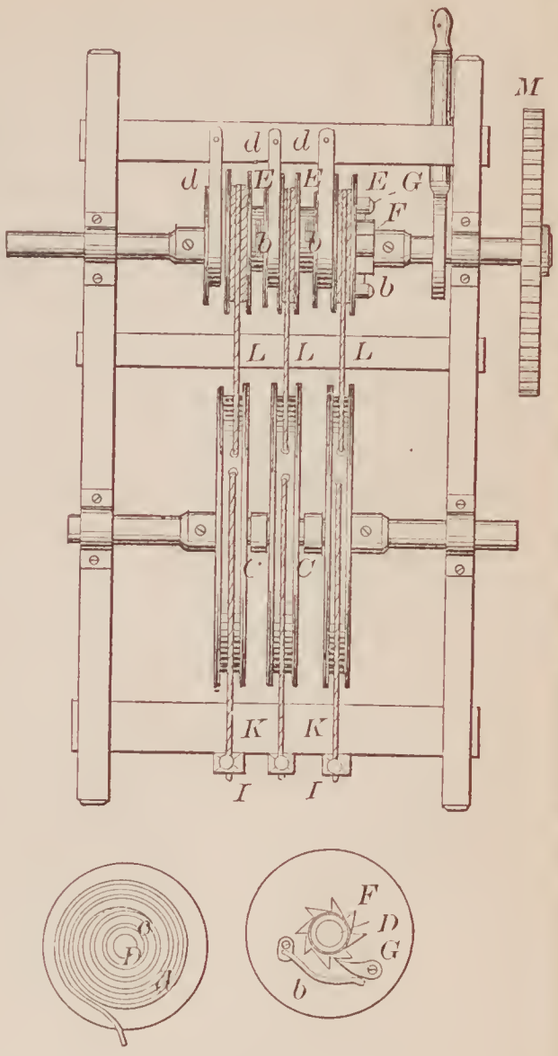
77320—J. Pusey—*Toy.*



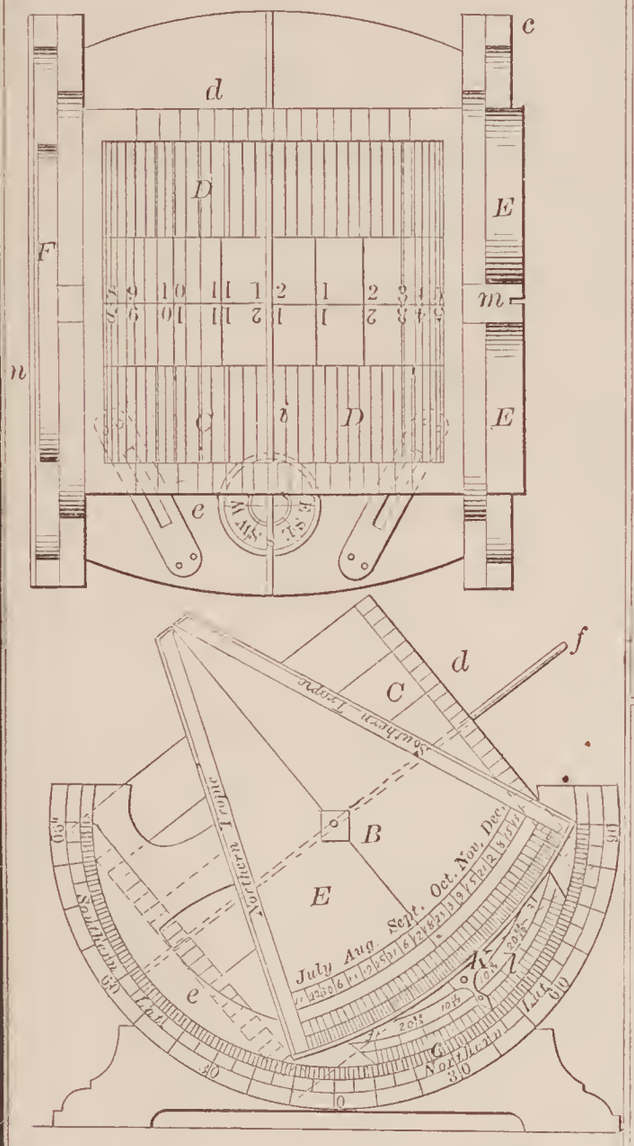
77321—A. Rank—*Platform Bridge for Railroad Cars.*

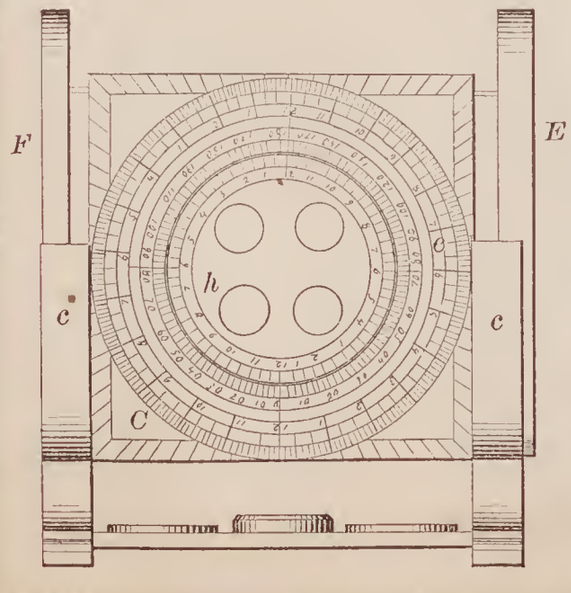


77322—G. Rich—*Mechanical Movement.*

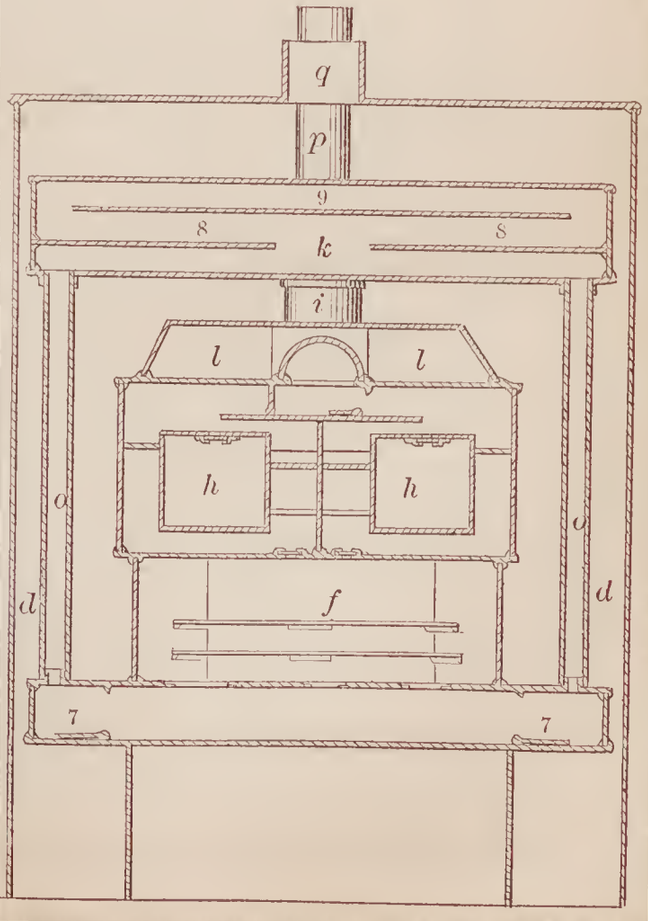


77324—C. F. L. Risch—*Heliometer.*

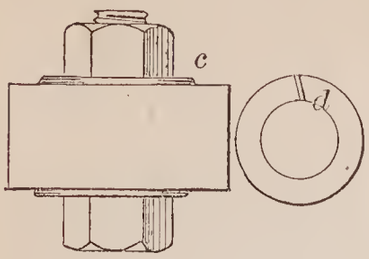




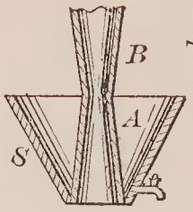
77325—A. K. Sanders—*Heater Range.*



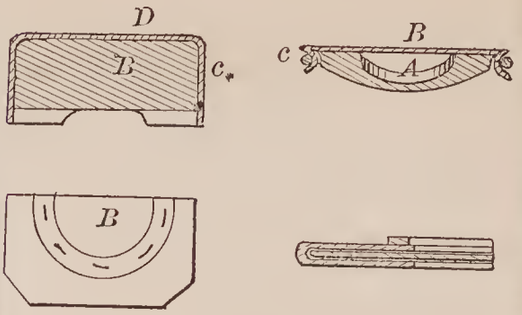
77326—T. Shaw—*Washer.*



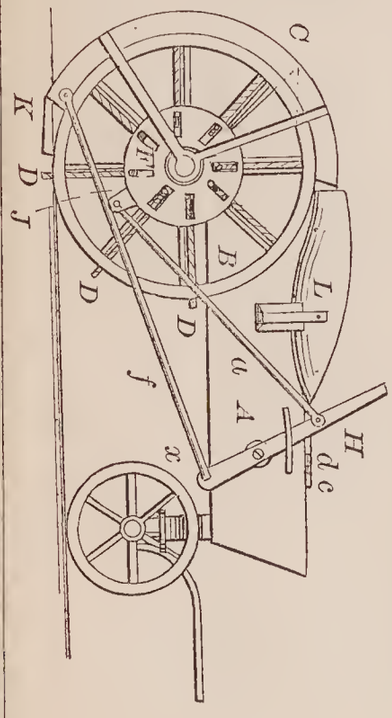
77327—M. A. Shepard—*Boiler upon Stove Pipes.*

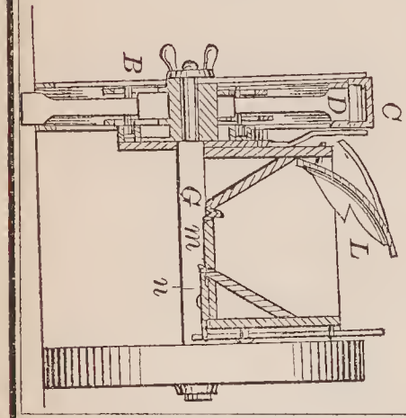


77328—P., J. & F. Slevin—*Whistle.*

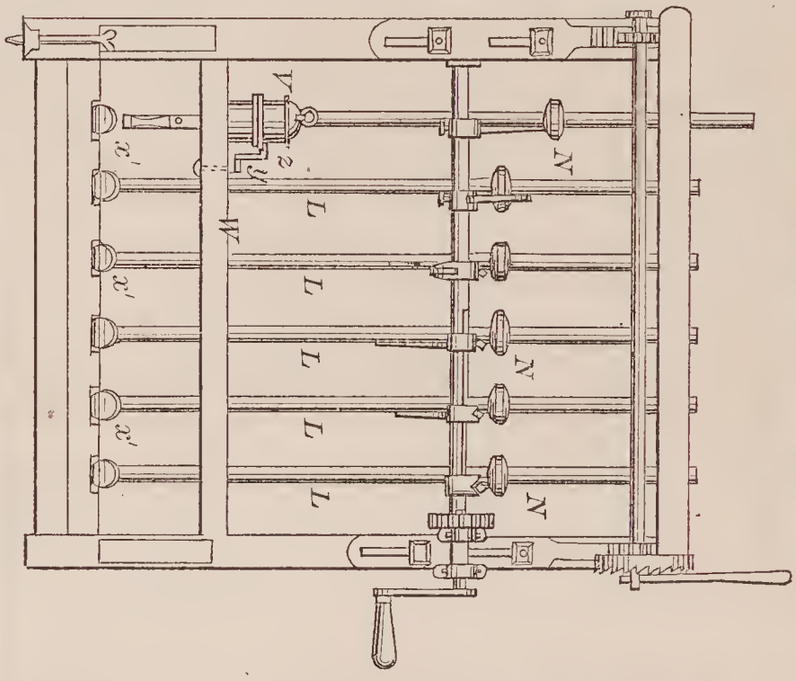


77329—J. P. Smith—*Excavating Vehicle.*

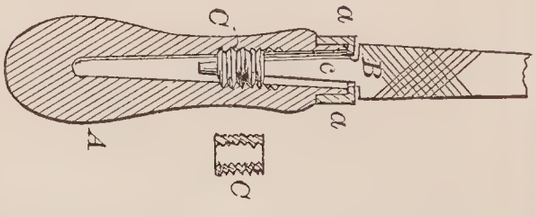




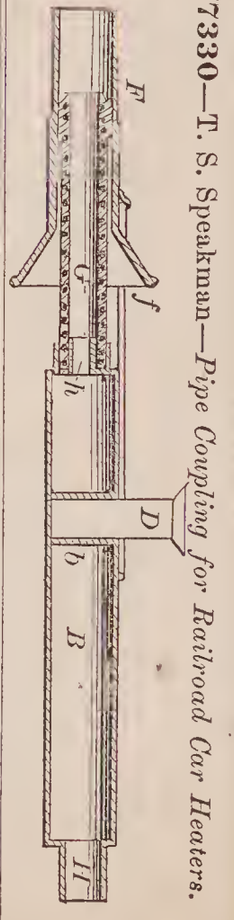
77330—Southard & Hobson—*Stone Drilling Machine.*



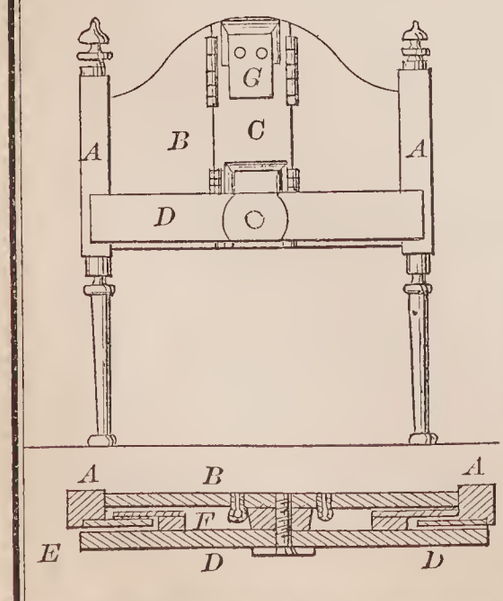
77332—H. C. Storrs—*File Handle.*



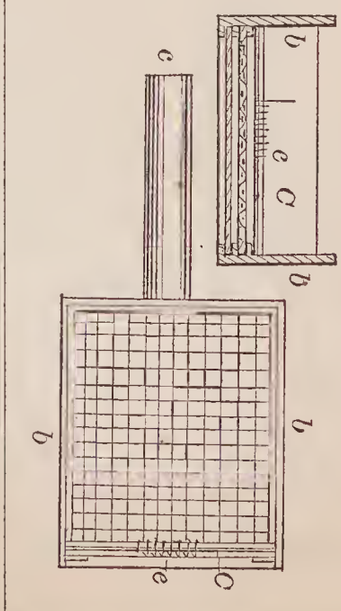
77330—T. S. Speakman—*Pipe Coupling for Railroad Car Heaters.*



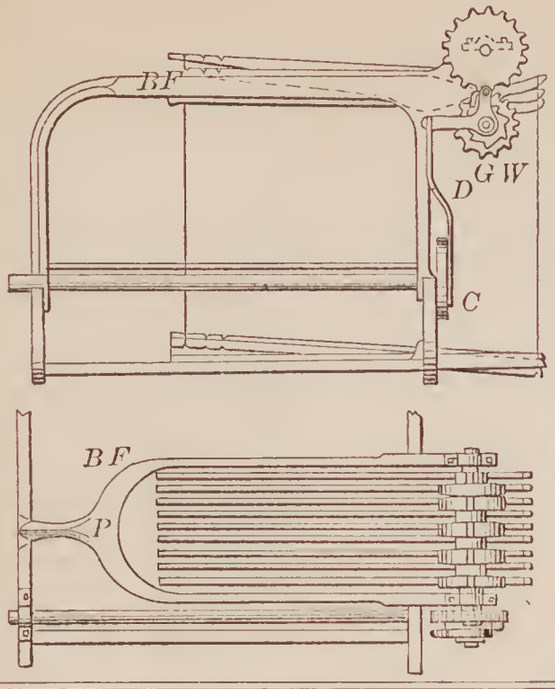
77334—R. S. Titcomb—*Folding Bedstead and Crib.*



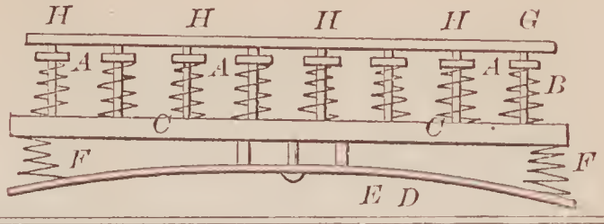
77333—A. Thayer—*Screen and Shovel.*



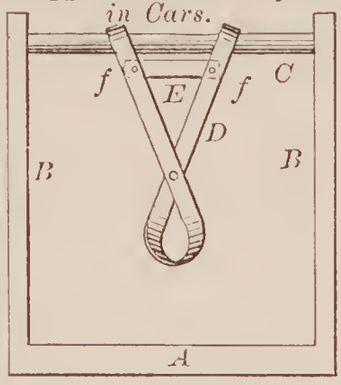
77335—F. Traub—*Operating Harness in Looms.*



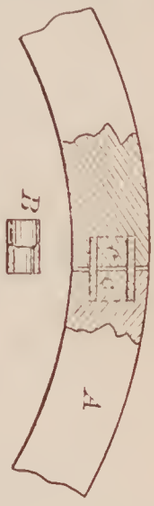
77339—C. Walker—*Bed Bottom.*



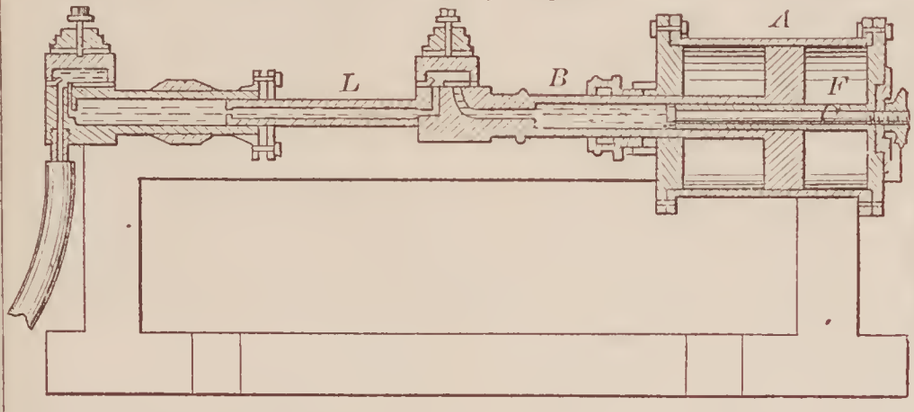
77338—H. S. Vrooman—*Support for Passengers in Cars.*



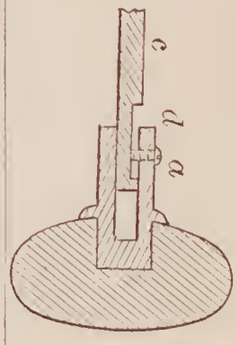
77337—E. D. Tyler—*Dowel Pin.*



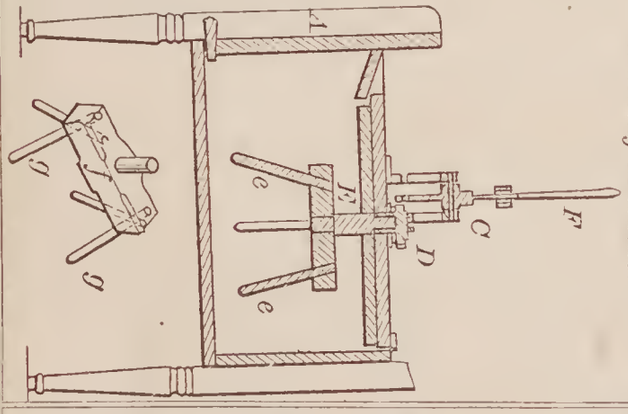
77336—J. Tufts—*Steam Pumping Engine.*



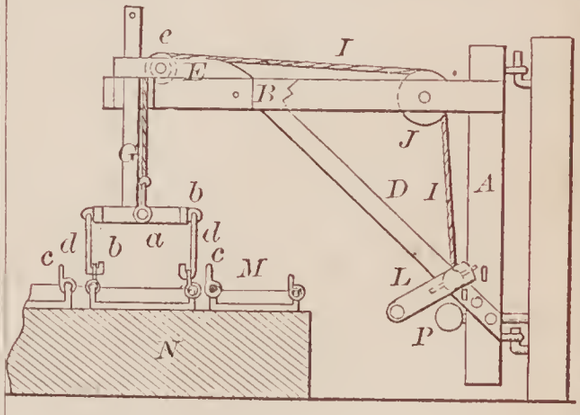
77344—W. H. Andrews—*Attaching Door Knobs to Spindles.*



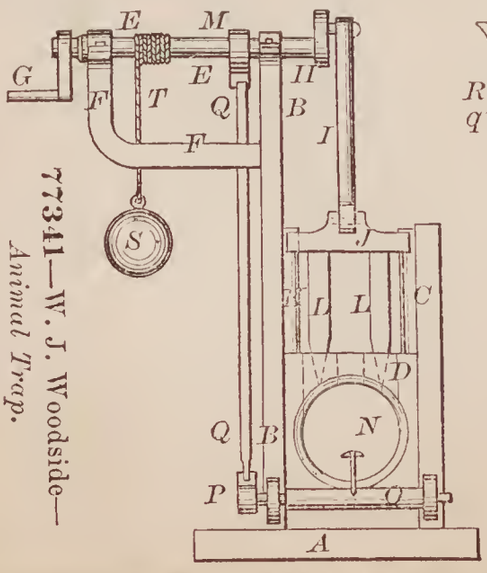
77340—J. T. Wheeler—*Washing Machine.*

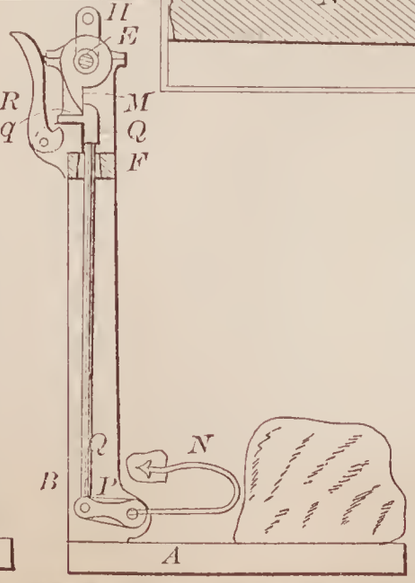


77342—D. Young—*Sugar Pan Derriek.*

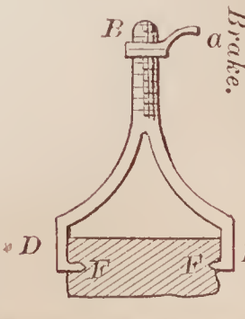


77341—W. J. Woodside—*Animal Trap.*

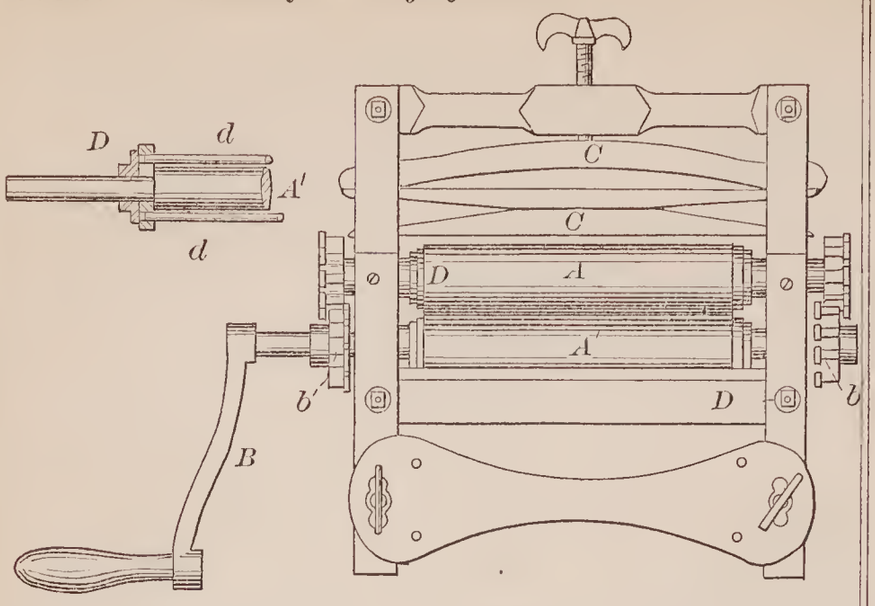




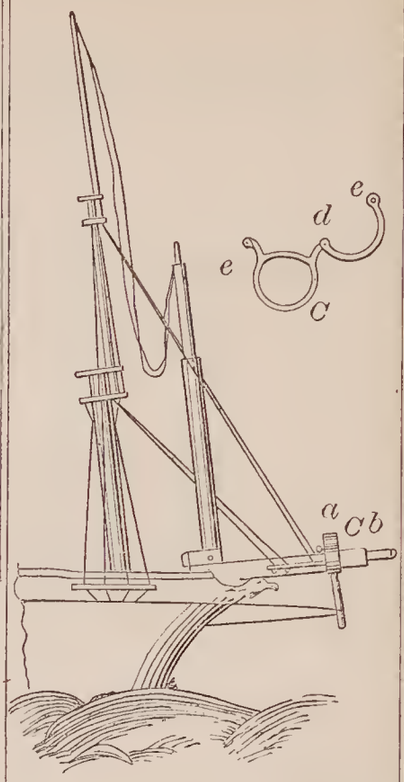
77345—D. M. Bailey—*Wagon Brake.*



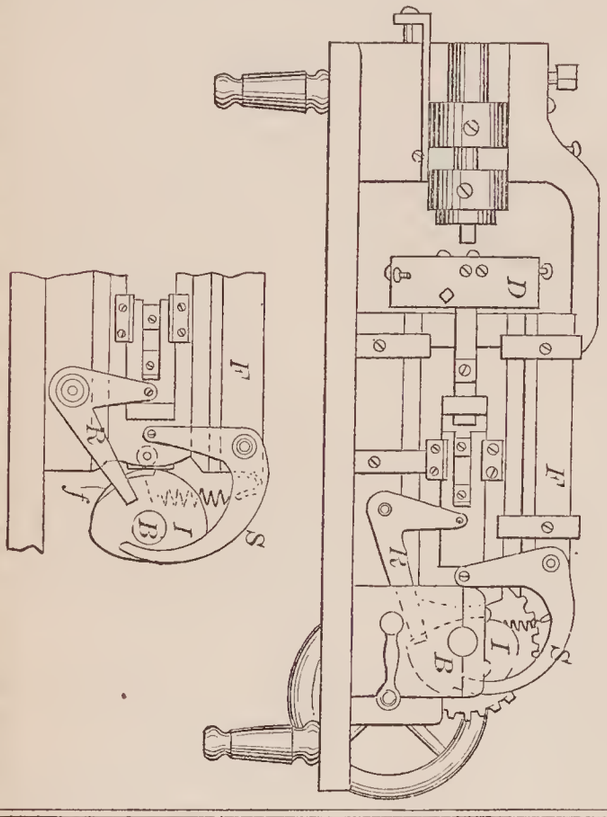
77346—S. A. Bailey—*Wringing Machine.*



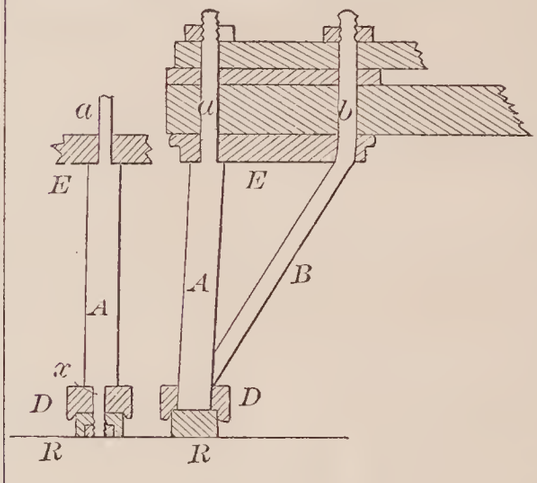
77348—W. E. Beman—*Jib Boom.*



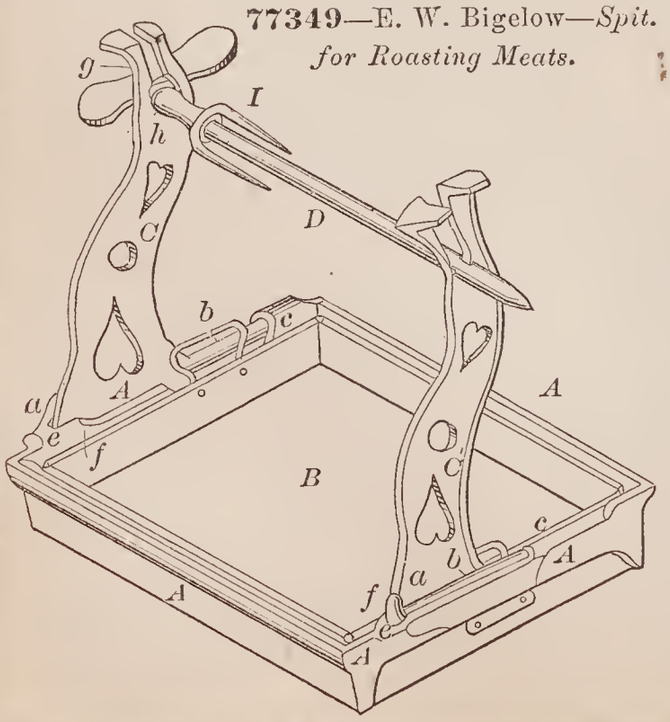
77347—A. B. Bean—*Nut Machine.*



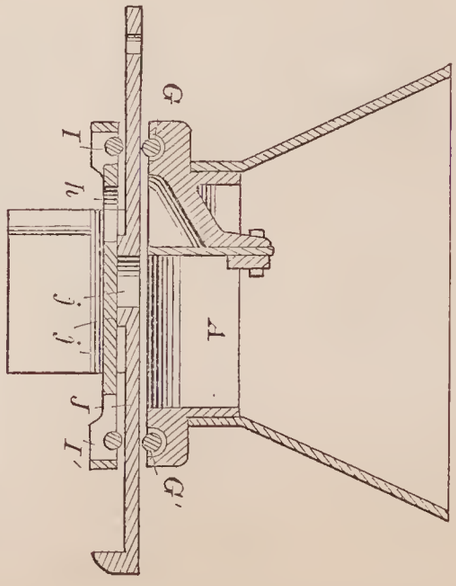
77350—J. W. Blake—*Sled Knee.*



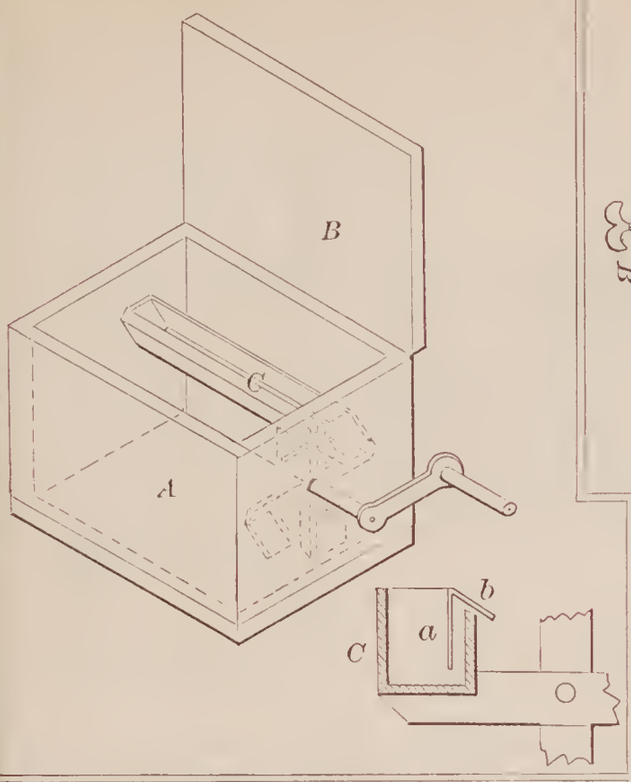
77349—E. W. Bigelow—*Spit. for Roasting Meats.*



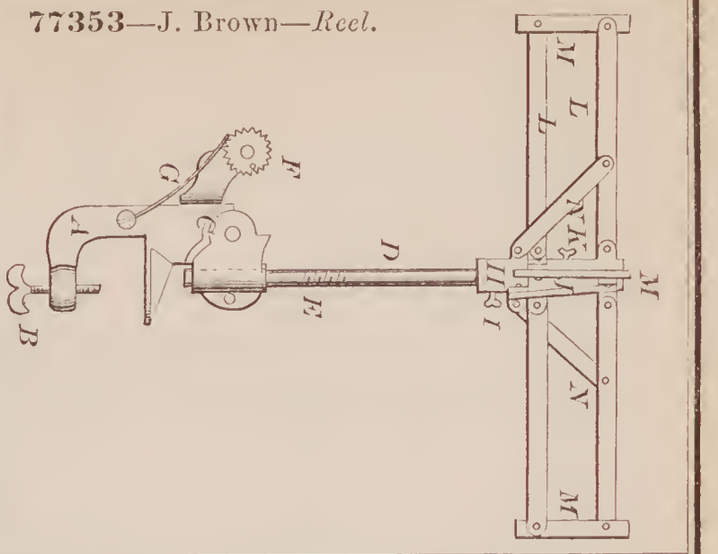
77351—J. M. Blessing—*Corn Planter.*



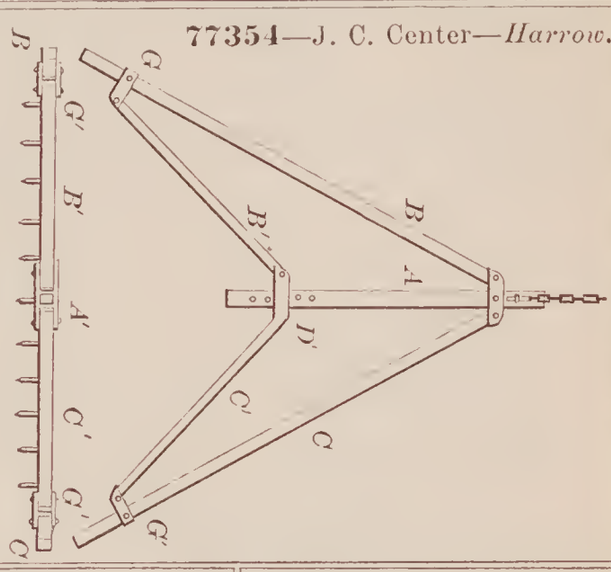
77352—C. H. Bradley—*Churn.*



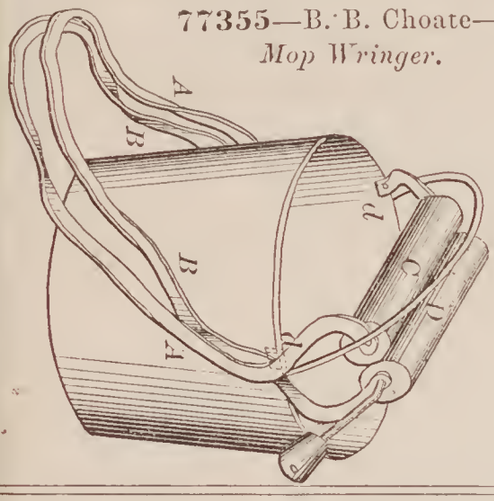
77353—J. Brown—*Reel.*



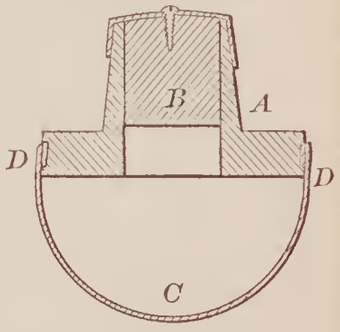
77354—J. C. Center—*Harrow.*



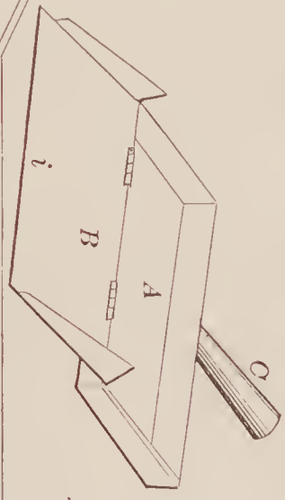
77355—B. B. Choate—*Mop Wringer.*



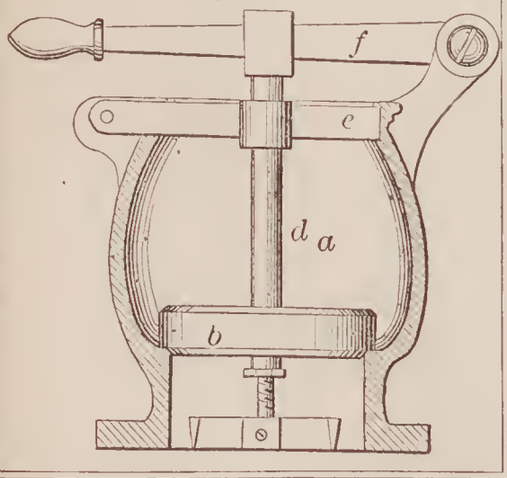
77356—W. B. Coates—*Starching Apparatus.*



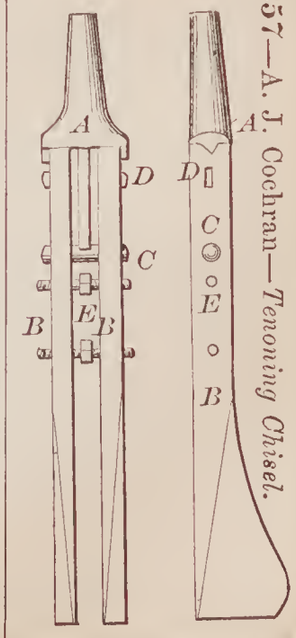
77358—D. C. Colby—*Dust Pan.*



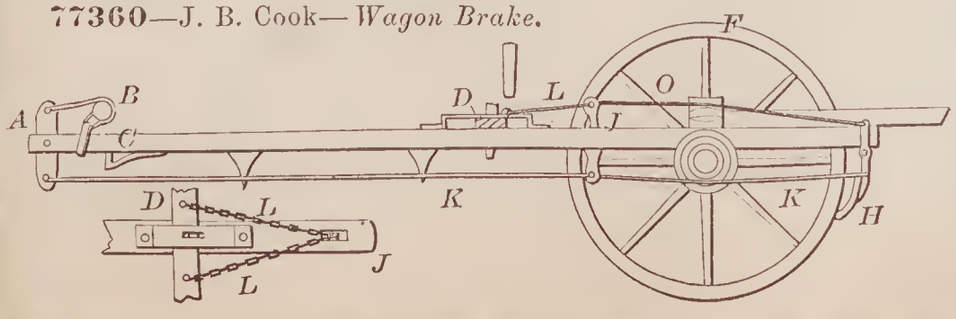
77359—L. Colwell—*Sugar Pan Valve.*



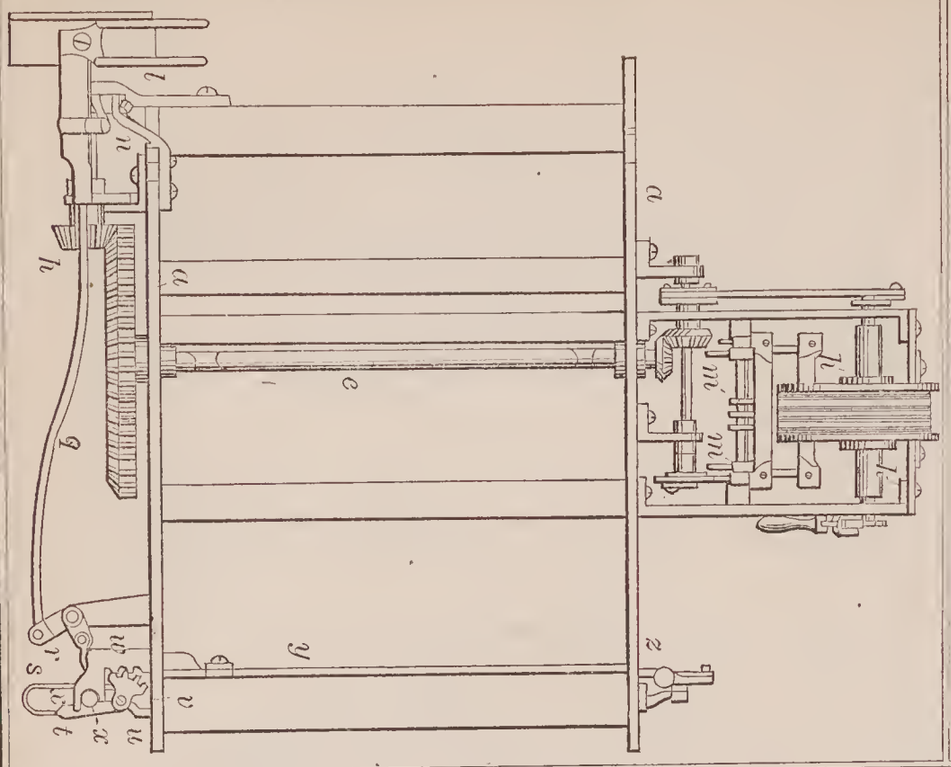
77357—A. J. Cochran—*Tenoning Chisel.*



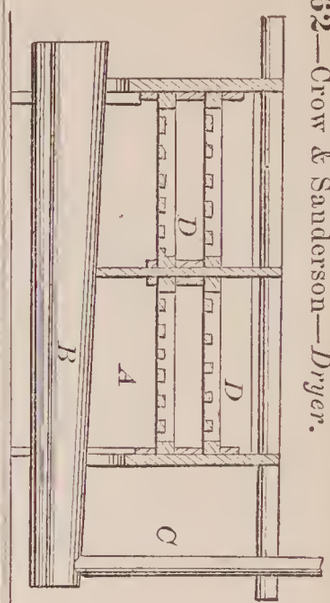
77360—J. B. Cook—*Wagon Brake.*



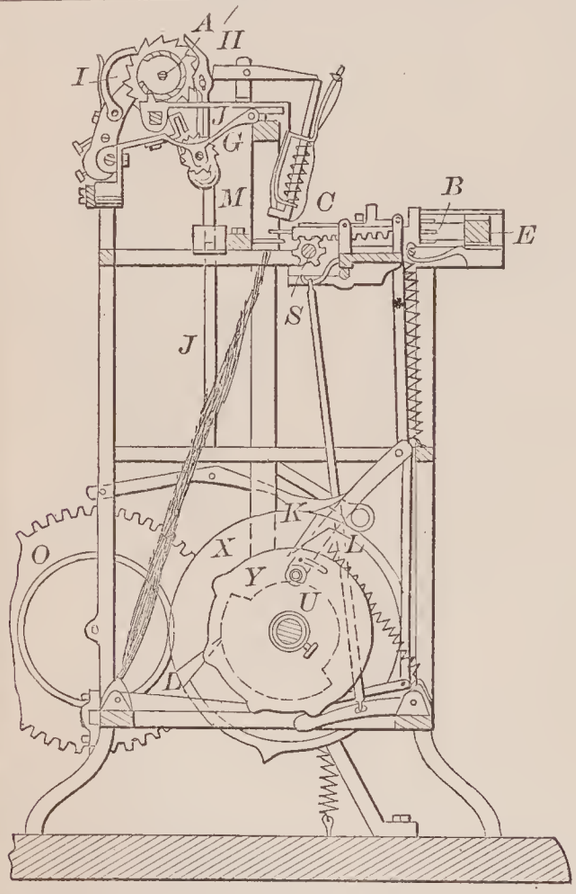
77361—G. Crompton—*Loom.*

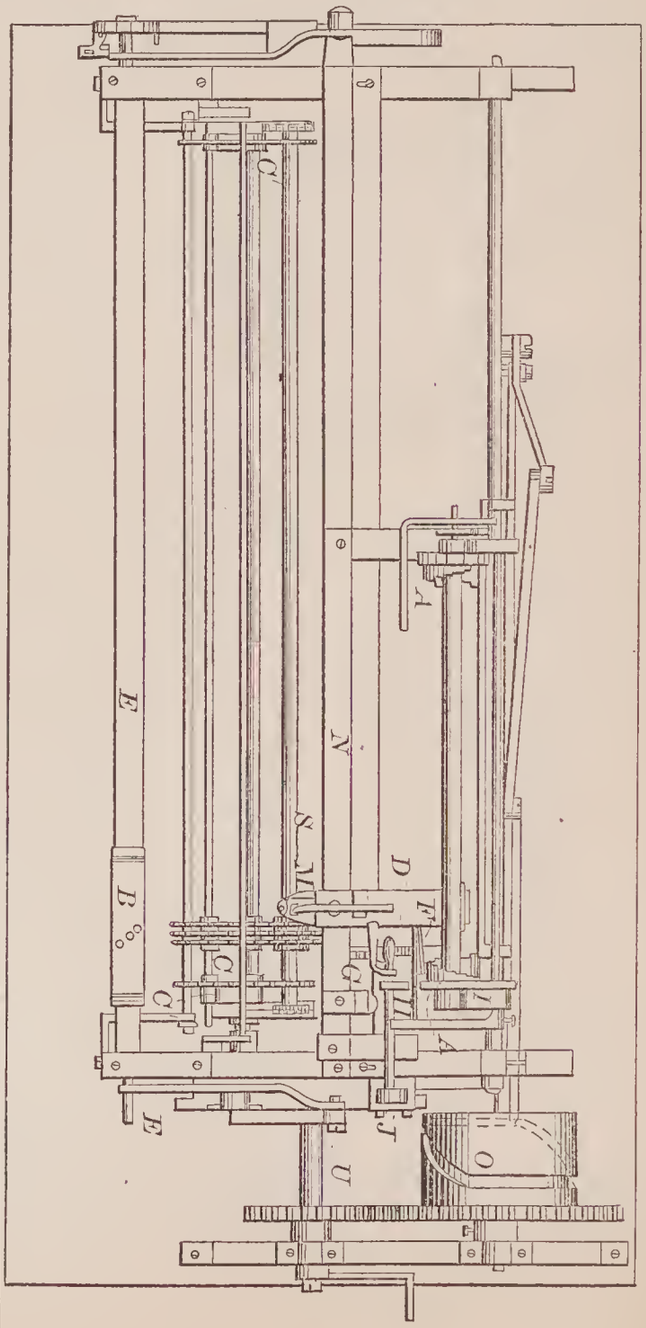


77362—Crow & Sanderson—*Dryer.*

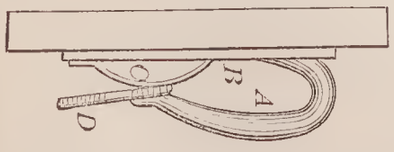


77363—J. Dalton—*Knitting Machine.*

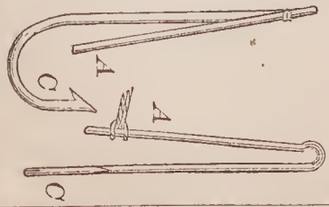




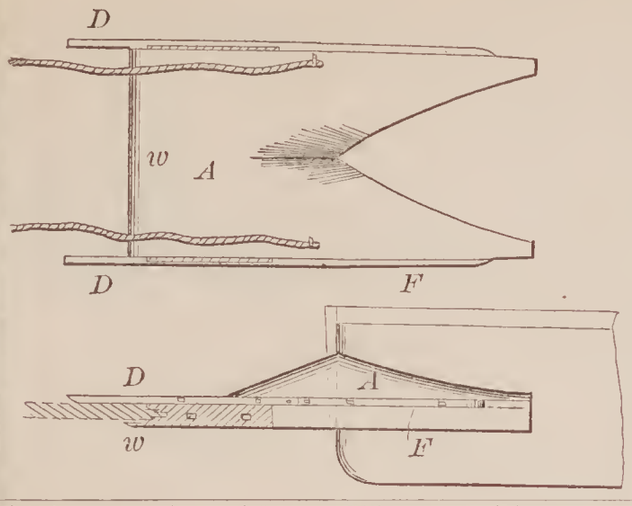
77364—F. Deming—*Horse Hitching Device.*



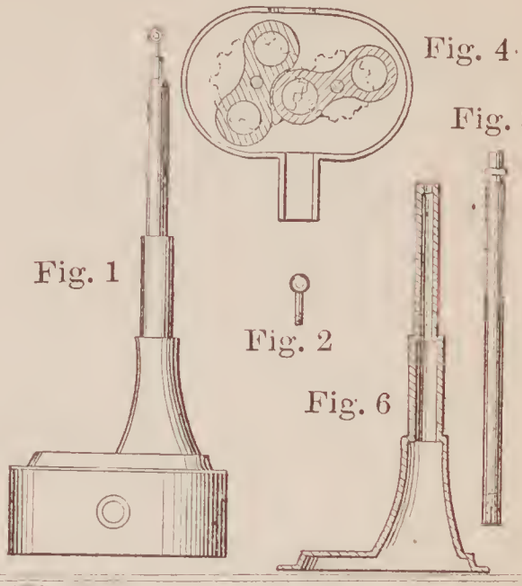
77365—R. A. Fish—*Fish Hook.*



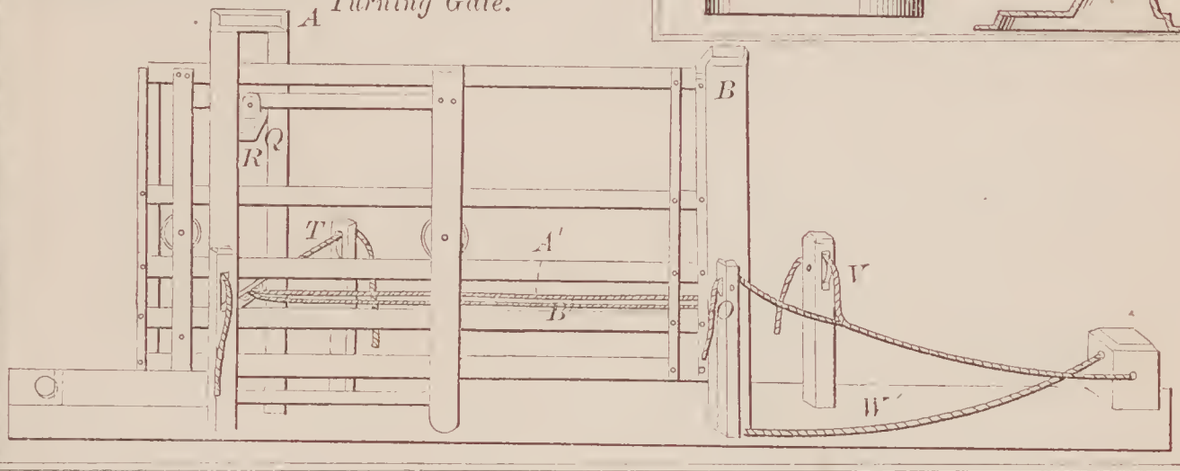
77366—A. Flannigain—*Ice Breaker.*



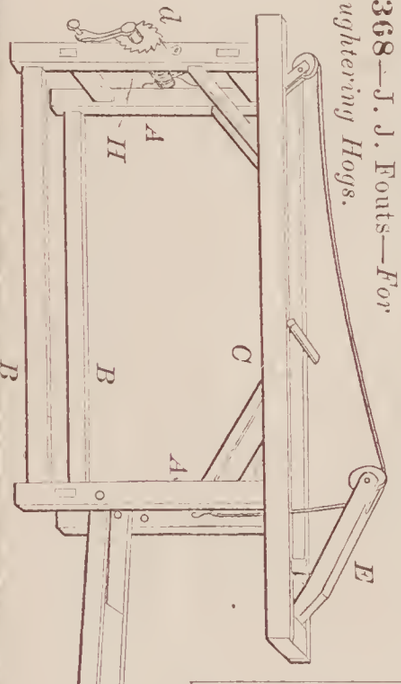
77370—G. F. Green—*Pneumatic Tooth Burr and Drill.*

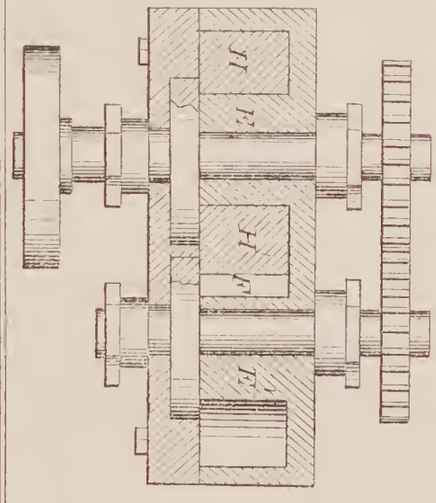


77367—R. Fleming—*Double, Sliding or Turning Gate.*

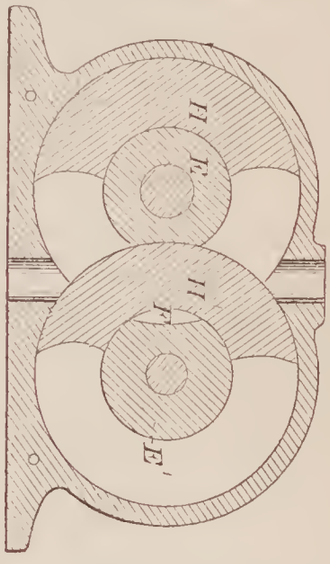


77368—J. J. Fouts—*For Slaughtering Hogs.*

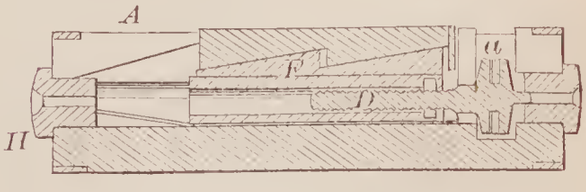




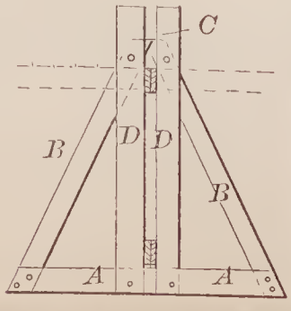
77373—D. D. Hardy—*Rotary Engine.*



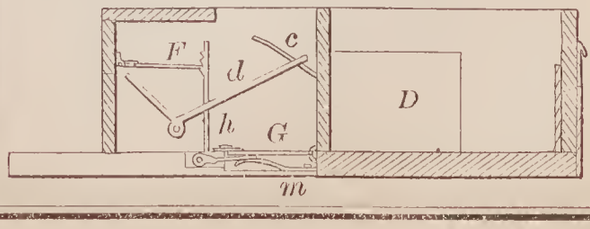
77369—M. Gardner, Sr.—*Mandrel.*



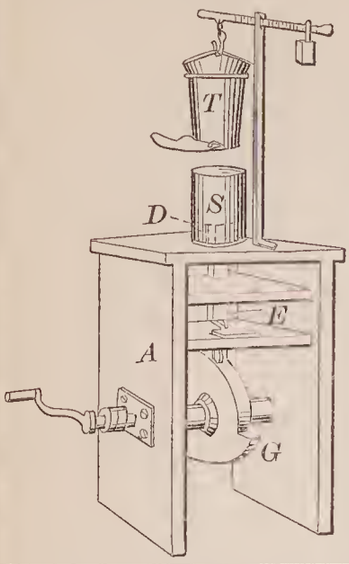
77371—C. S. S. Griffing—*Portable Fence.*



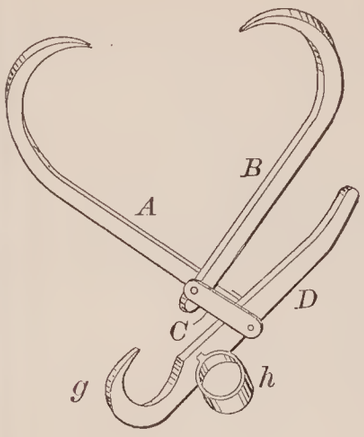
77372—B. F. Hancock—*Animal Trap.*



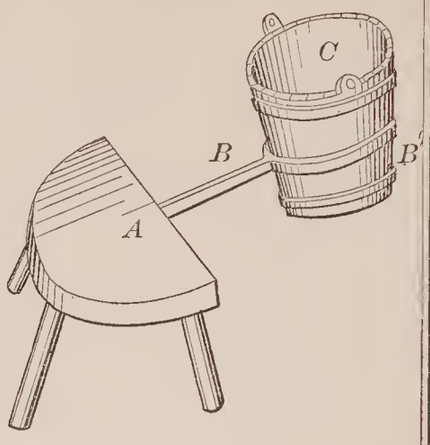
77374—S. Hewit—*Flour Packer.*



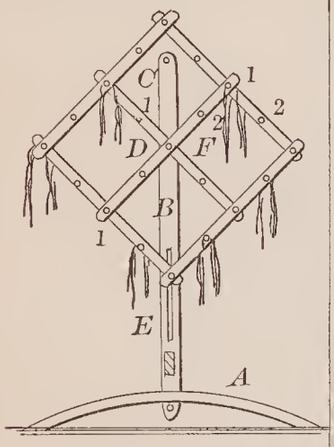
77375—Hicks & Doty—*Rafter Hook for Hoisting.*



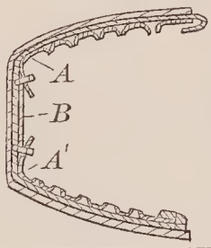
77376—L. B. Hoit—*Milking Stool and Pail Holder.*



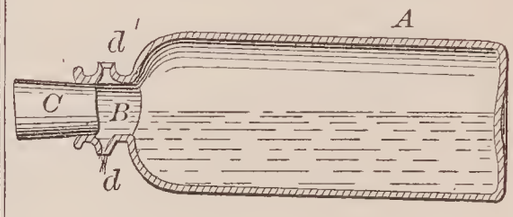
77377—W. W. Horton—*Hat and Dish Rack.*



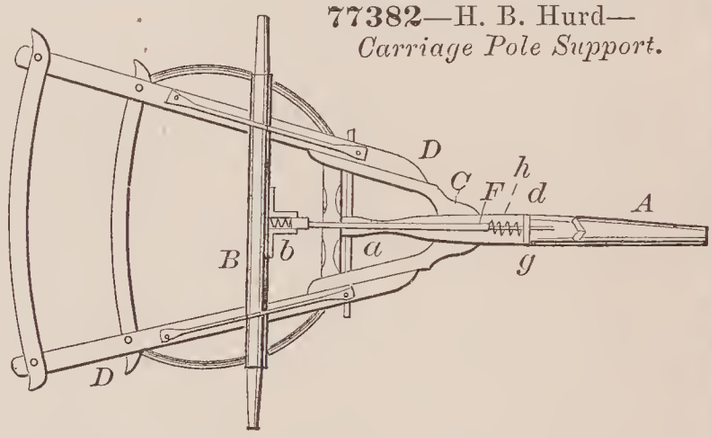
77380—J. Humphery *Sad Iron Holder.*



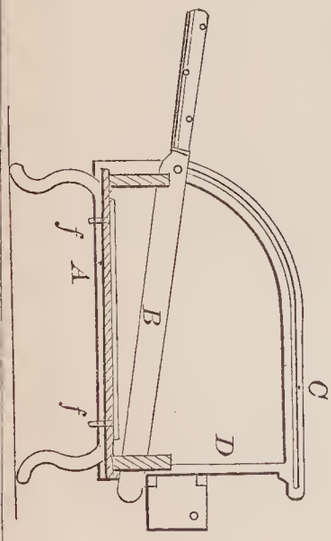
77378—W. S. How—*Vial.*



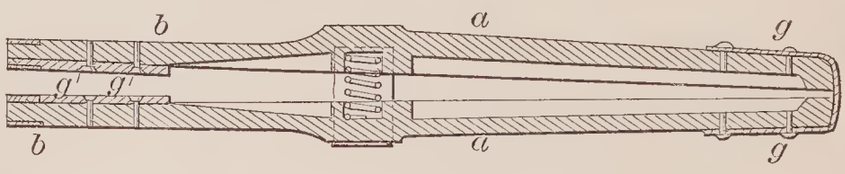
77382—H. B. Hurd—*Carriage Pole Support.*



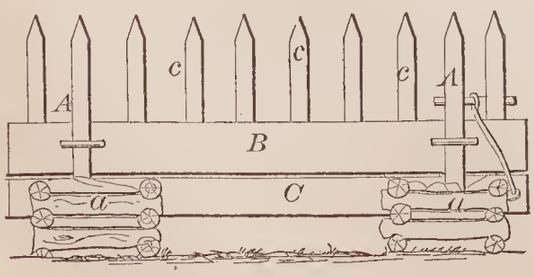
77383—G. L. Jones—*Bread Cutter.*



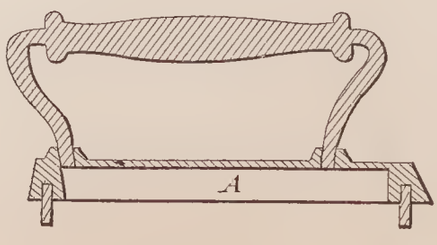
77385—J. L. Knick—*For Extracting Weeds.*



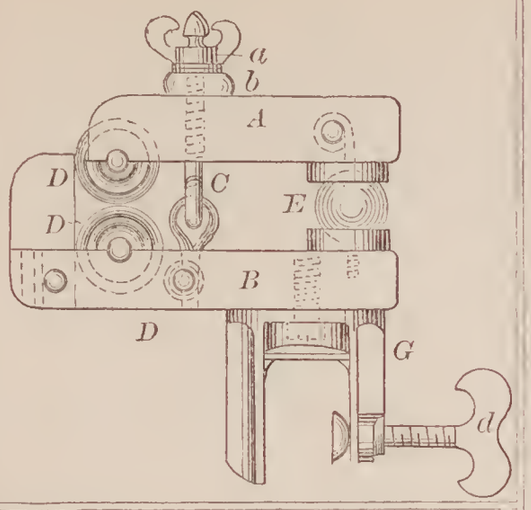
77384—H. A. Kephart—*Flood Gate.*



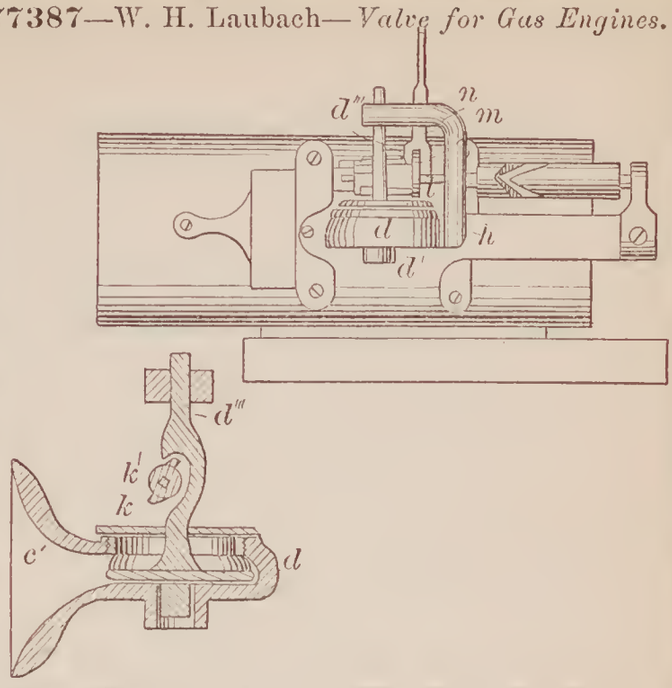
77379—A. Y. Hubbell—*Sad Iron.*



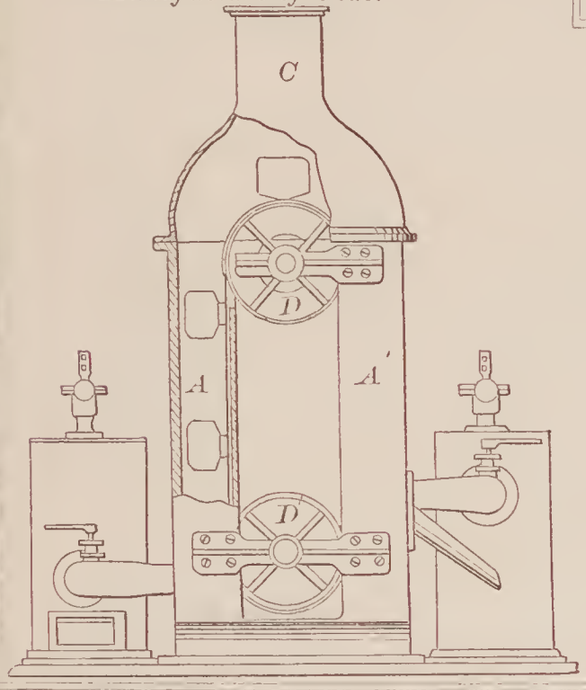
77386—Lapham & Pratt—*Clothes Wringer.*



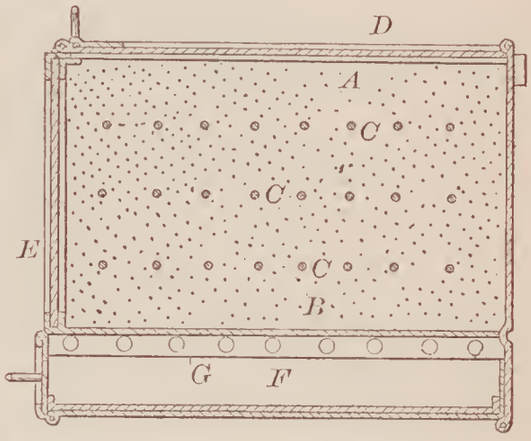
77387—W. H. Laubach—*Valve for Gas Engines.*



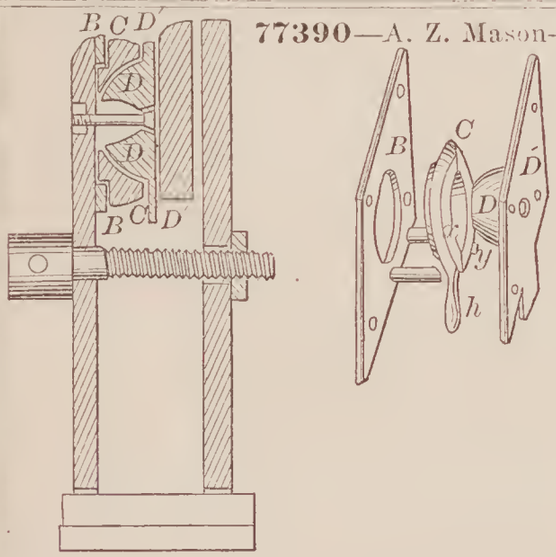
77388—J. A. & R. Lighthall—*Manufacture of Glue.*



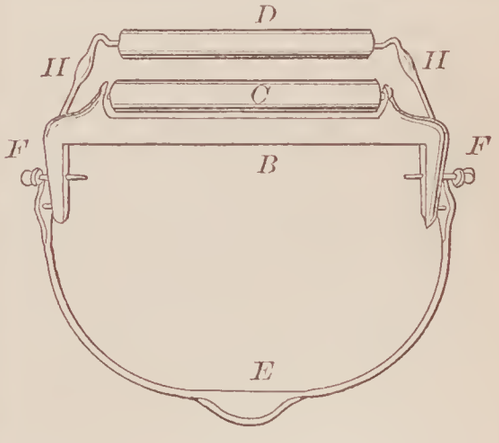
77389—W. H. Lockwood—*Ventilating Show Case.*



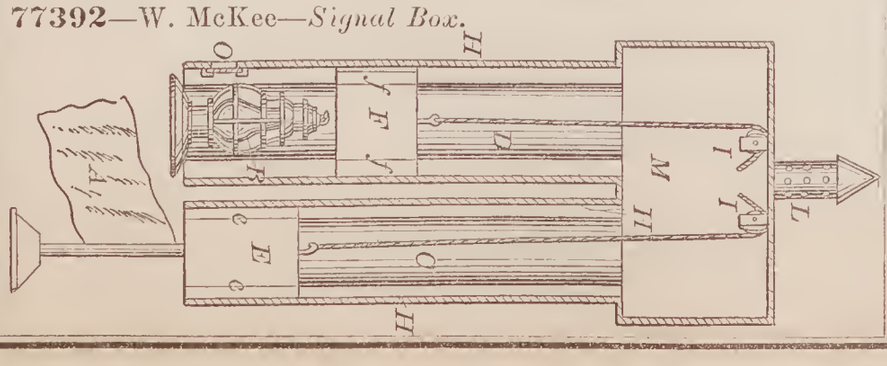
77390—A. Z. Mason—*Vise.*



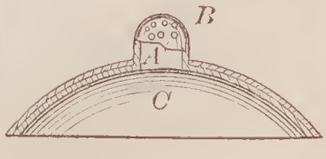
77391—May & Colton—*Mop Wringer.*



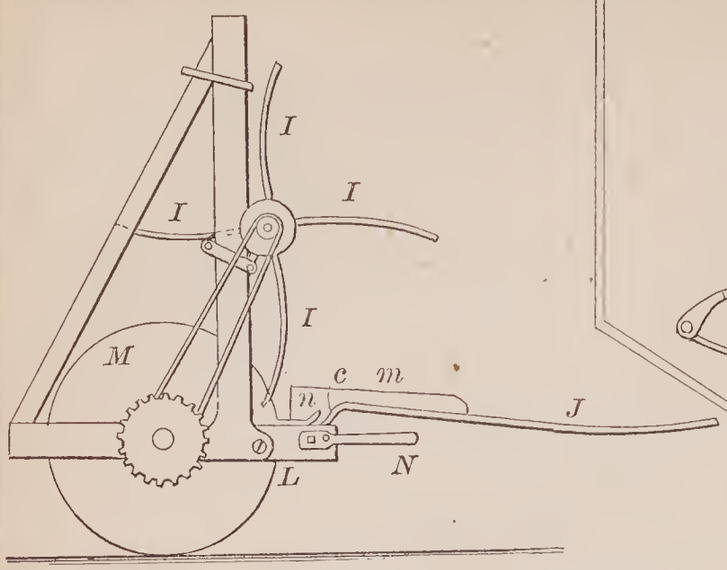
77392—W. McKee—*Signal Box.*



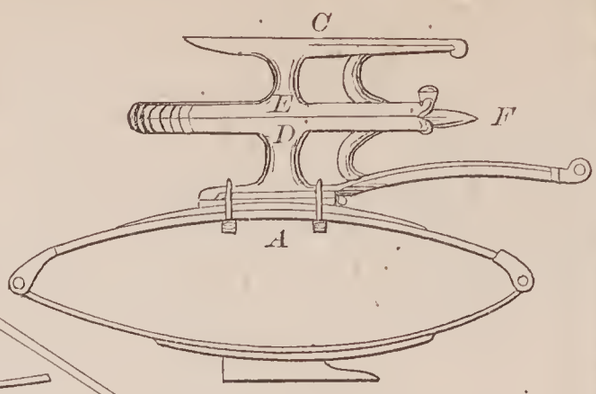
77393—T. McLaughlin—*Nipple Shield.*



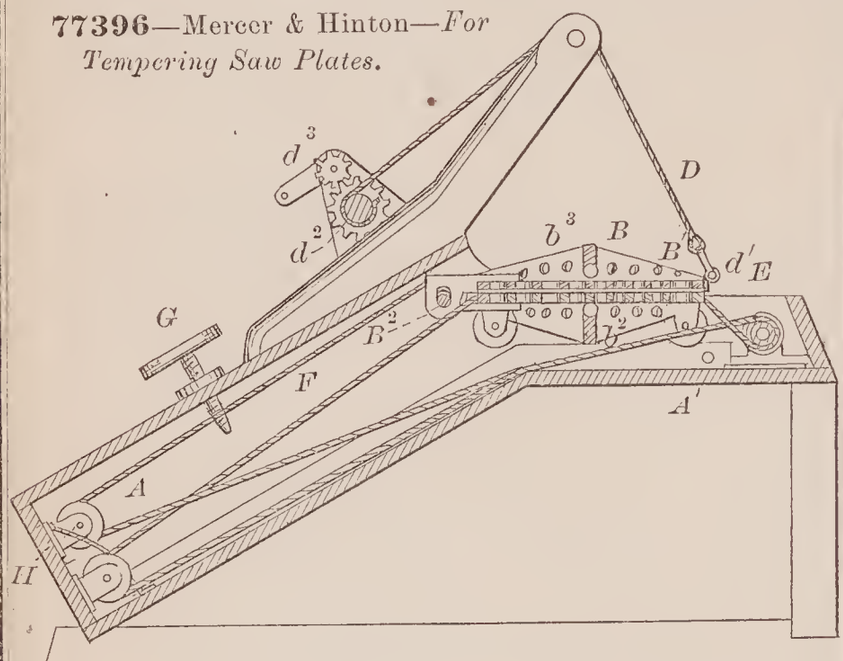
77394—G. Meader—*Corn Harvester.*



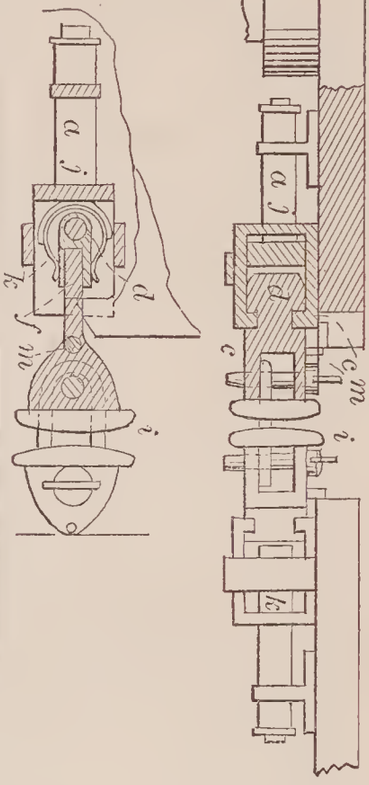
77395—J. J. D. Meincke—*Forward Gear for Carriages.*

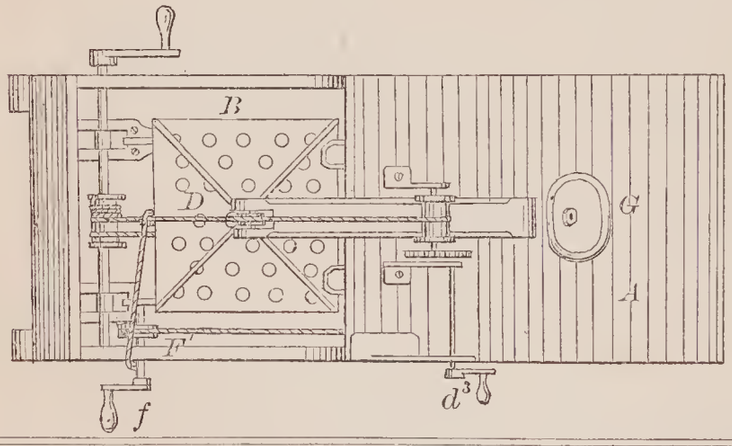


77396—Mercer & Hinton—*For Tempering Saw Plates.*

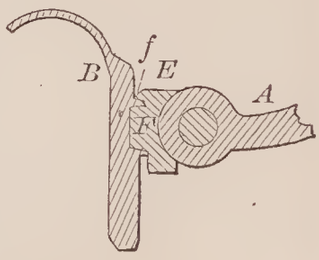


77398—T. M. Moore—*Car Coupling.*

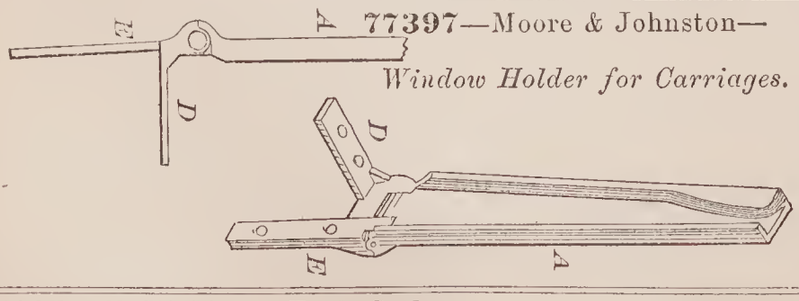




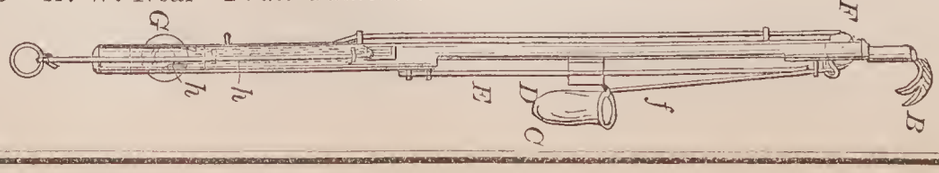
77399—F. B. Morse—*Packing for Carriage Shackles.*



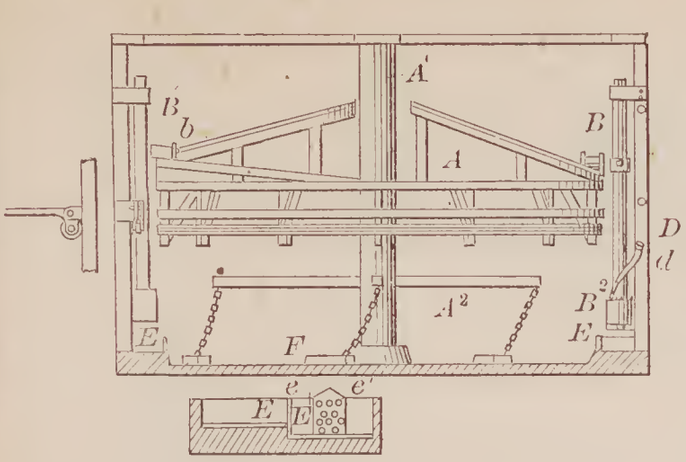
77397—Moore & Johnston—*Window Holder for Carriages.*



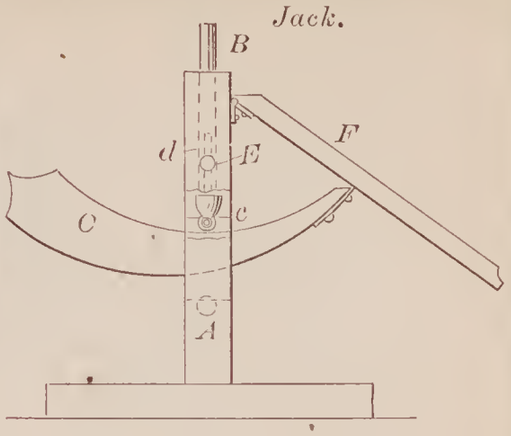
77400—H. W. Neal—*Fruit Gatherer.*



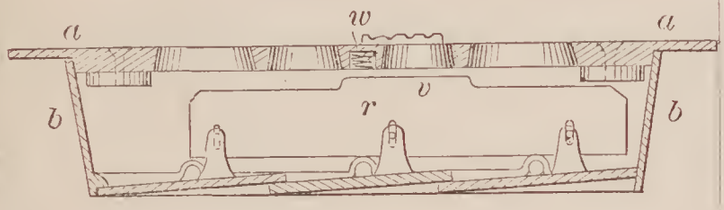
77401—P. M. Papin—*Quartz Stamp Mill.*



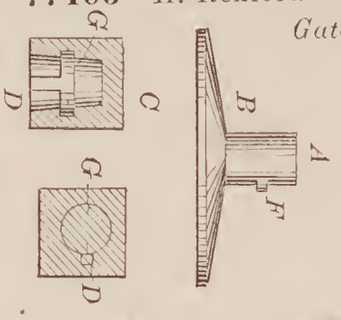
77406—Robertson & Collins—*Lifting Jack.*



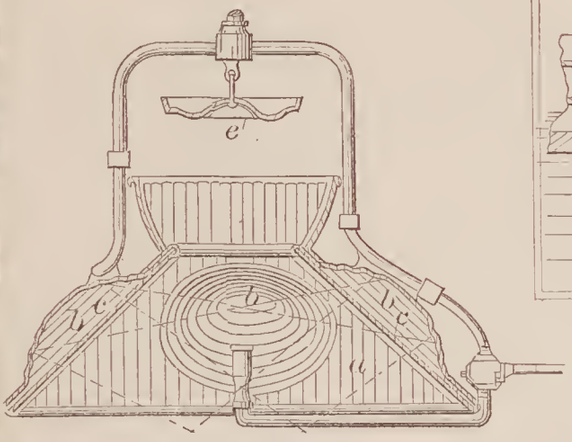
77403—H. M. Phinney—*Register.*



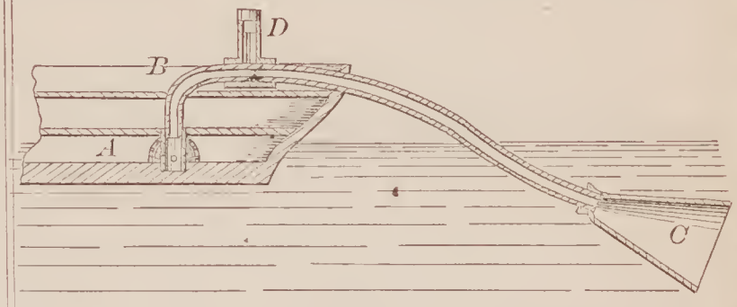
77405—H. Rexford—*Canal Lock Gate Step.*



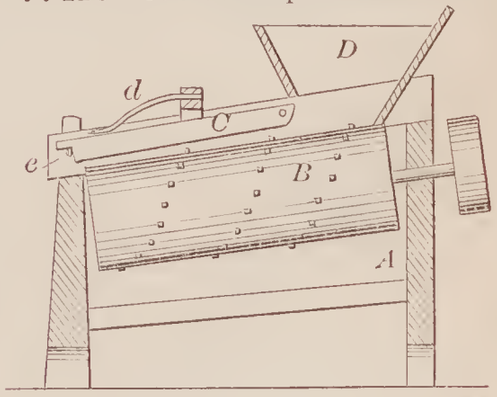
77408—Schmidlin & Driscoll—*Reflector.*



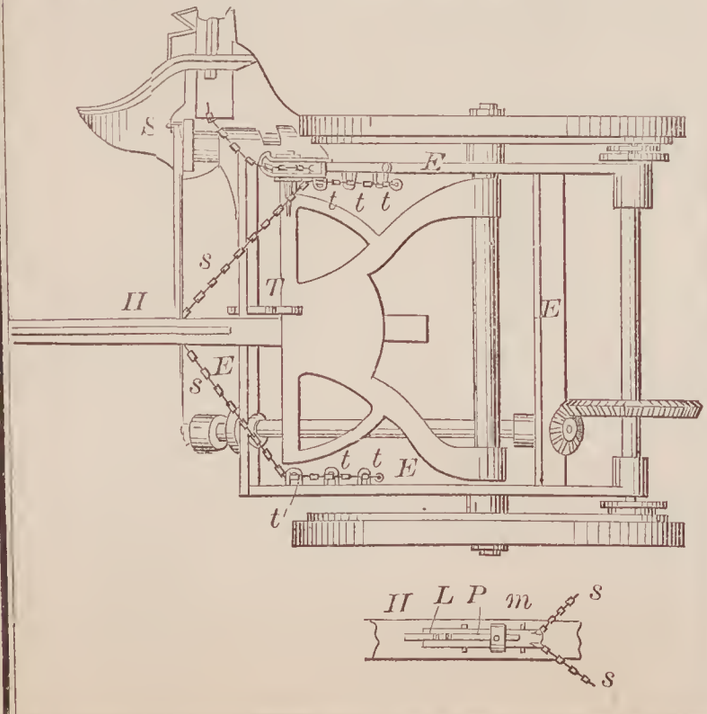
77402—P. Pardee—*For Discharging Bilge Water.*



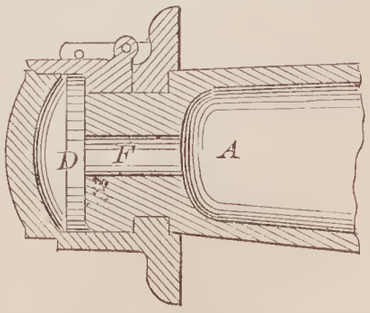
77410—J. H. Sharp—*Corn Sheller.*



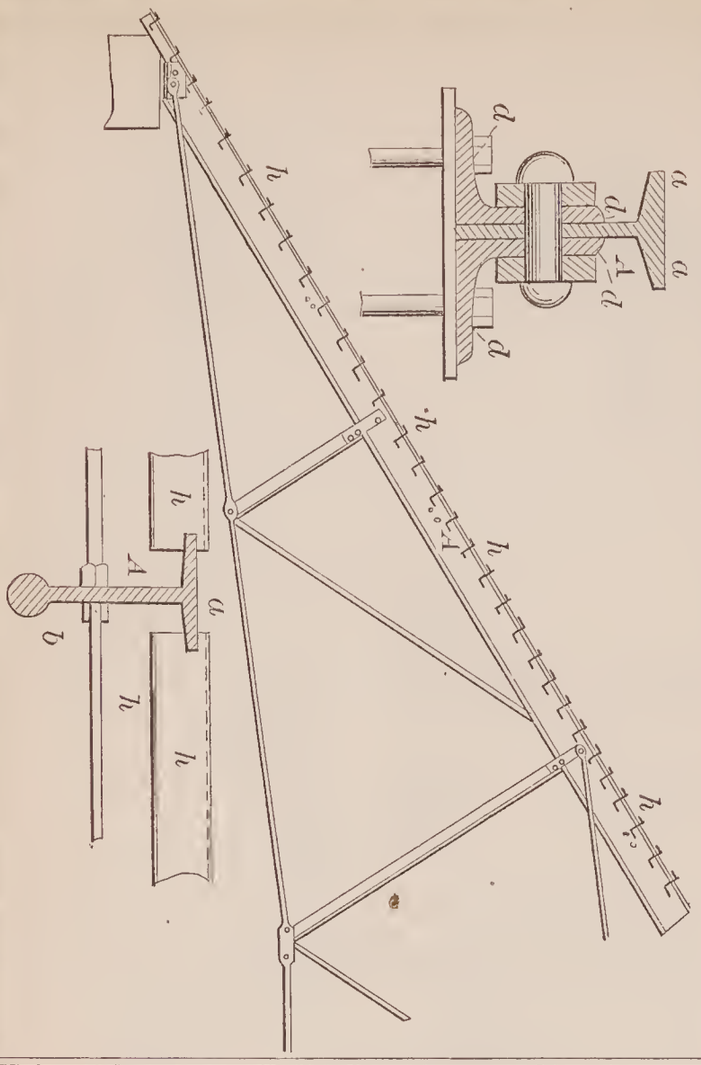
77407—H. J Ruggles—*Mowing Machine.*



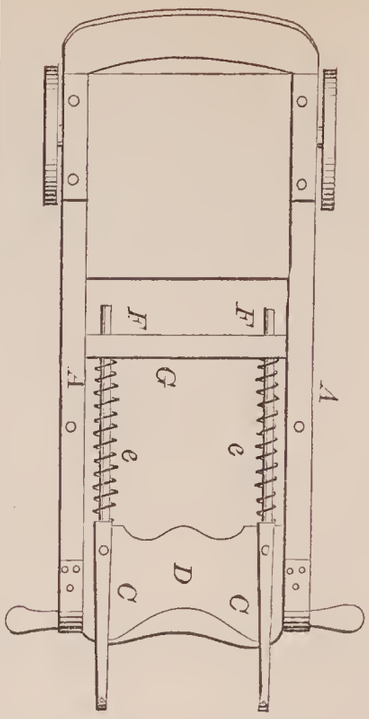
77411—J. R. Smith—*Lock Nut for Axle and Skein Boxes.*



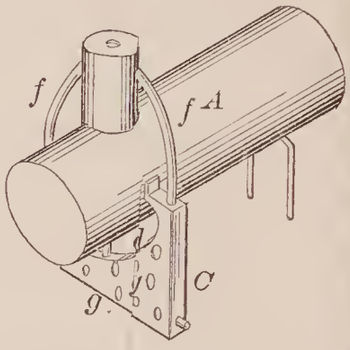
77409—G. H. Sellers—*Wrought Iron Roof Truss.*



77412—G. & J. Smoker—*Hand Truck and Sack Holder.*

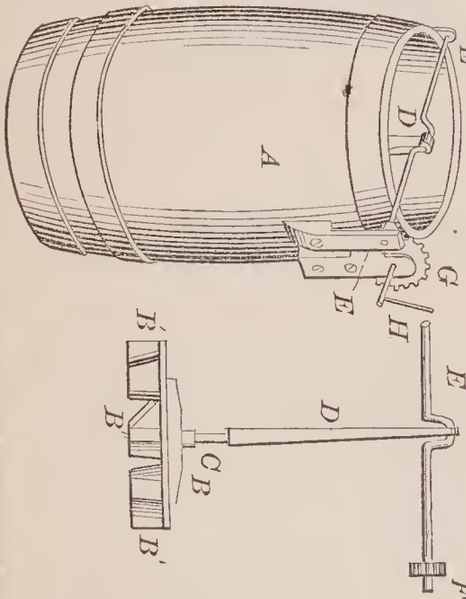


77414—J. Sutliff—*Steam Generator.*

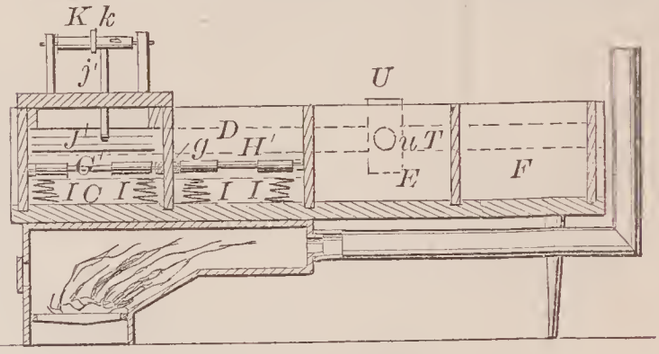


77416—E. J. Toof—*Comb Cleaner.*

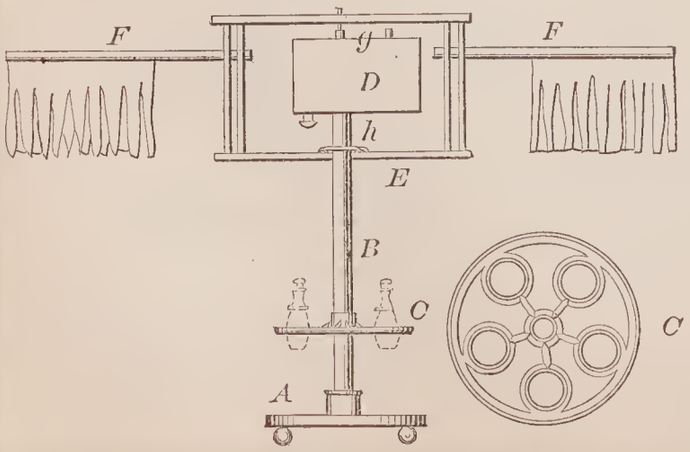
77417—N. Trowbridge—*Washing Machine.*

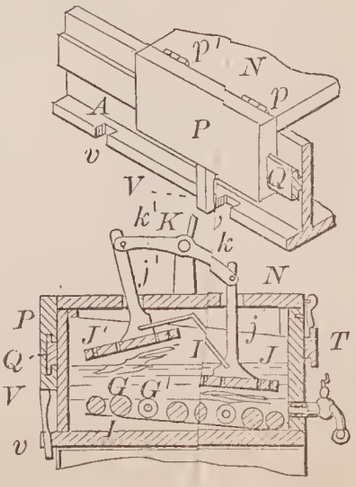


77413—Stanford & Scoville—*Washing Machine.*

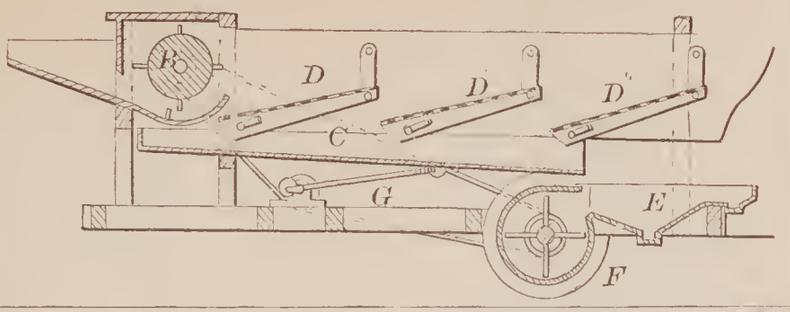


77415—Tillman & Good—*Table Fan and Caster Stand.*

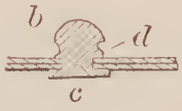




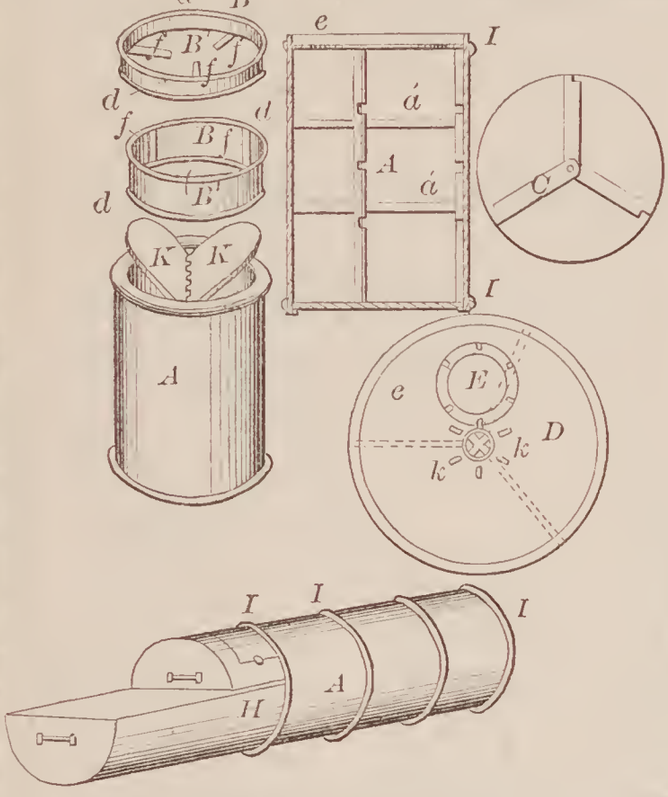
77419—J. S. Upton—*Grain Separator.*



77421—H. S. Walcott—*Boot and Shoe Stud.*



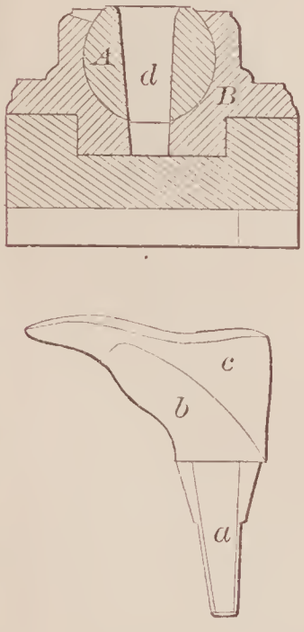
77423—R. Weaver—*Trunk.*



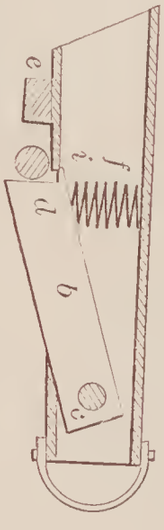
77424—W. N. Weeden—*Tug Fastening.*

77422—A. Warth—*Pen Holder.*

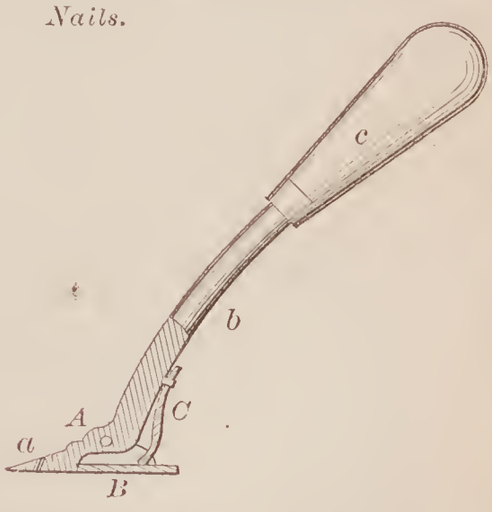
77425—G. M. Wells—*Last Holder or Jack.*



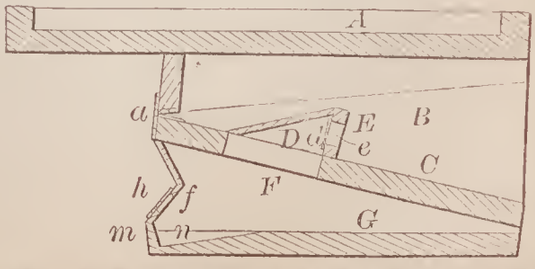
77426—R. C. Whitehouse—*Clevis.*



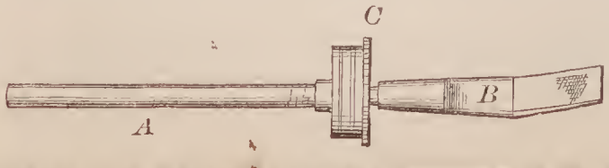
77427—E. P. Whitney—*For Drawing Nails.*



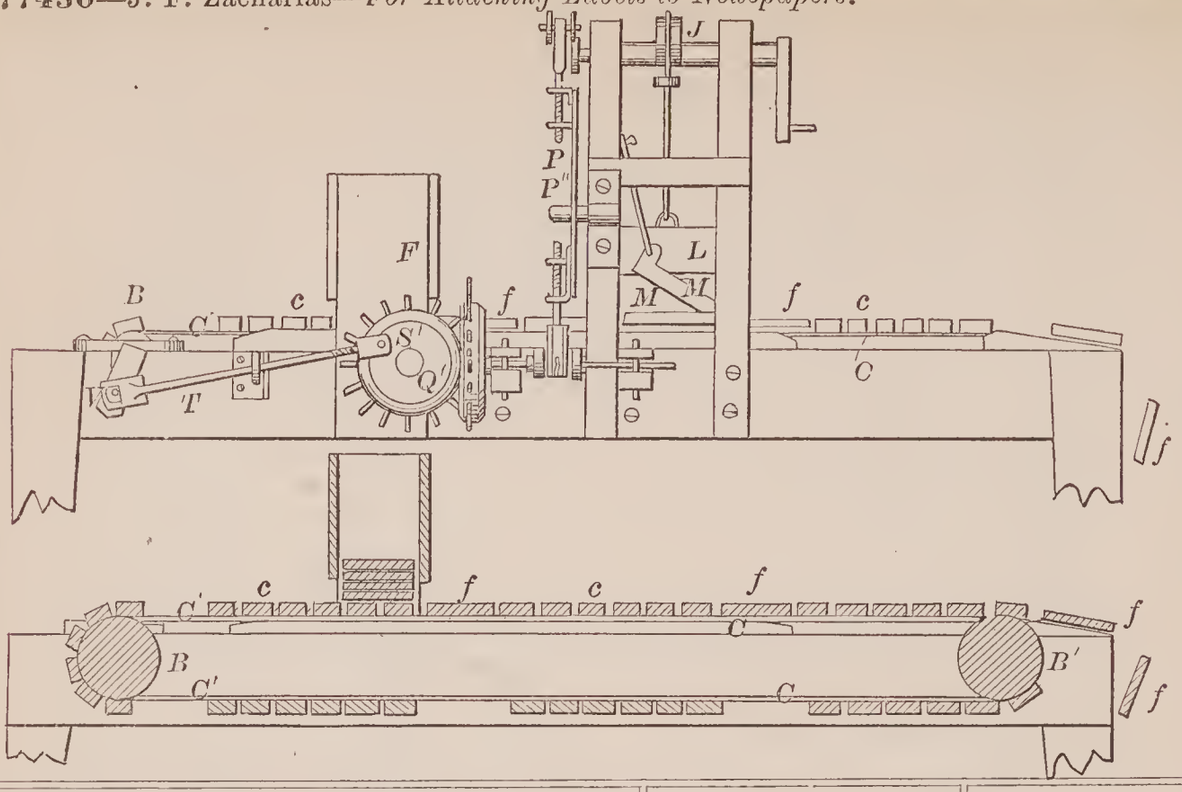
77428—A. W. Wilcox—*Bellows for Reed Musical Instruments.*



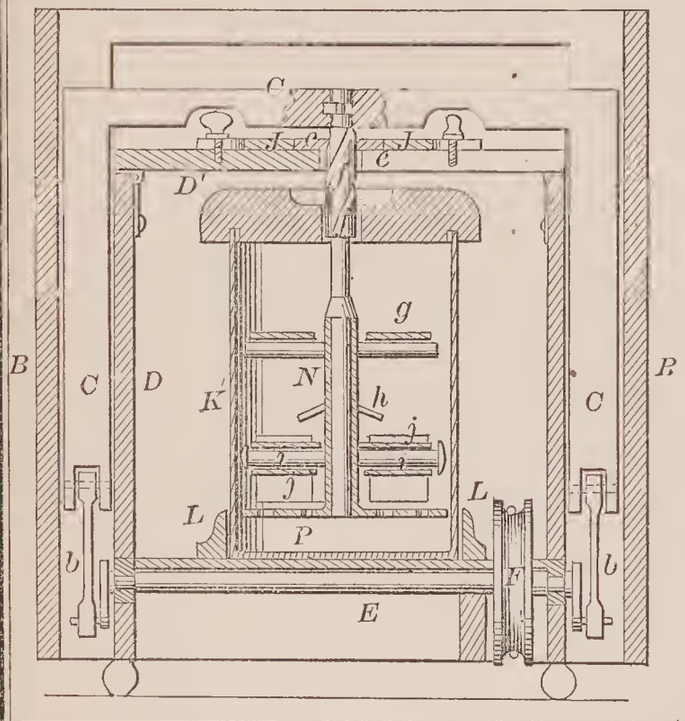
77429—G. D. Wilcox—*Mucilage Brush.*



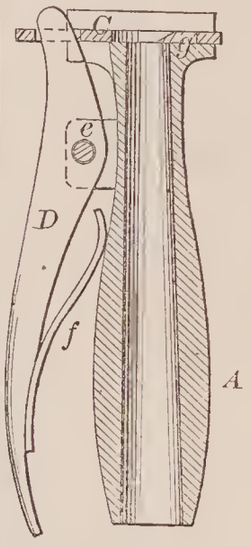
77430—J. F. Zacharias—*For Attaching Labels to Newspapers.*



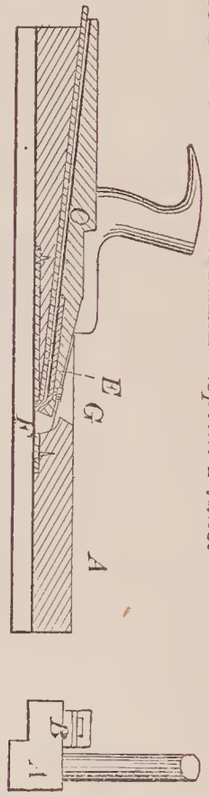
77431—C. H. Elliott—*Churn.*



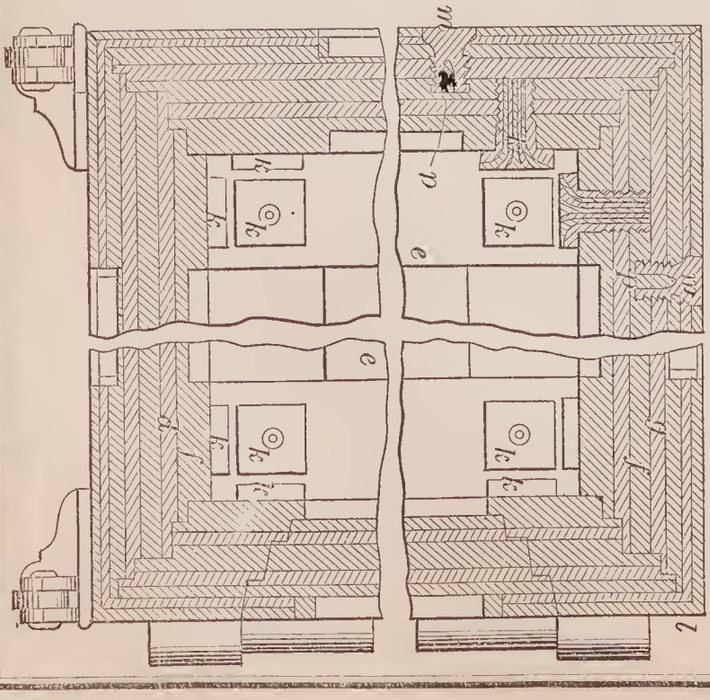
77436—D. Aldrich—*Cue Trimmer.*



77434—D. E. & A. A. Aikin—*Splint Plane.*



77432—O. Marland—*Construction of Safes.*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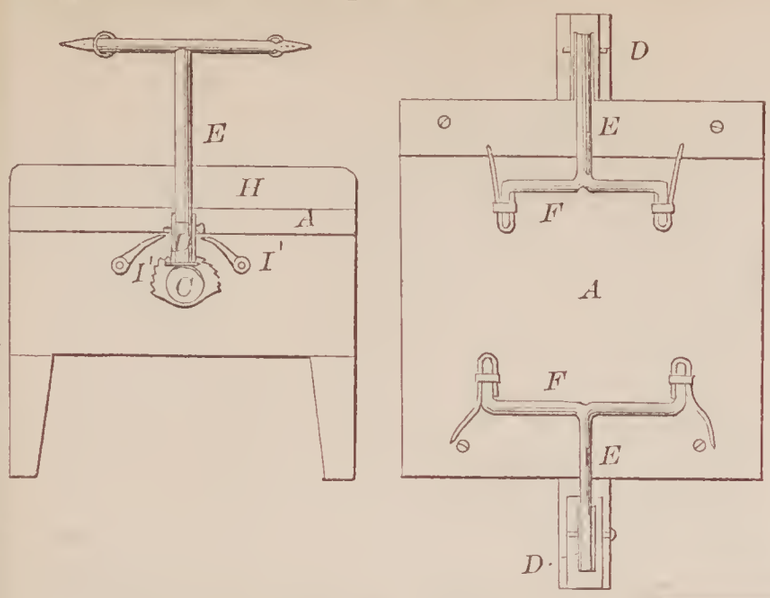
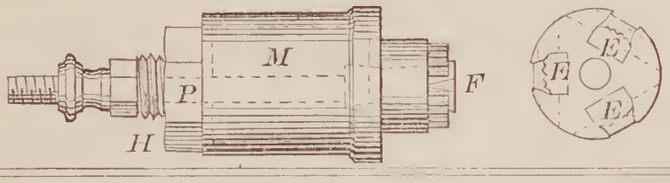
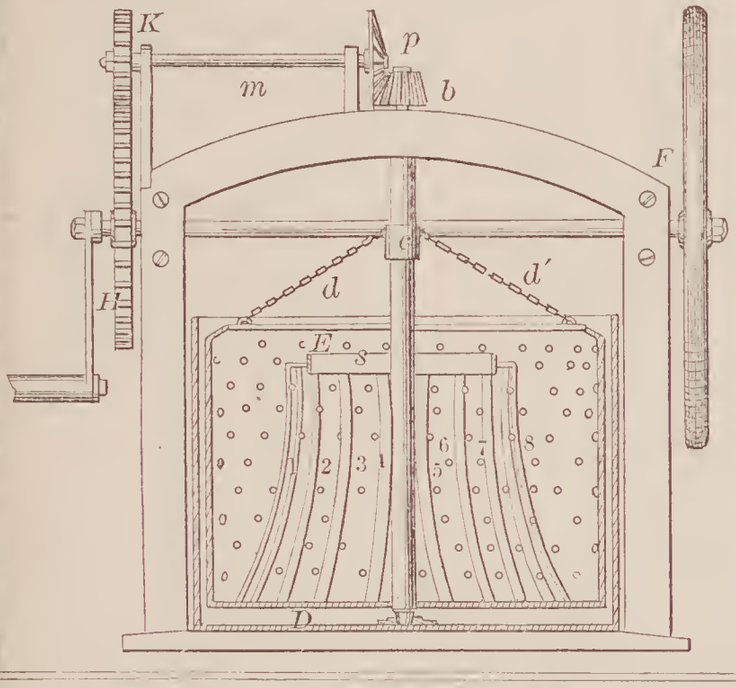
77435—C. Albert—*Sheep Holder.*



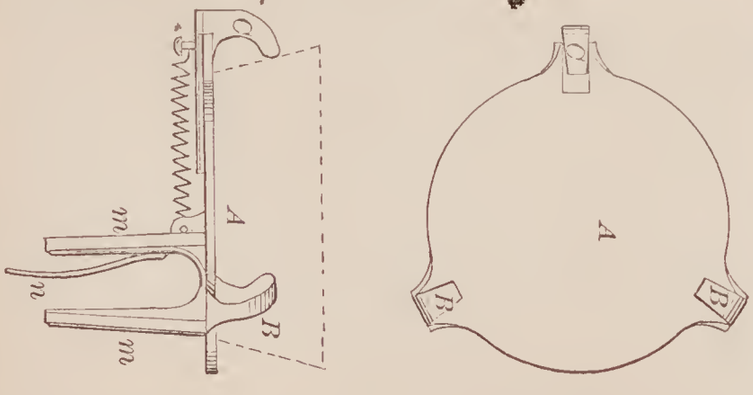
77437—A. F. Allen—*Thimble Puller.*



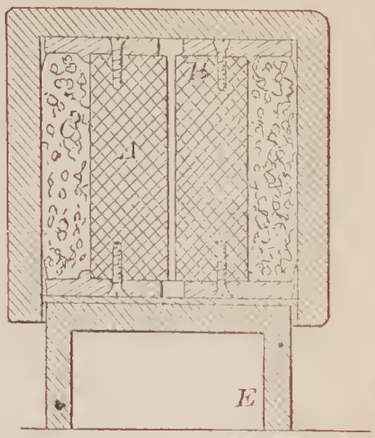
77440—C. Bange—*Clothes Dryer.*



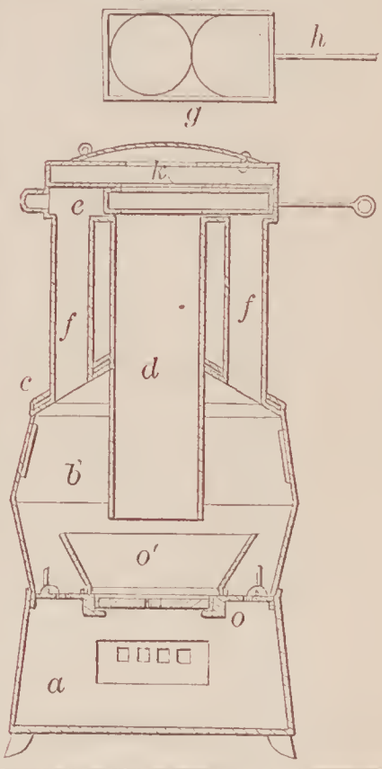
77442—J. D. Blake—*Soap Stand.*



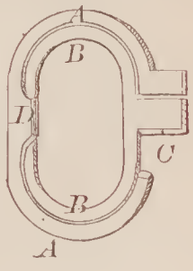
77438—O. E. Allen—*Car Spring.*



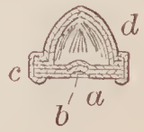
77444—W. S. Bronson—*Stove.*



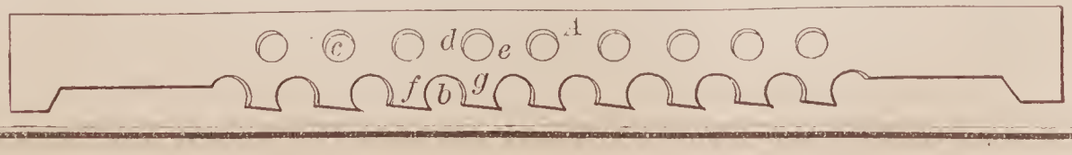
77441—A. H. Bixler—*Open Ring.*



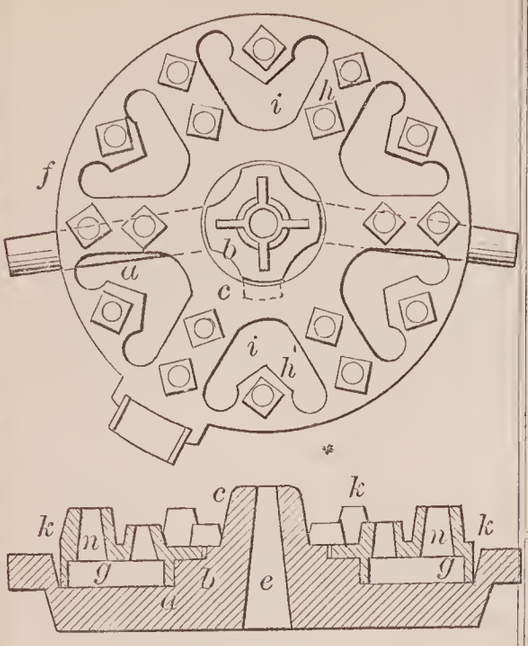
77443—E. Bredt—*Button.*



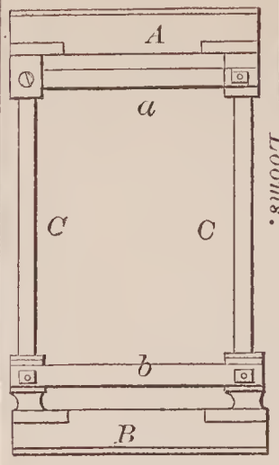
77439—S. Anderson—*Saw.*



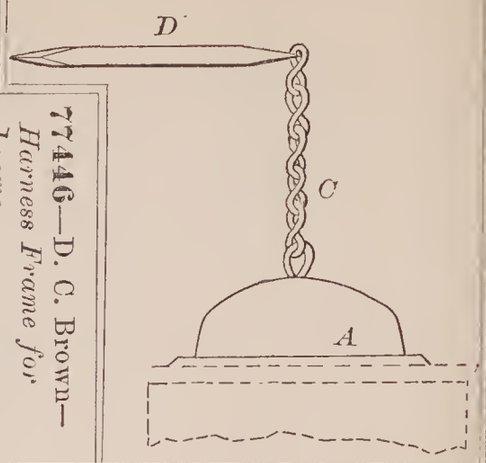
77445—W. S. Bronson—*Grate.*



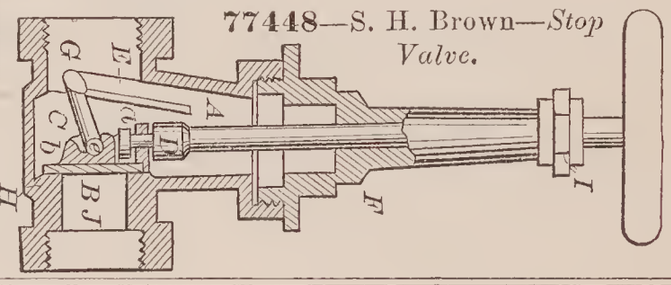
77446—D. C. Brown—*Harness Frame for Looms.*



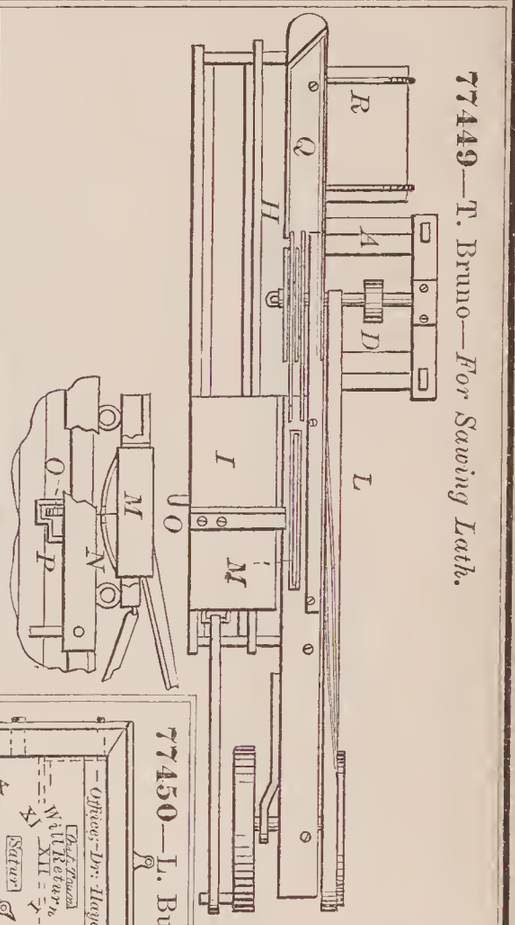
77447—F. W. Brown—*For Soldering the Lids of Cans.*



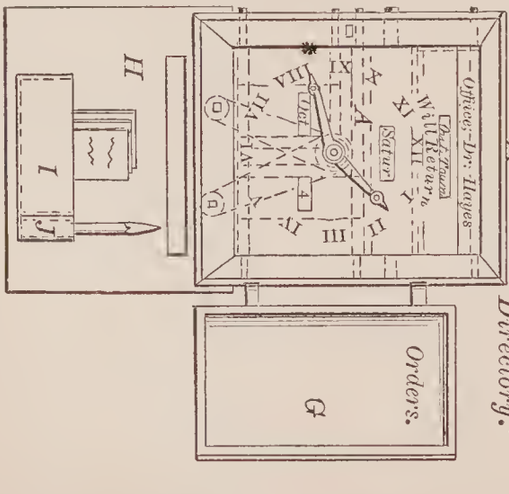
77448—S. H. Brown—*Stop Valve.*



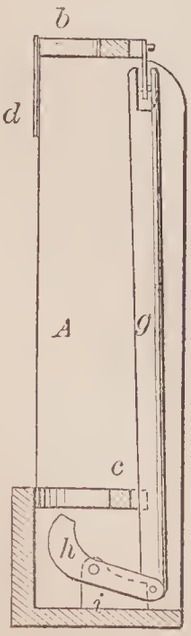
77449—T. Bruno—*For Sawing Lath.*



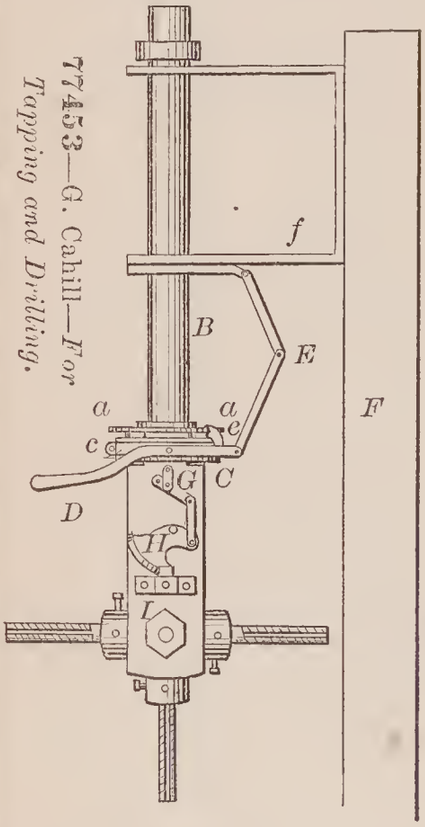
77450—L. Burger—*Door Directory.*

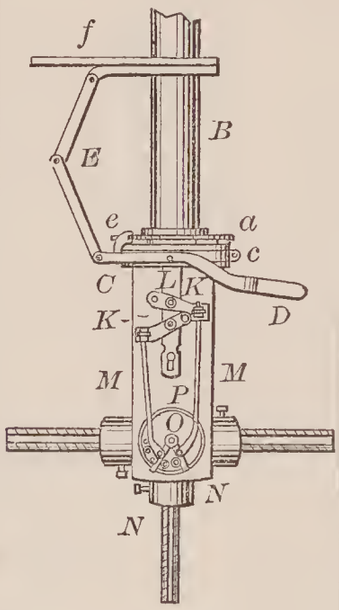


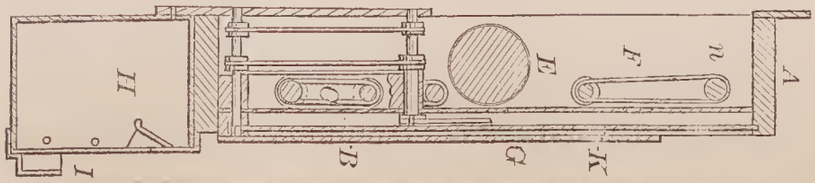
77452—V. H. Buschmann—*Billiard Cue Rack.*



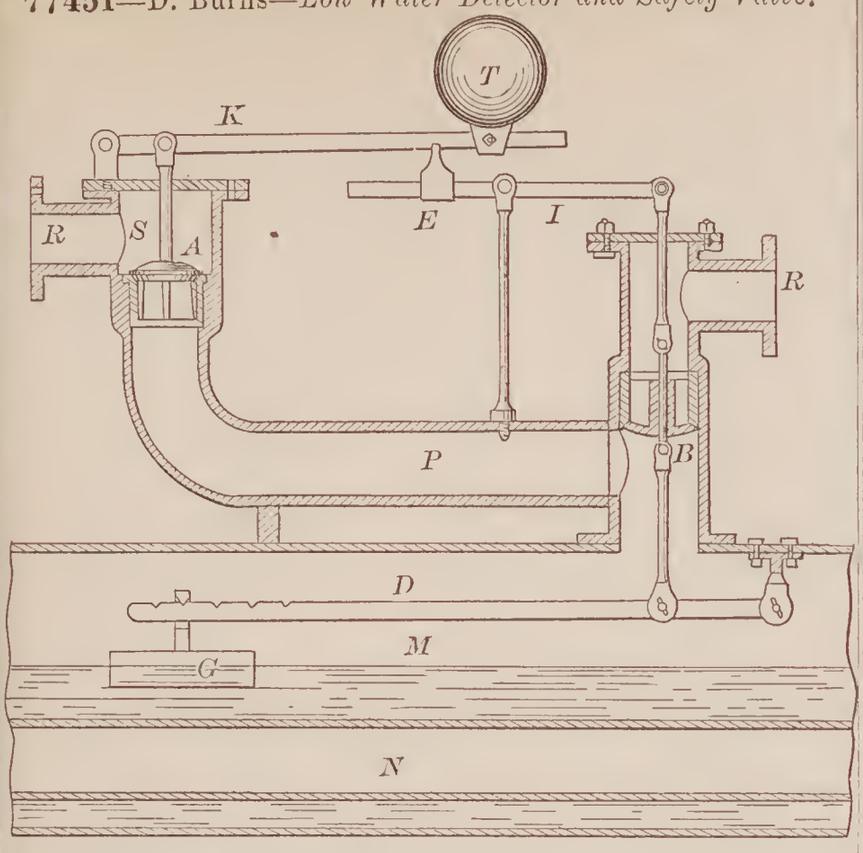
77453—G. Cahill—*For Tapping and Drilling.*



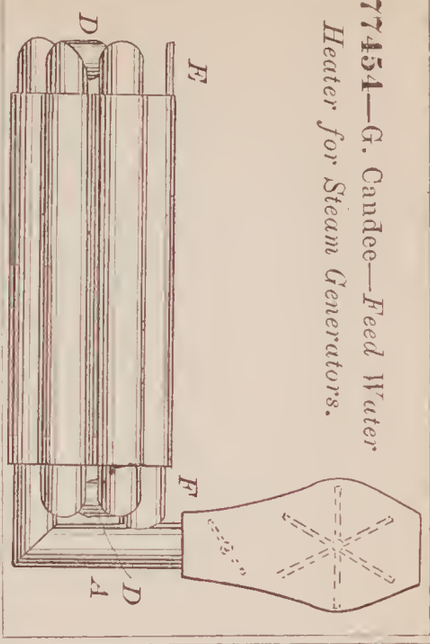




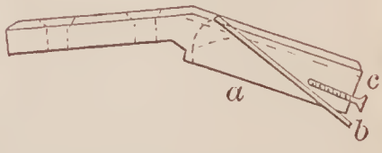
77451—D. Burns—*Low Water Detector and Safety Valve.*



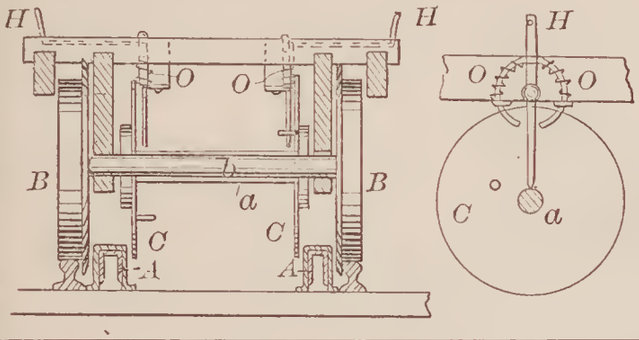
77454—G. Candee—*Feed Water Heater for Steam Generators.*



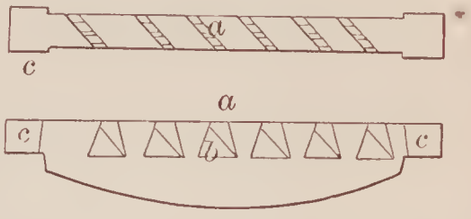
77455—C. P. Carter—*For Sharpening Watch Wood.*



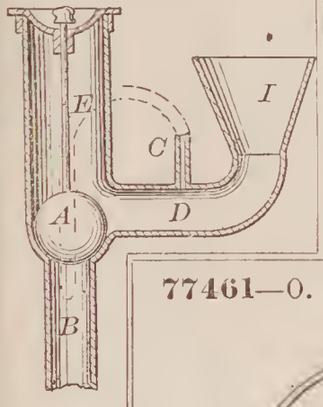
77456—Christian & Gunn—*Railroad.*



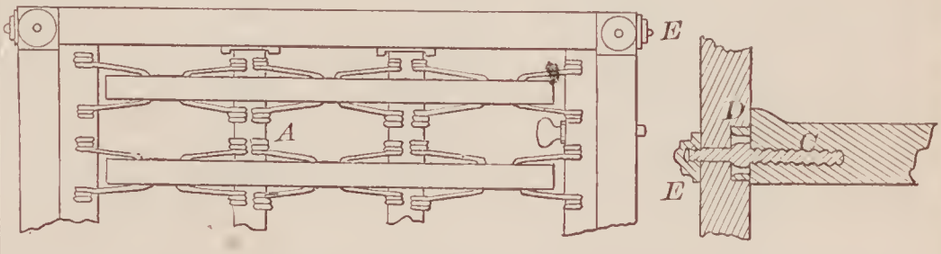
77458—H. Collinson—*Grate Bar.*



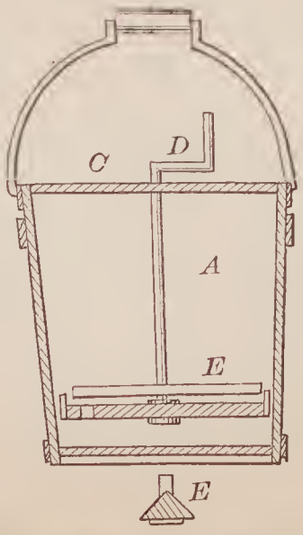
77459—G. Conron—*Water Closet.*



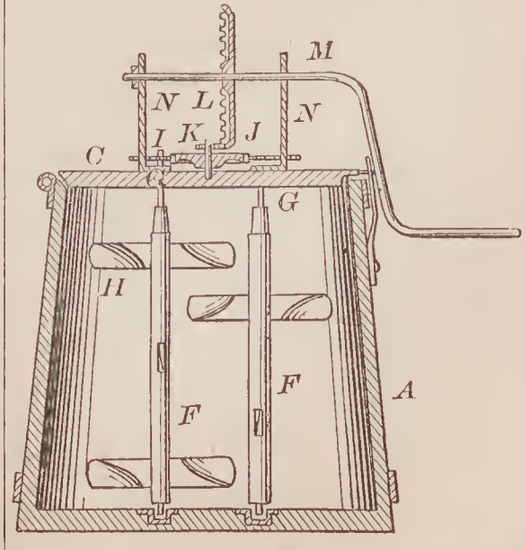
77457—J. C. Clime—*Bedstead Fastener.*



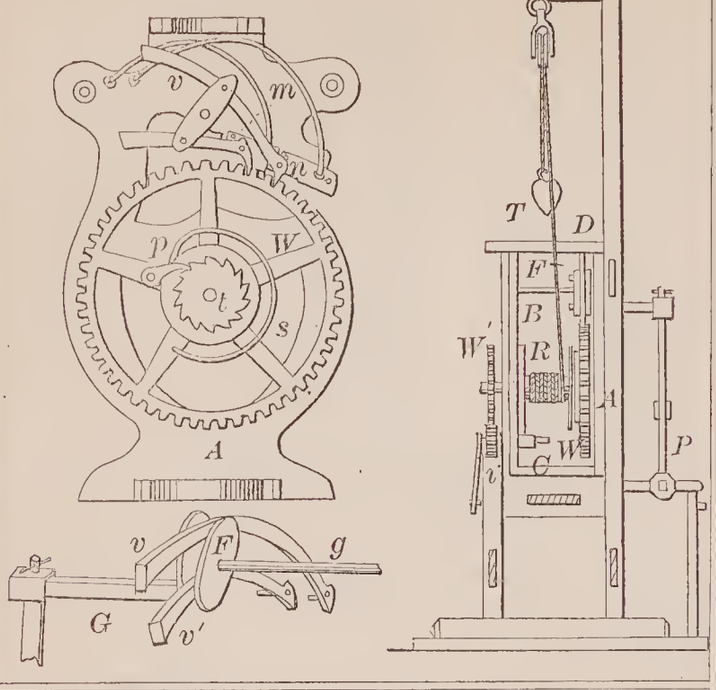
77461—O. H. Cooke—*Potato Washer.*



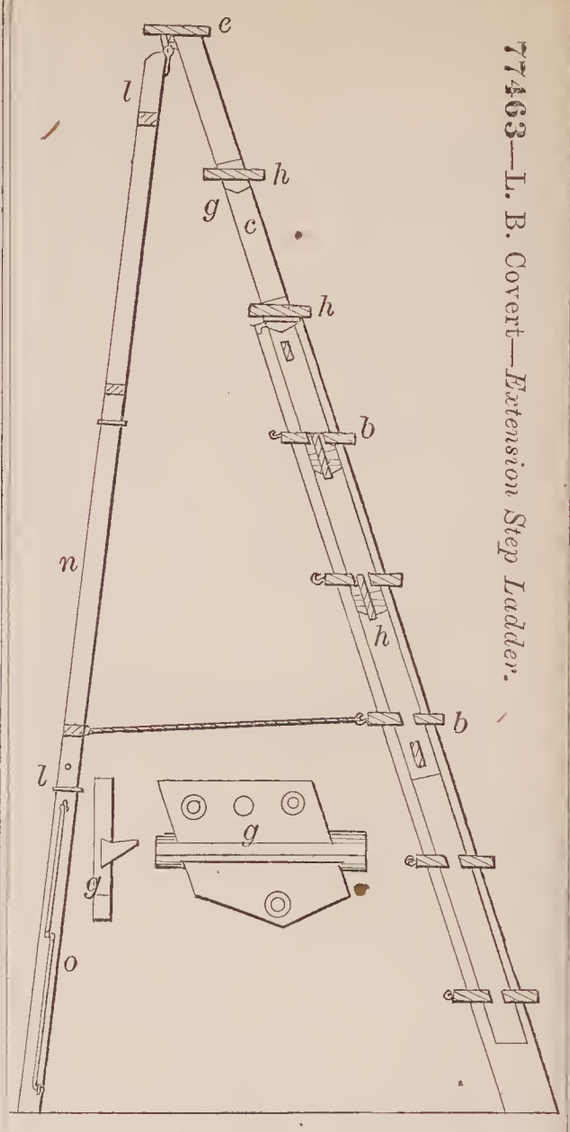
77460—A. L. Converse—*Churn.*



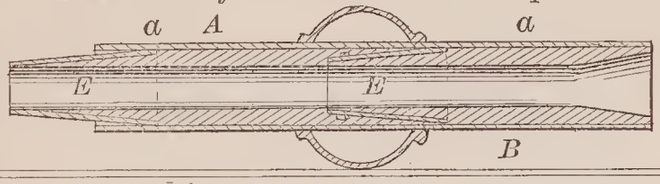
77462—A. B. Corby—*Churn.*



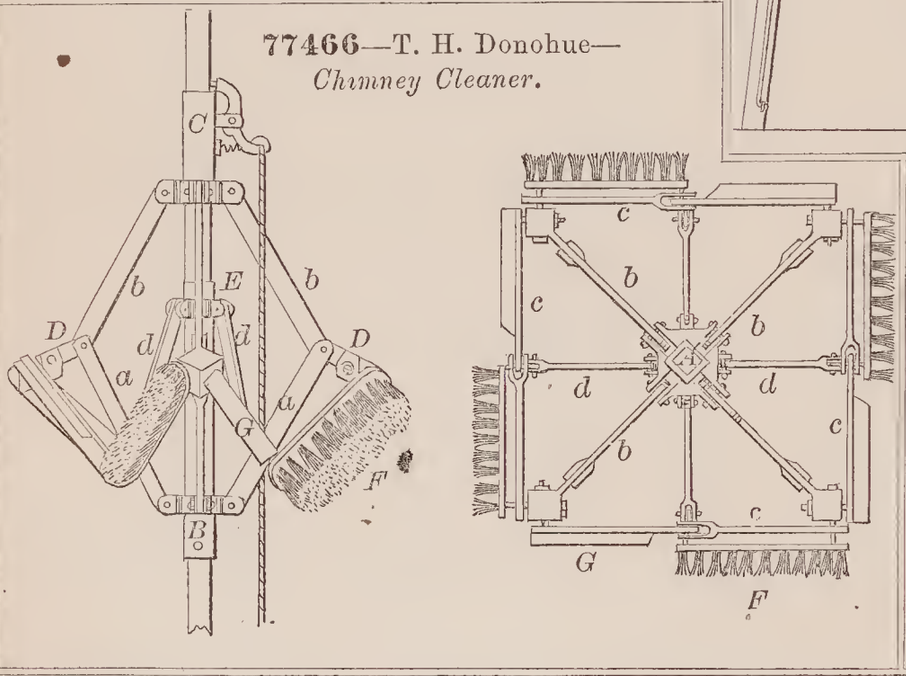
77463—L. B. Covert—*Extension Step Ladder.*



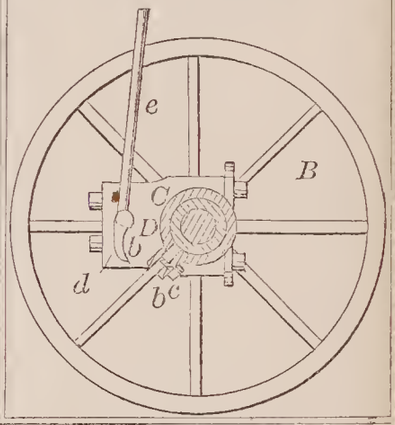
77465—E. Dayton—*Cement Water Pipe.*



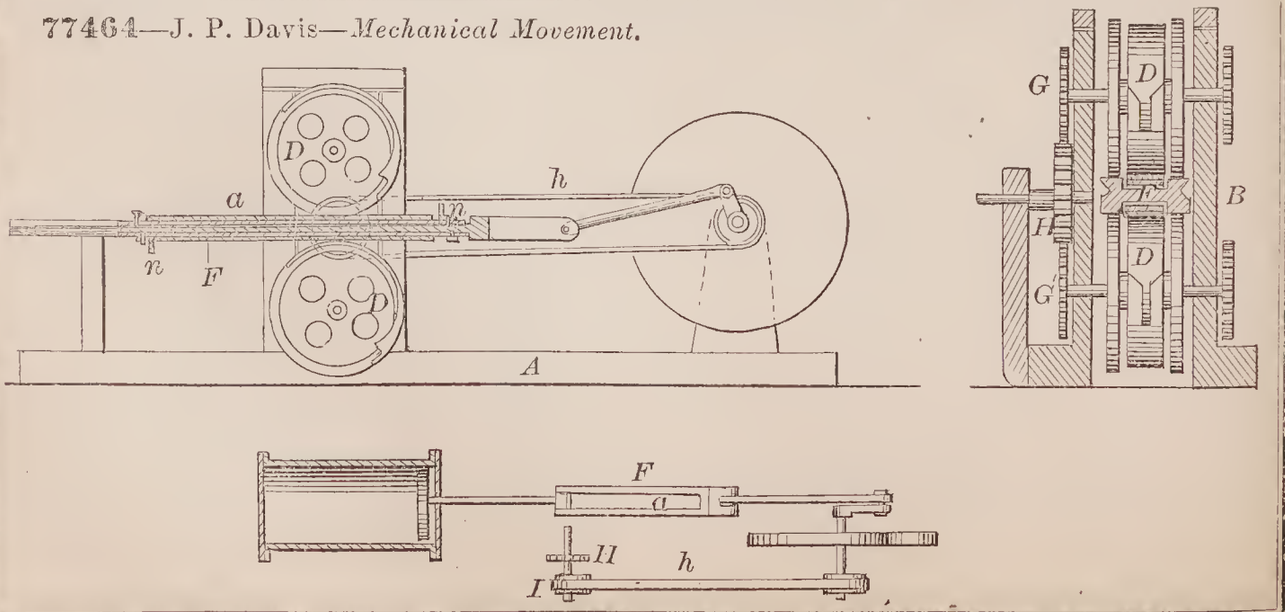
77466—T. H. Donohue—*Chimney Cleaner.*



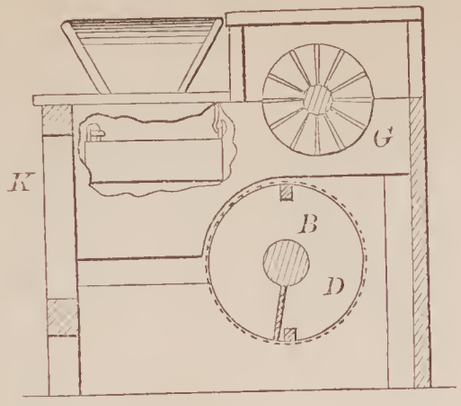
77467—C. Ducreux—*Wagon Brake.*

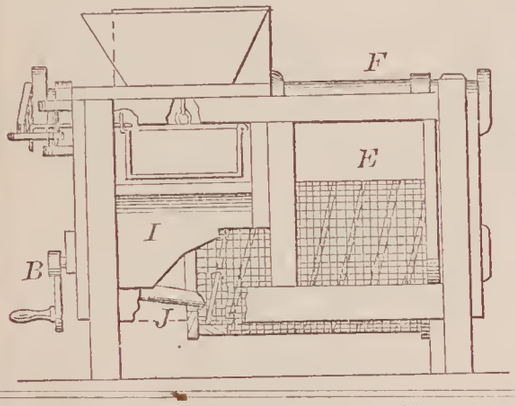


77464—J. P. Davis—*Mechanical Movement.*

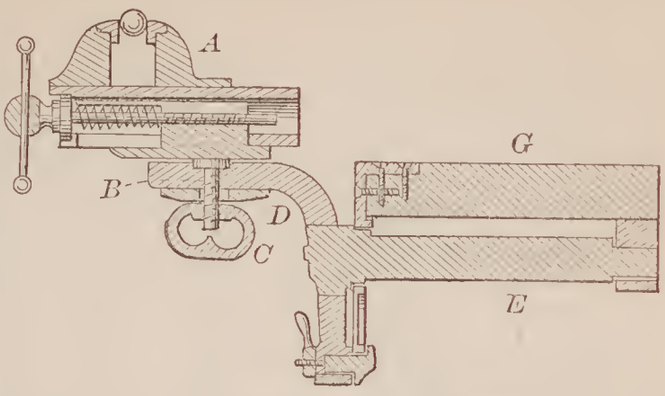


77468—M. Eckley—*For Cleaning Grain.*

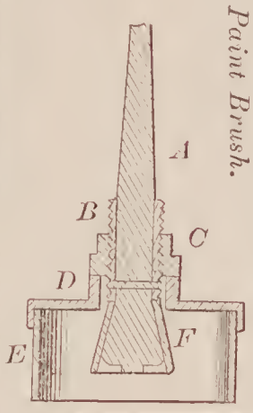




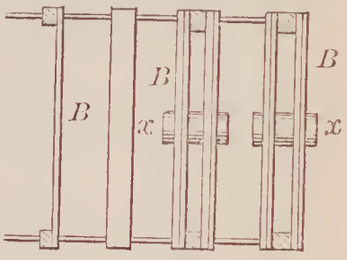
77472—I. Fisher—*Vise.*



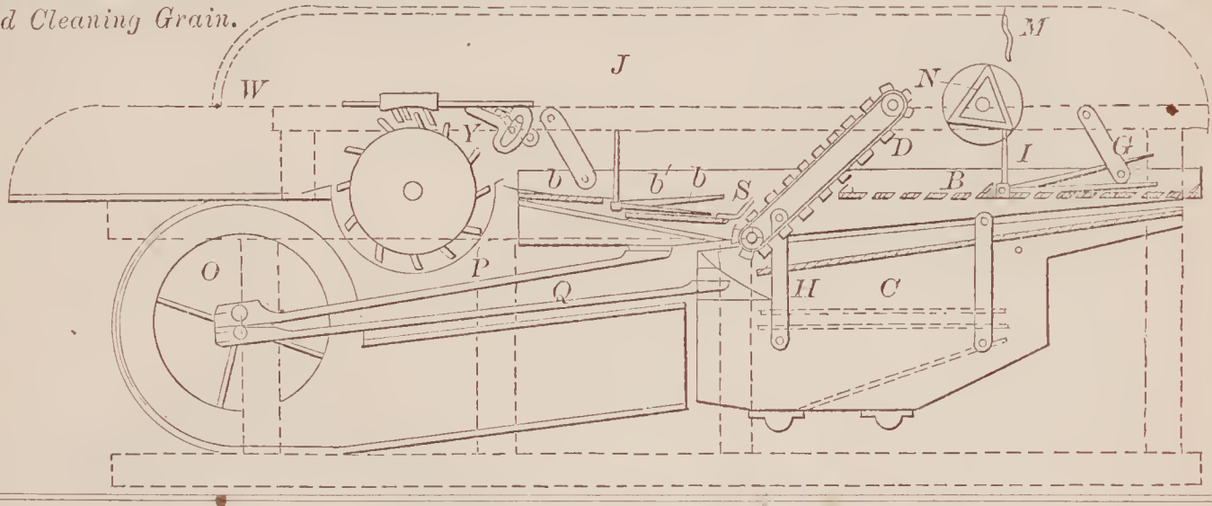
77475—W. H. Forker—*Paint Brush.*



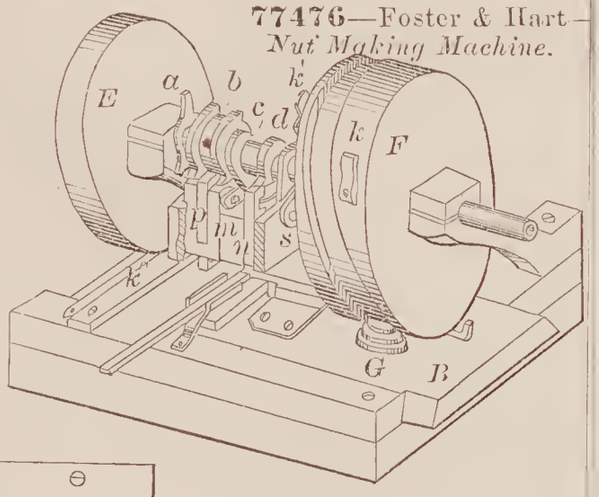
77473—W. A. Flanders—*Behive.*

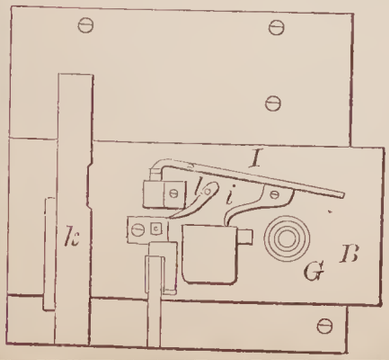


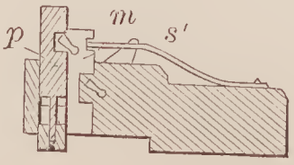
77471—W. B. Emery—*For Threshing and Cleaning Grain.*



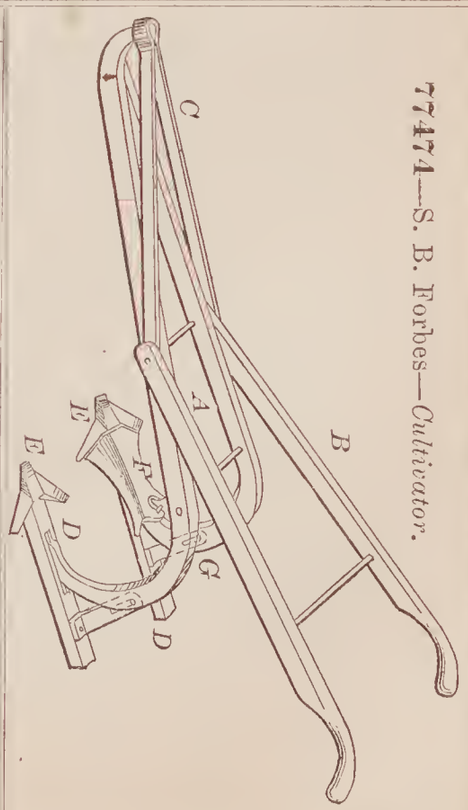
77476—Foster & Hart—*Nut Making Machine.*



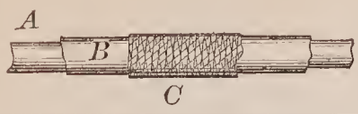




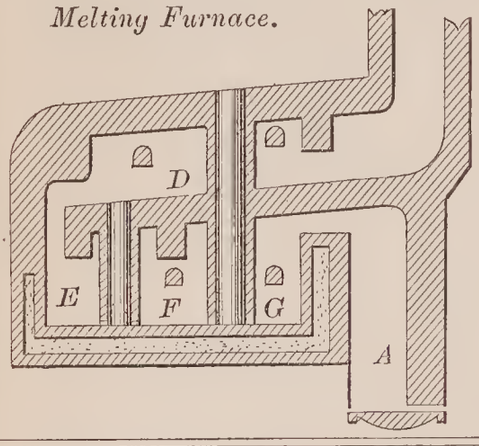
77474—S. B. Forbes—*Cultivator.*



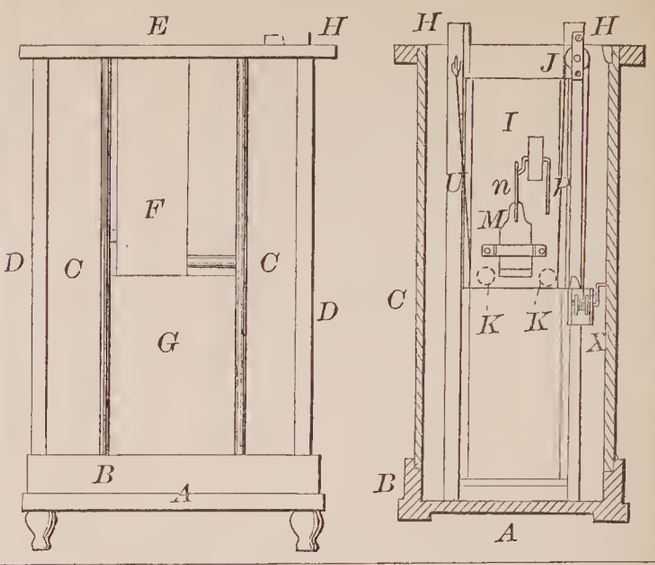
77477—J. R. Gillett—*Whip.*



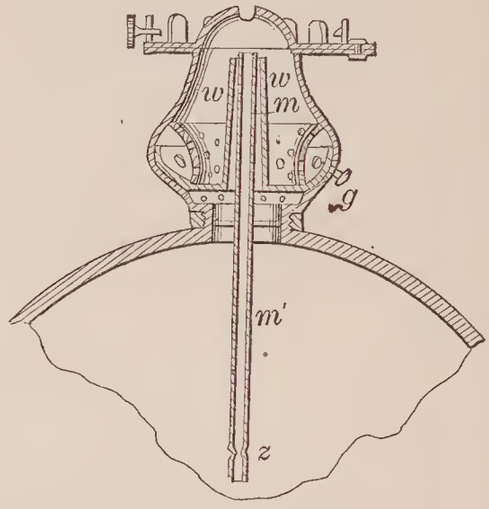
77479—L. B. Goodhue—*Glass Melting Furnace.*



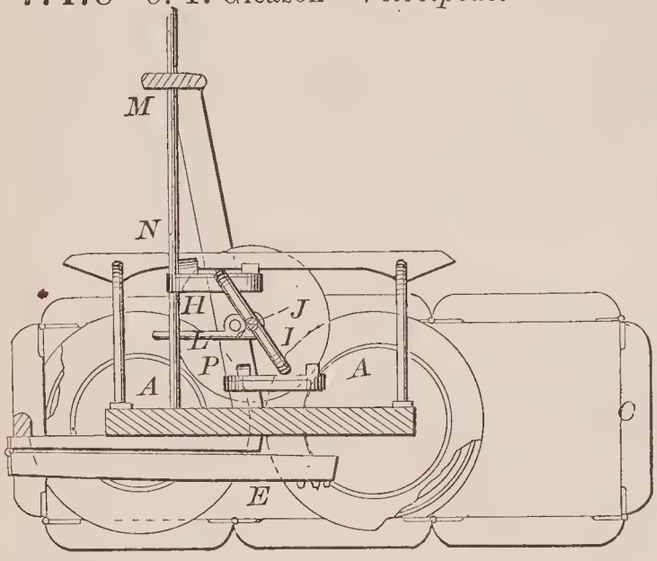
77480—J. Gourlay—*Portable Bath House.*



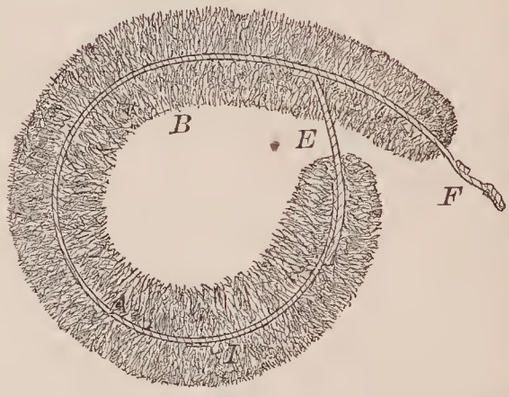
77481—Gracie & Boyd—*Lamp Burner.*



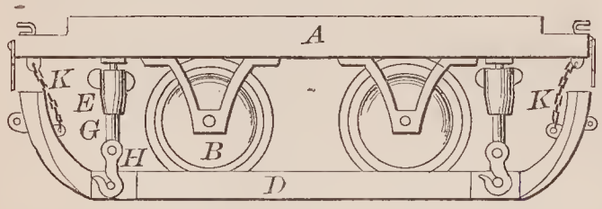
77478—O. T. Gleason—*Velocipede.*



77483—E. H. Hart—*Fur Cuff.*

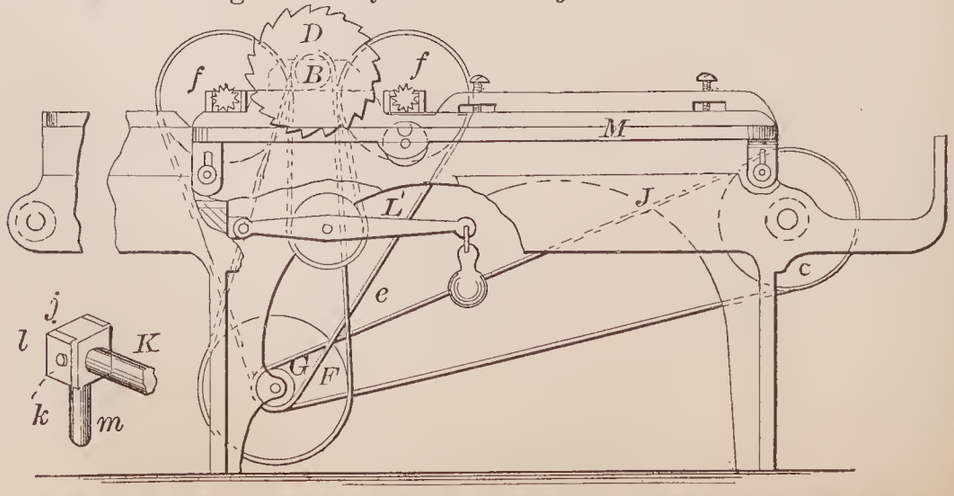


77485—J. J. Herrick—*Street Car.*

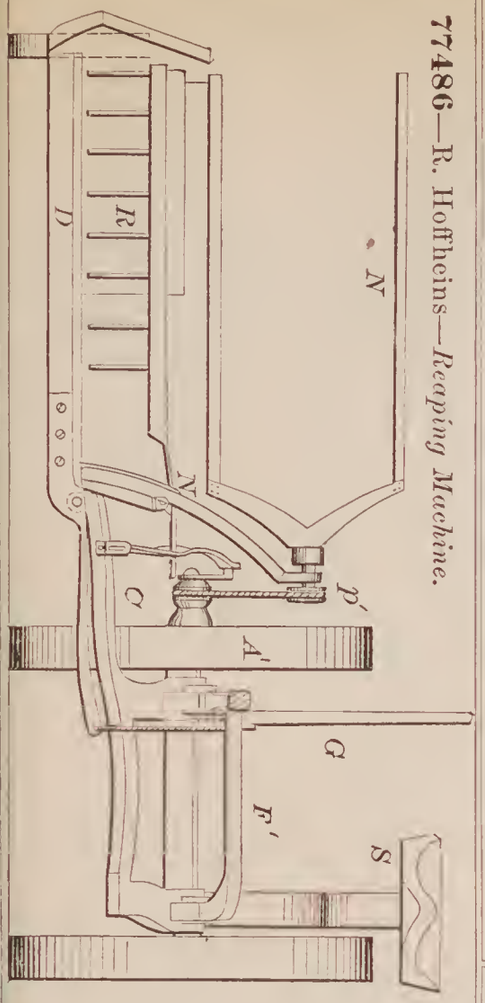


77482—H. S. Griffiths—*Suspension Ring.*

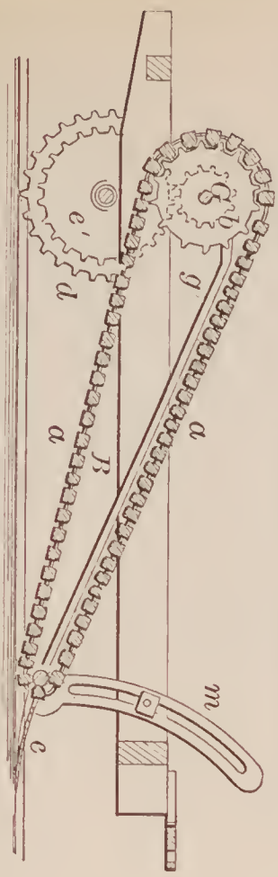
77484—Hedges & Story—*For Sawing Lath.*



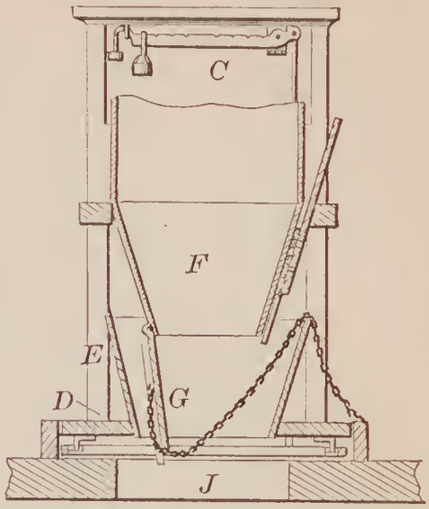
77486—R. Hoffheins—*Reaping Machine.*



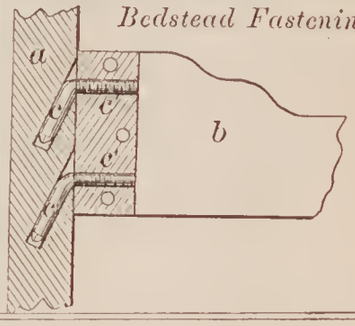
77487—Howard & Avery—*Ditching and Grading Machine.*



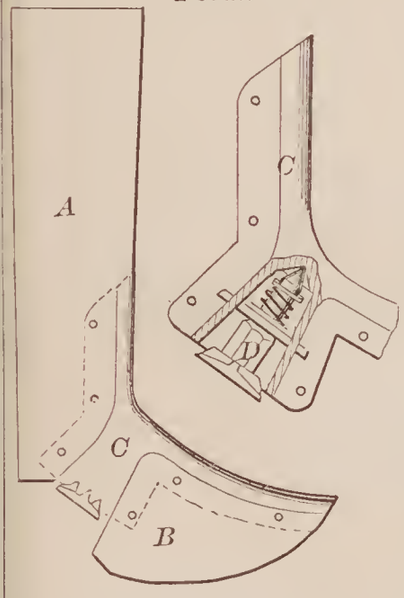
77488—F. E. & L. I. Howe—*Hopper and Platform Scales.*



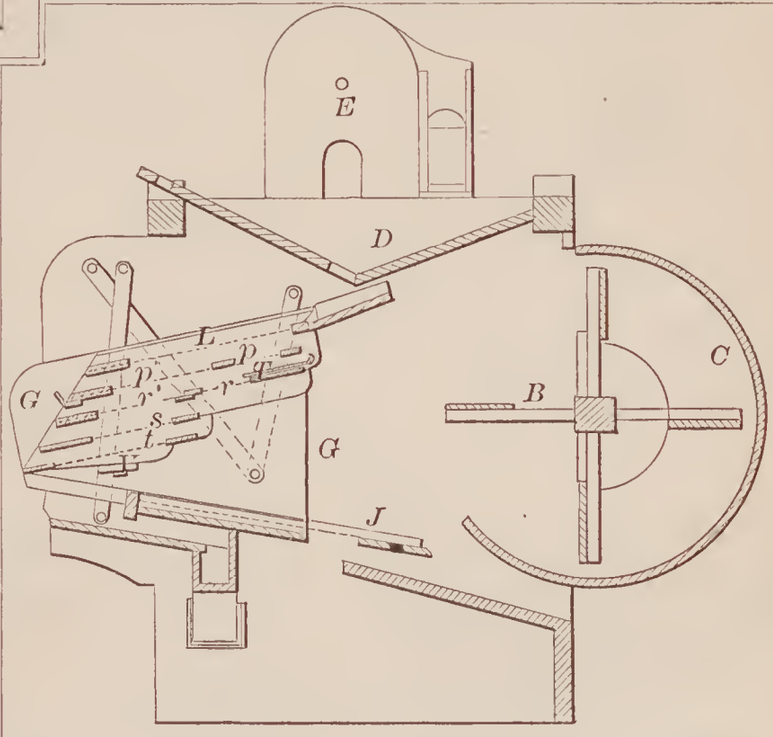
77491—J. C. & F. J. Jackson—*Bedstead Fastening.*



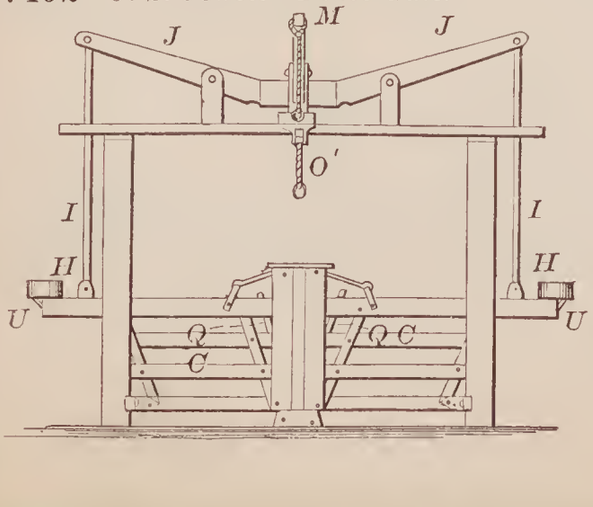
77489—J. Howe—*Boot Form.*

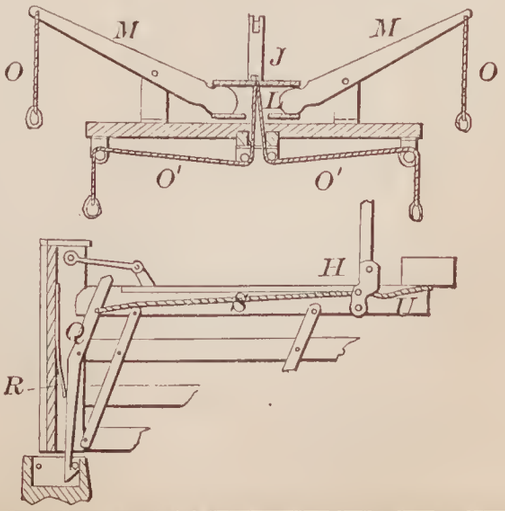


77490—S. S. Hurlbut—*Grain Separator.*

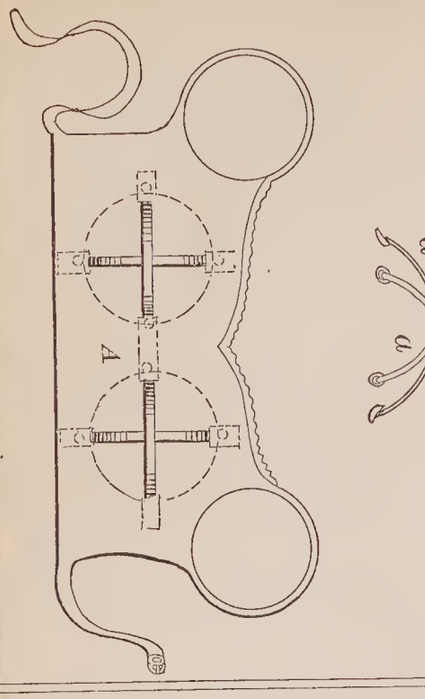


77492—J. S. Jewett—*Fence Gate.*

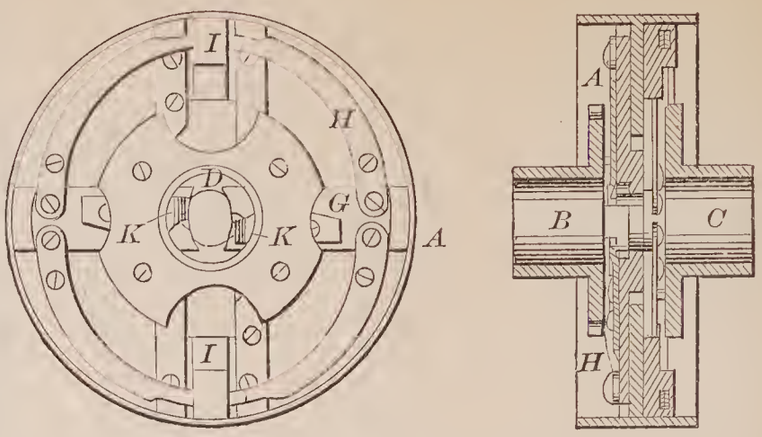




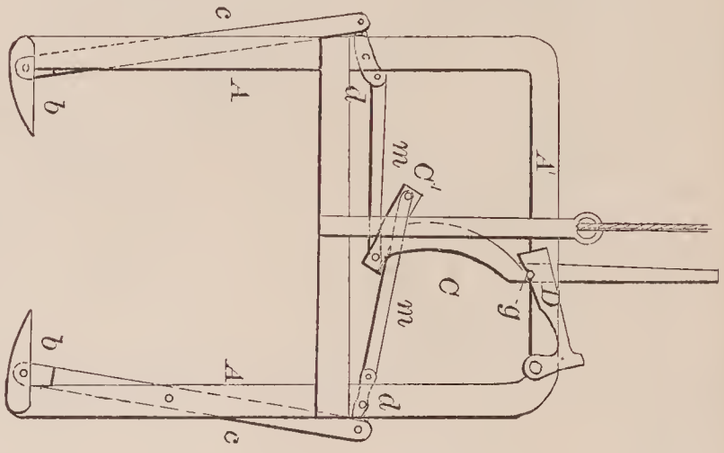
77493—A. H. Johnson—*Bosom Pad.*



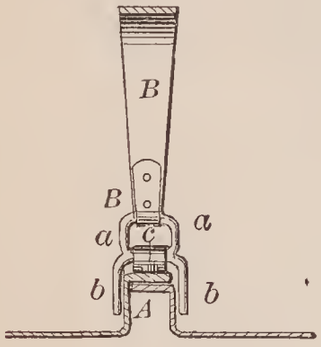
77495—S. U. King—*Wood Turning Lathe.*



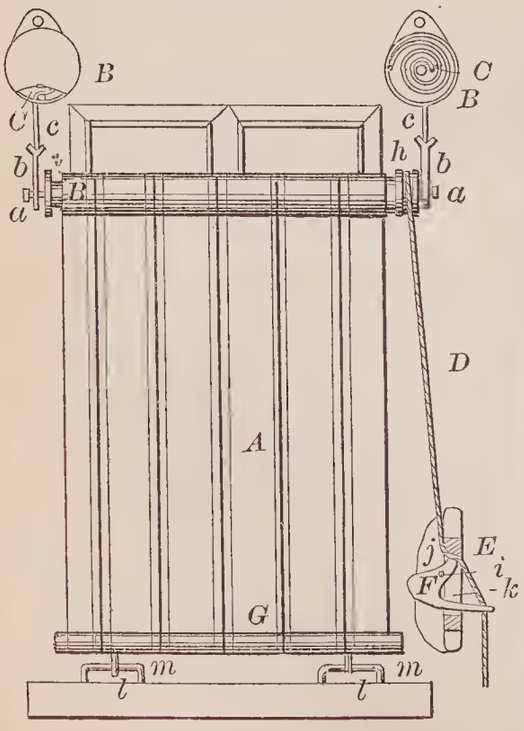
77496—H. Krafft—*Horse Hay Fork.*



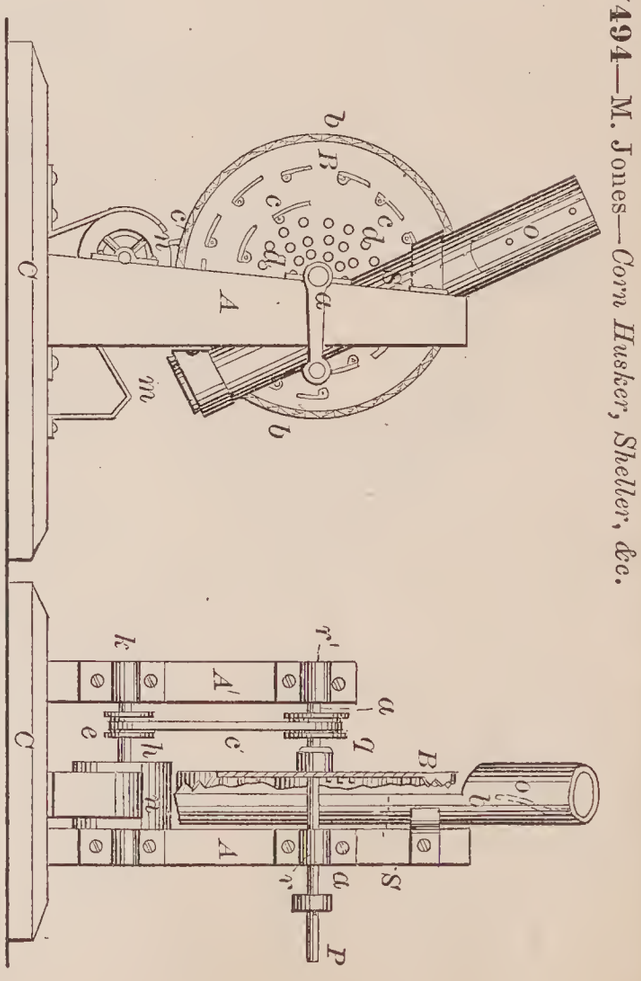
77497—J. Lagowitz—
Traveling Bag



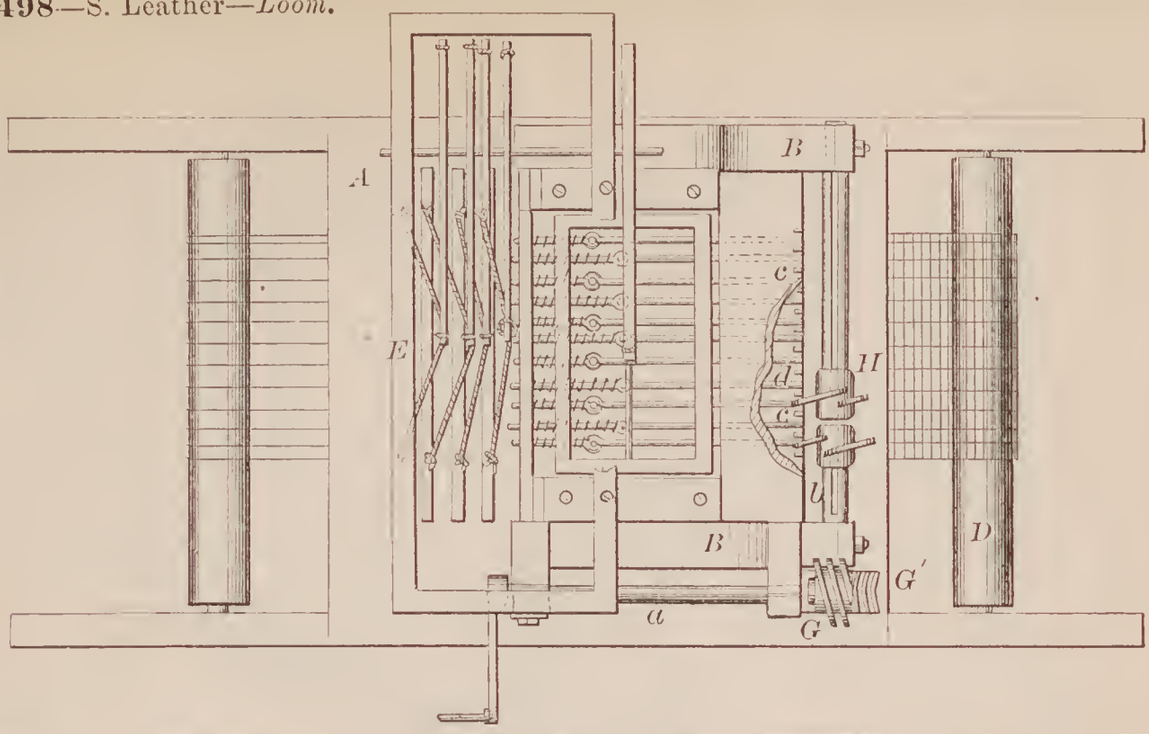
77499—J. D. & I. W. Legg—*Curtain Fixture.*



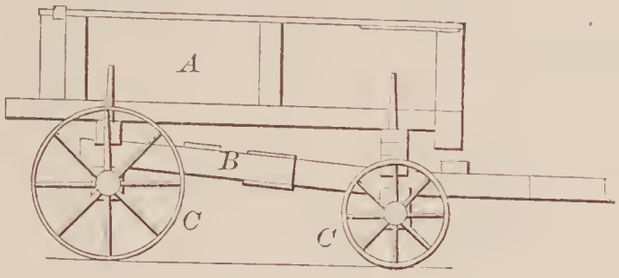
77494—M. Jones—*Corn Husker, Sheller, &c.*

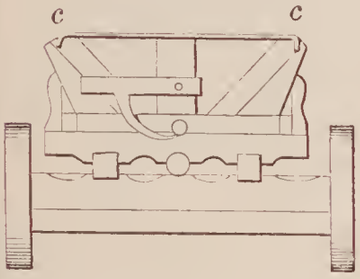


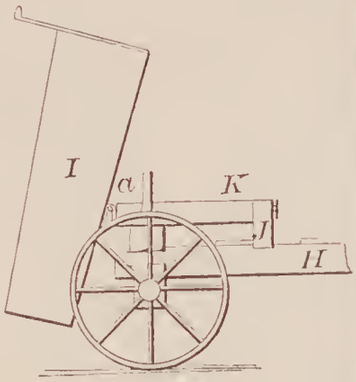
77498—S. Leather—*Loom.*

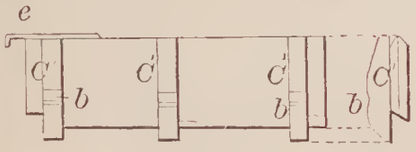


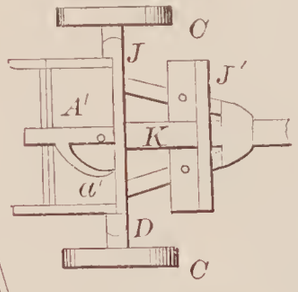
77500—C. Mahan—*Farm Wagon.*



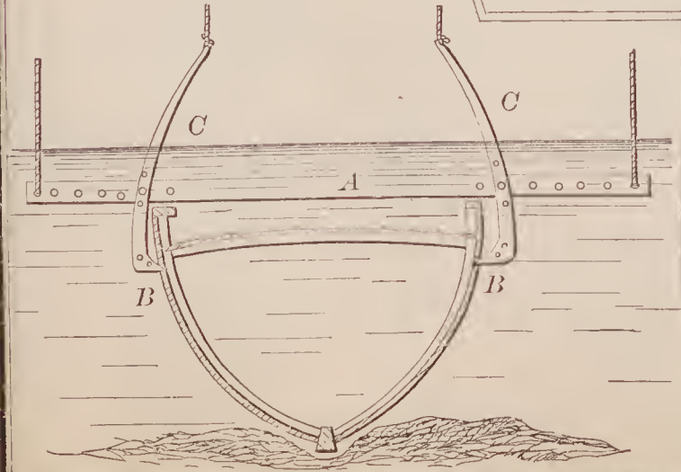




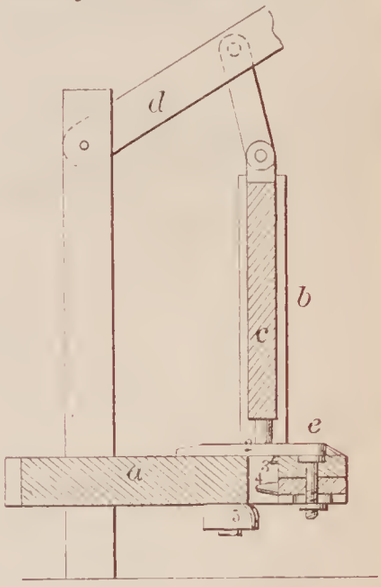


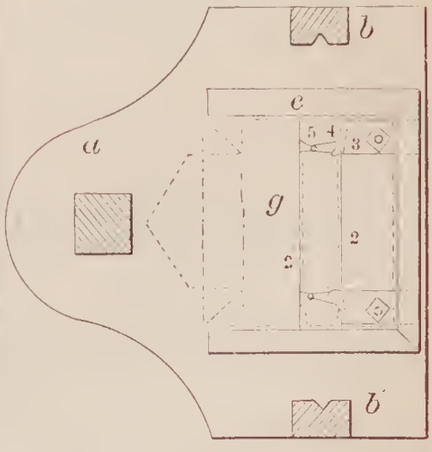


77501—J. T. Martin—*Grapple for Sunken Vessels.*

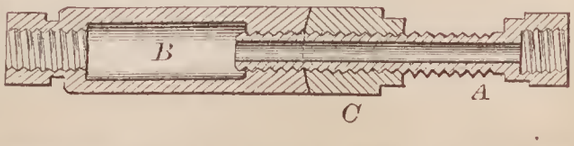


77502—C. O. Maxfield—*For Forming Pasteboard Boxes.*

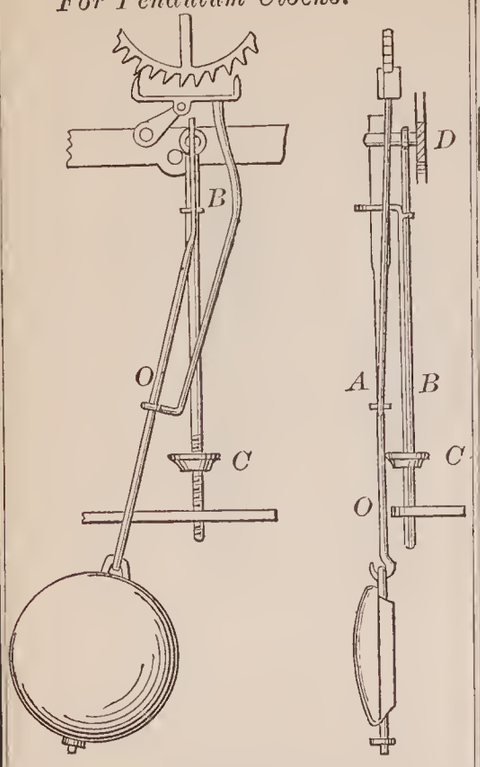




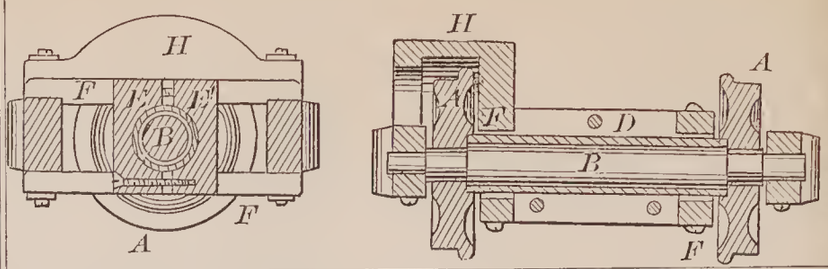
77503—J. McCarthy—*Pipe Coupling.*



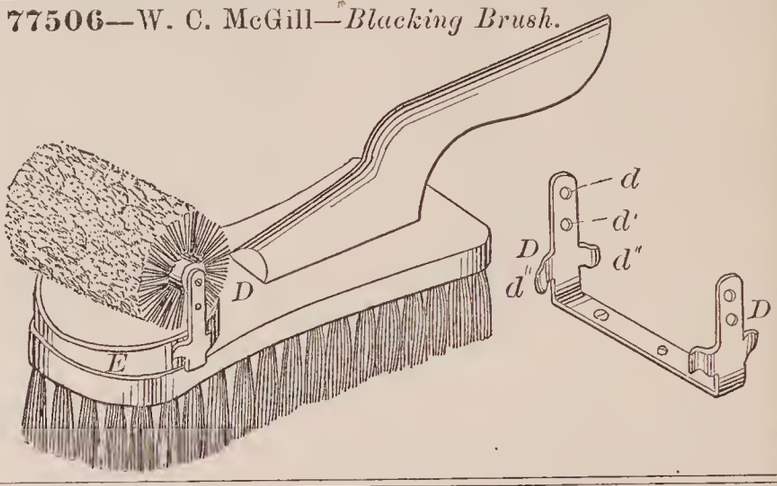
77504—O. P. McDonald—*For Pendulum Clocks.*



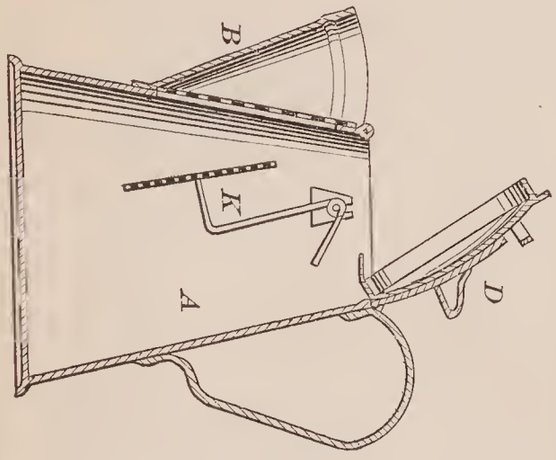
77505—D. McFarland—*Railroad Truck.*



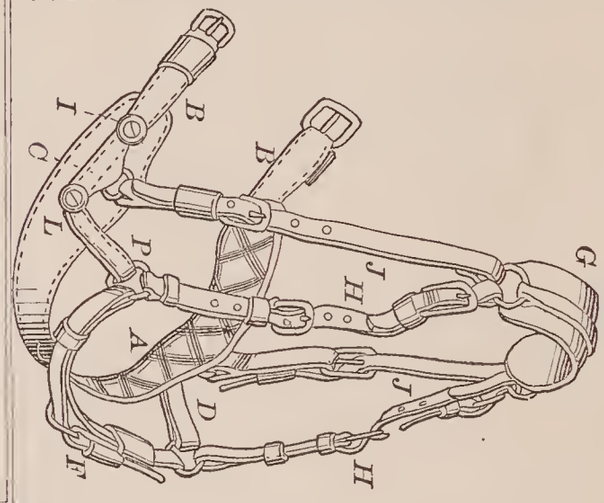
77506—W. C. McGill—*Blacking Brush.*



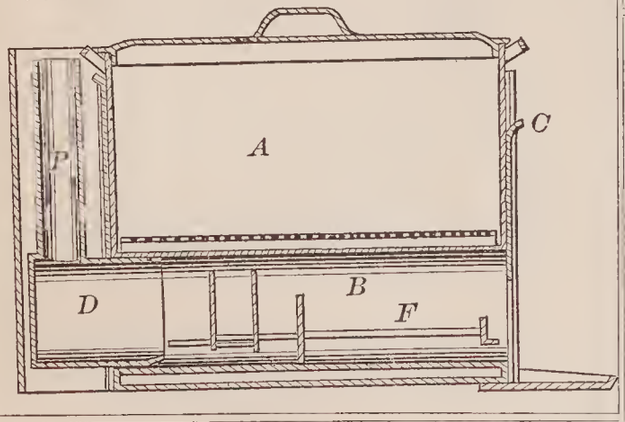
77507—S. McGuffin—*Coffee and Tea Pot.*



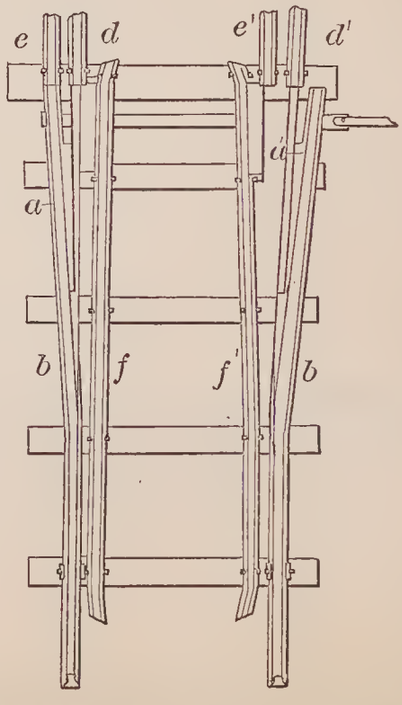
77508—McMullen & Rock—*Harness.*



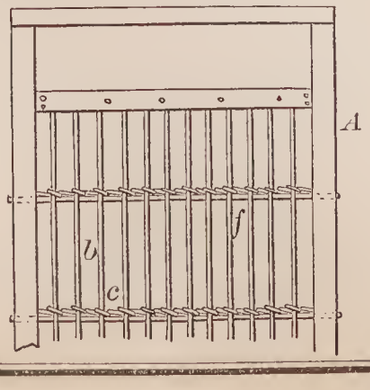
77511—J. C. Merrell—*Wash Boiler.*



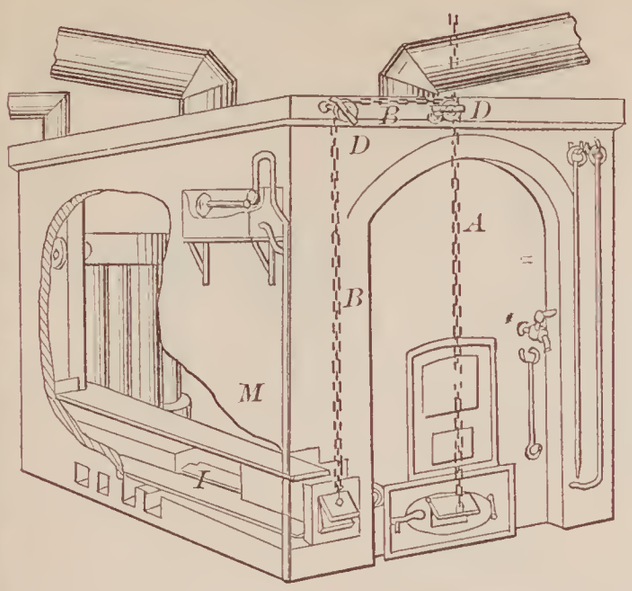
77510—E. Mercier—*Railroad Switch.*



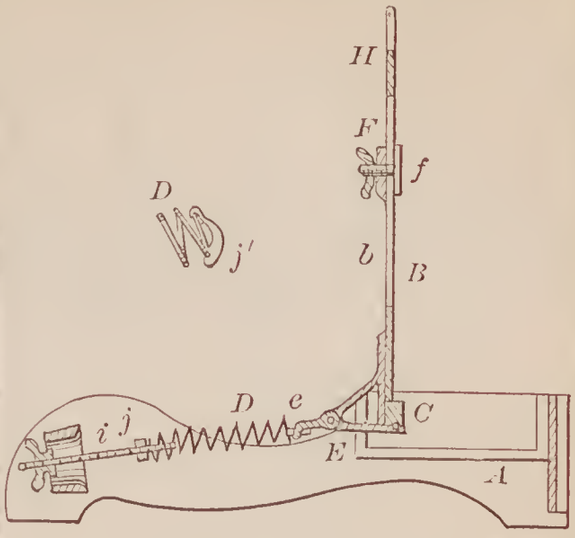
77509—R. McMurray—*Sand Screen.*



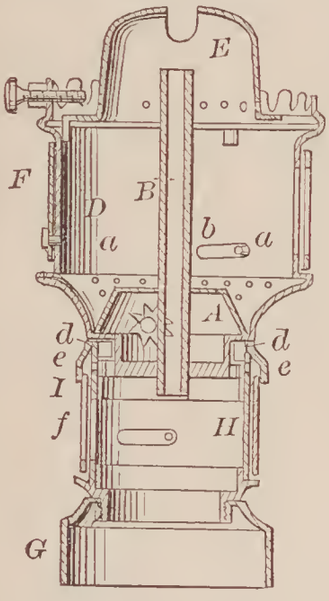
77512—A. H. Mershon—*Damper for Hot Air Furnaces.*



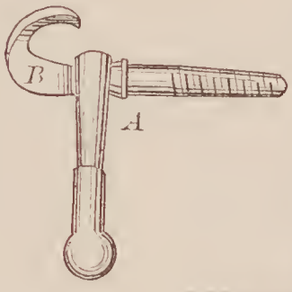
77513—H. F. Metzler—*Spring Horse.*



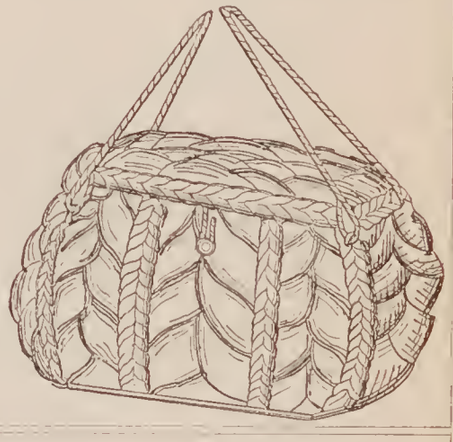
77514—Miles & Remsen—*Lamp Burner.*



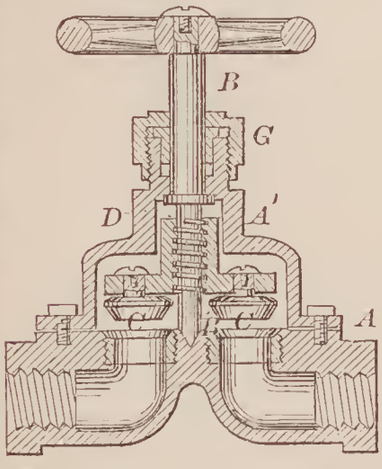
77515—G. L. Miller—*Trace Hook.*



77516—S. P. P. Miller—*Basket.*

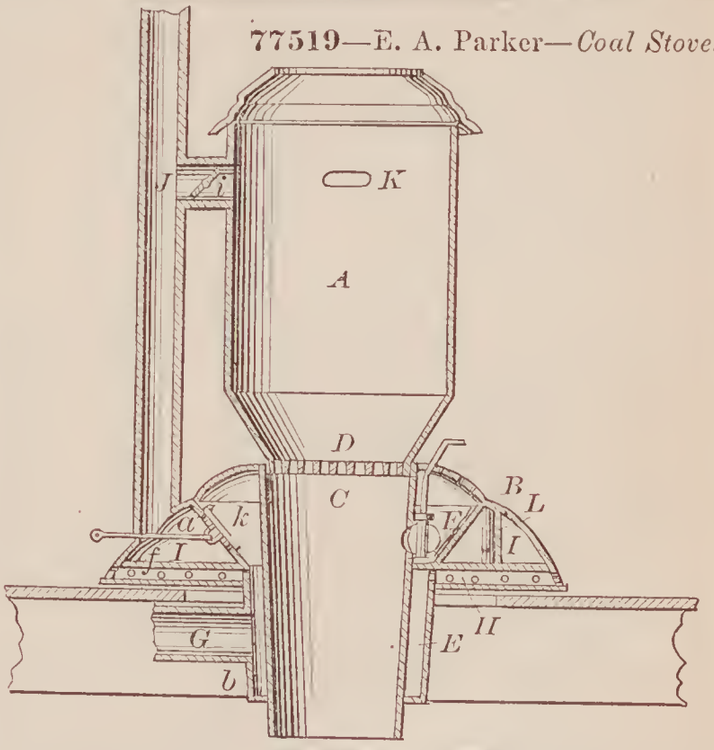


77517—Moore & Howes—*Steam Globe Valve.*

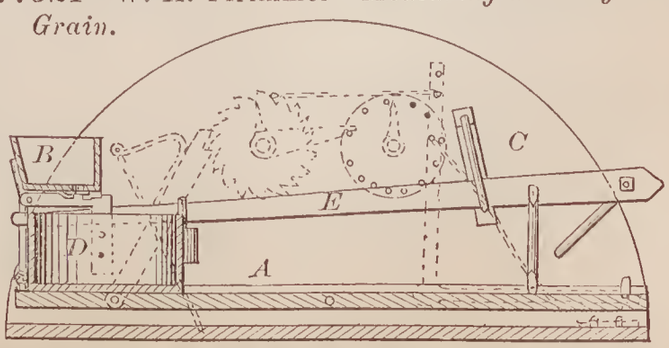


77518—J. Moulton—*Manufacture of Elastic Rolls.*

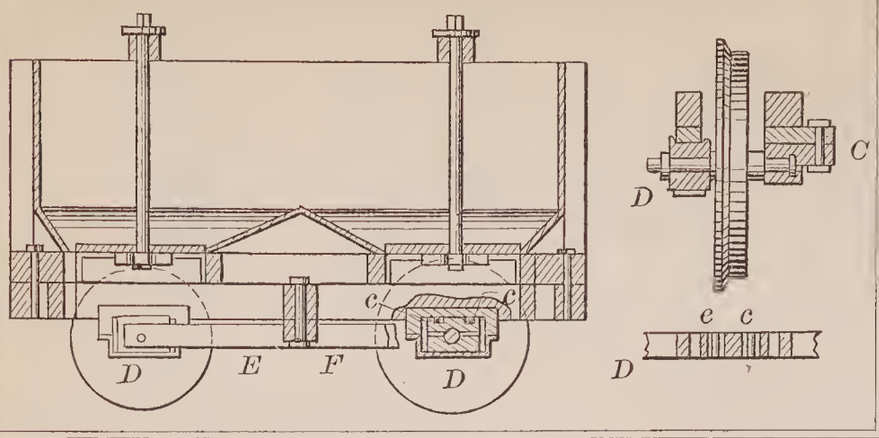
77519—E. A. Parker—*Coal Stove.*



77521—W. H. Pfrimmer—*Measuring and Registering Grain.*



77520—J. R. & D. W. Perry—*Railroad Car Truck.*



77527—O. H. Reed—*Guide Gauge for Printing Presses.*

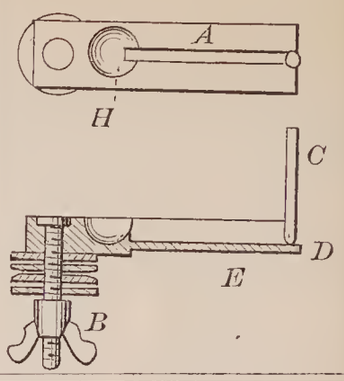


Fig. 6

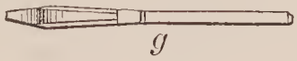
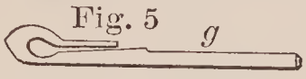
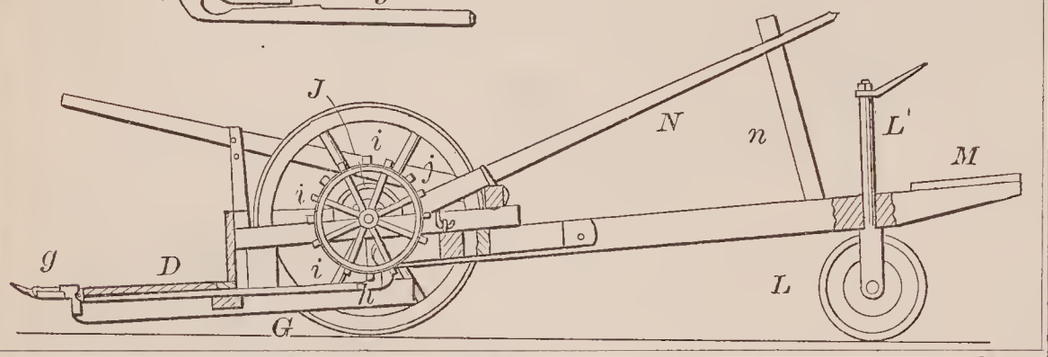


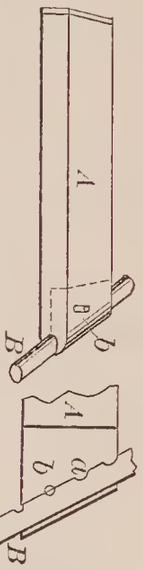
Fig. 5



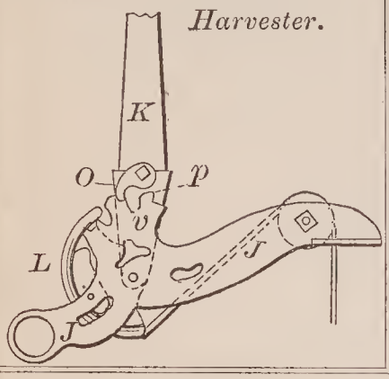
77524—J. Ramsey—*Harvester.*

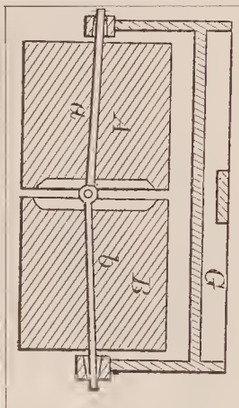


77522—F. A. Potter—*Tool Holder.*

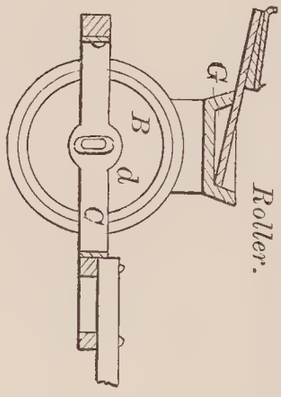


77525—A. Rank—*Harvester.*

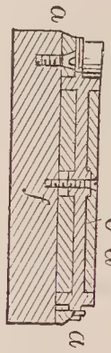




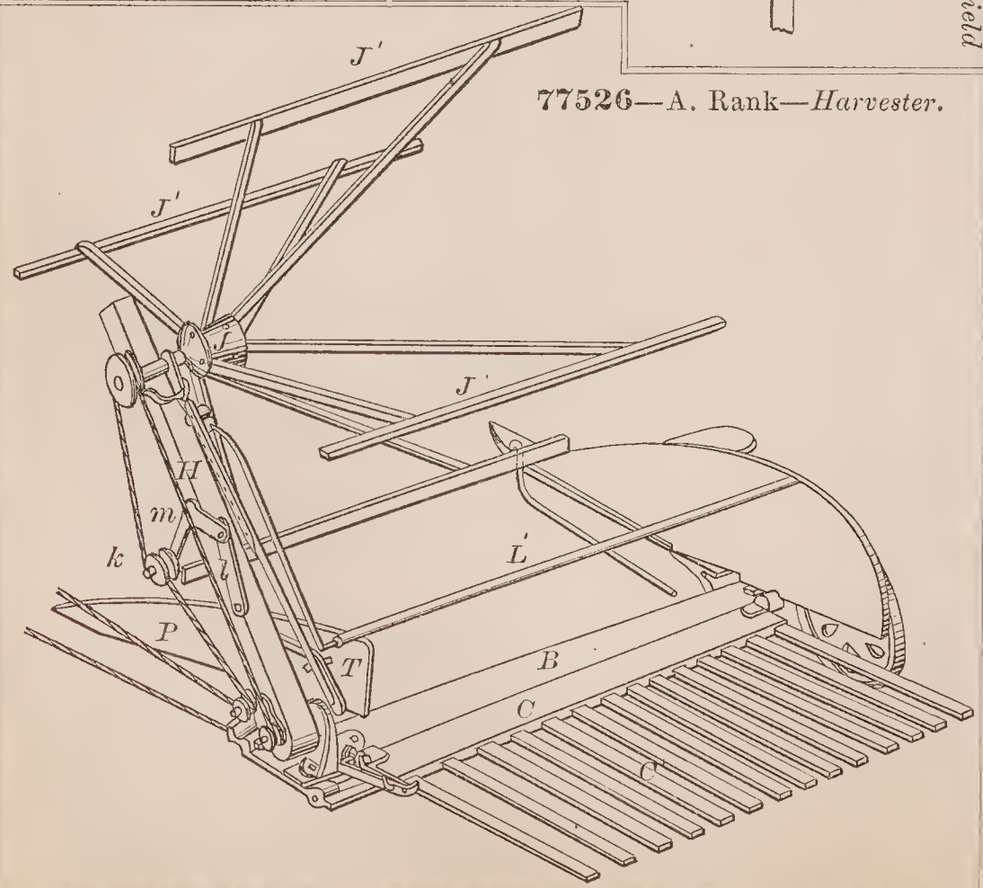
77523—D. R. Prindle—*Field Roller.*



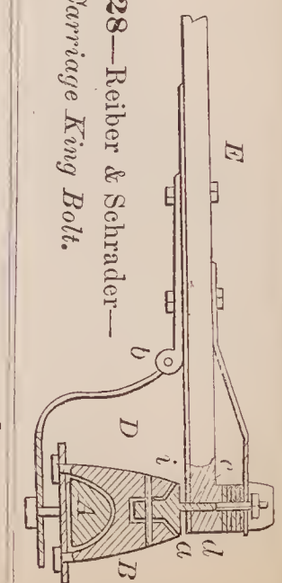
77529—F. Richardson—*Boot Heel.*



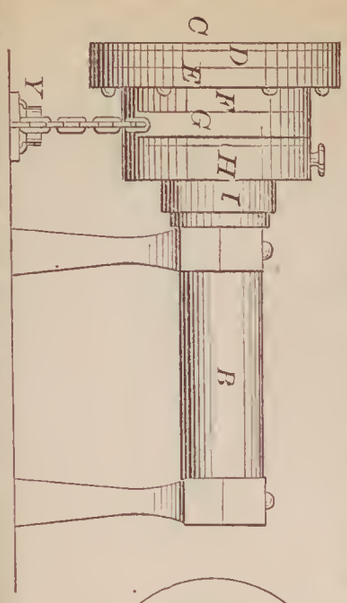
77526—A. Rank—*Harvester.*

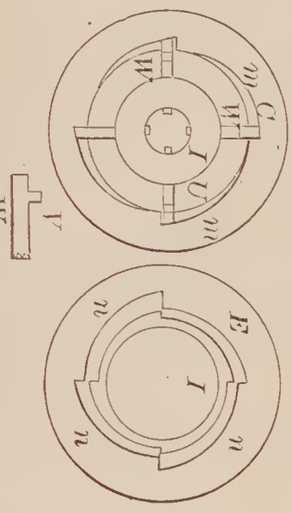


77528—Reiber & Schrader—*Carriage King Bolt.*

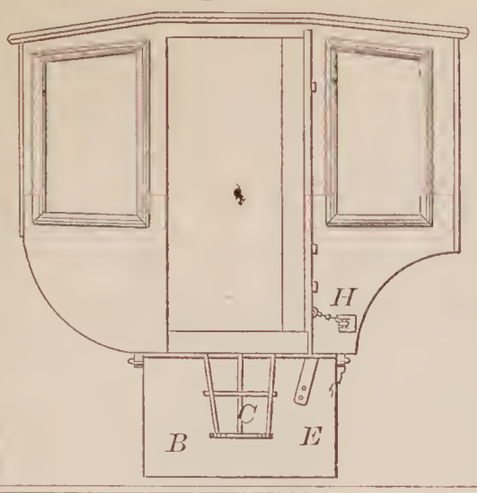


77530—J. H. Richardson—*Screw Cutting Machine.*

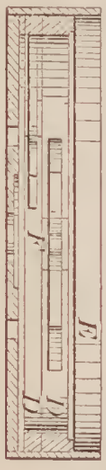




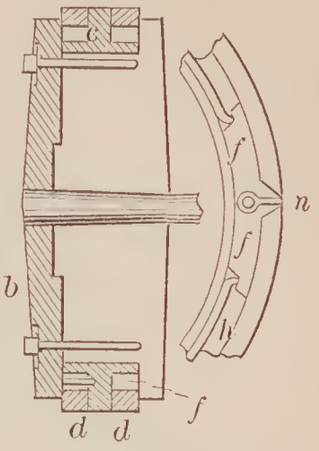
77531—A. Q. Ross—*Carriage Step Screen.*



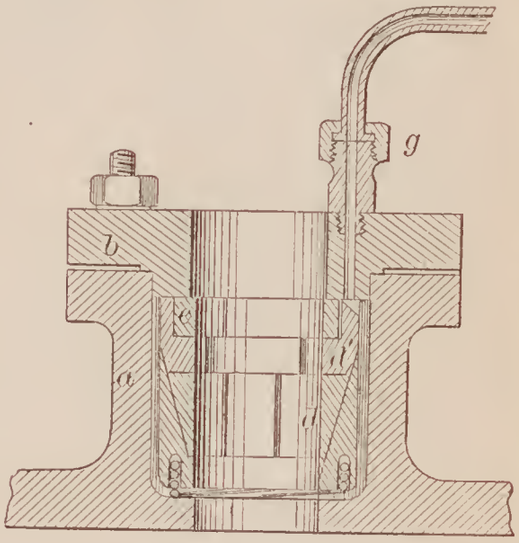
77532—F. J. Roth—*Piston Packing.*



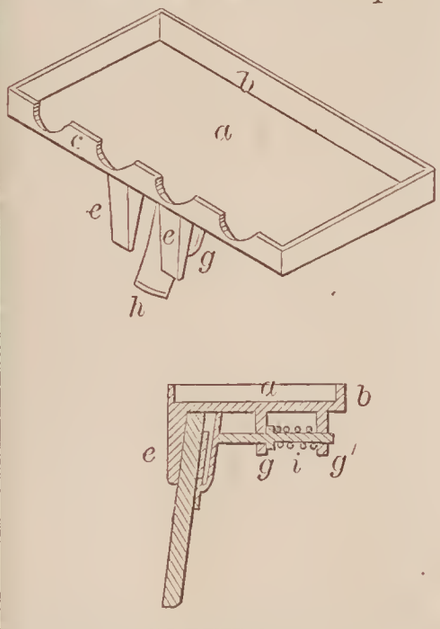
77533—F. J. Roth—*Piston Packing.*



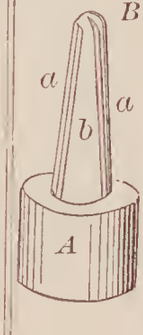
77534—F. J. Roth—*Stuffing Box Packing.*



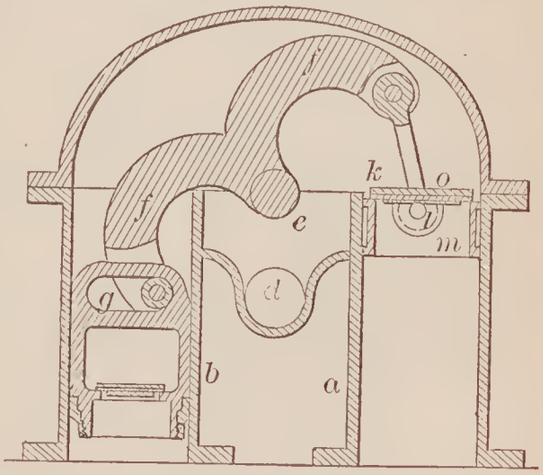
77536—M. Safford—*Soap Holder.*



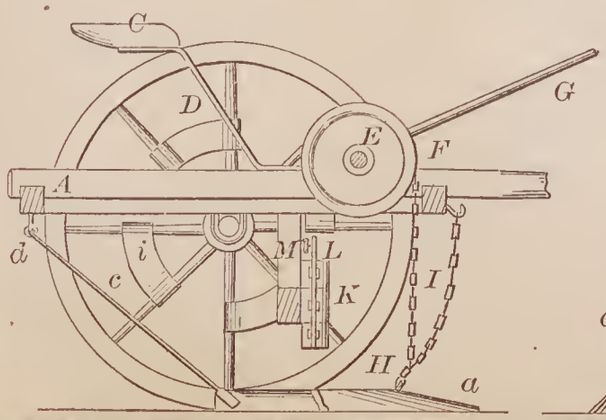
77539—Scheverell & Rembert—*For Treating Piles.*

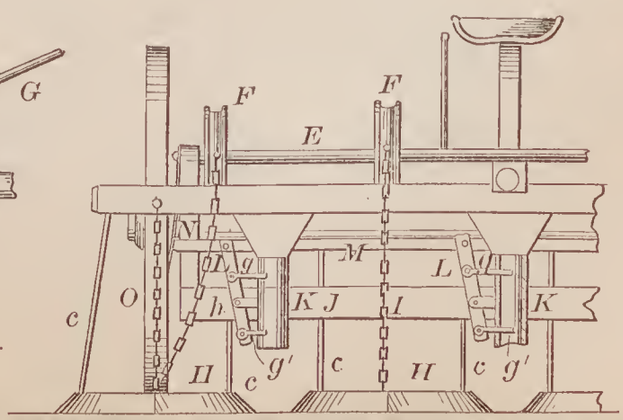


77538—O. Salgee—*Pump Piston.*



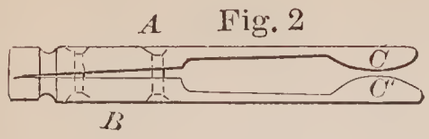
77535—C. Rubbles—*Planter and Cultivator.*



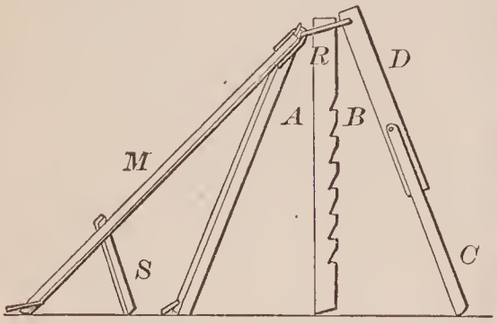


77540—E. Scaver—*Clothes Pin.*

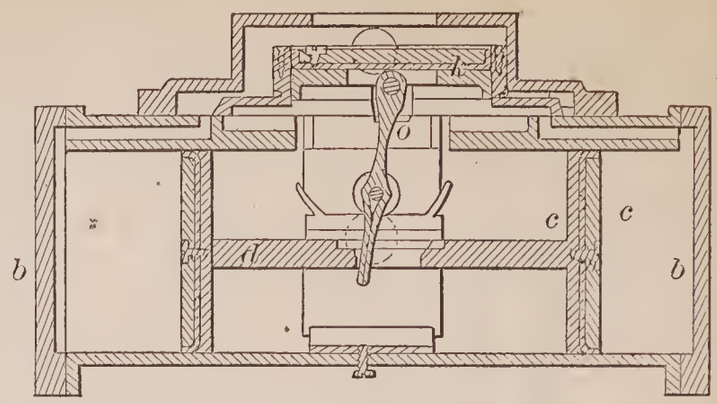
Fig. 2



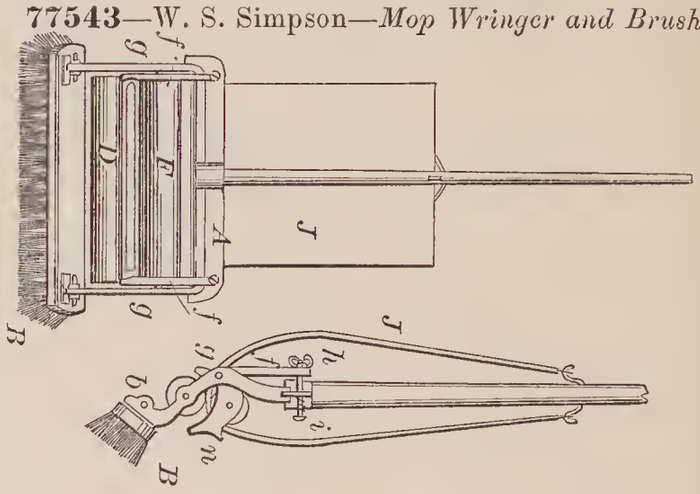
77541—J. Sheldon—*Derrick.*



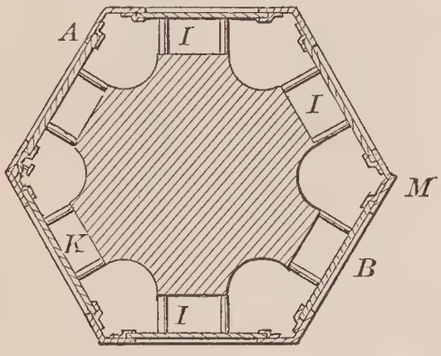
77542—G. Sickels—*Water Meter.*



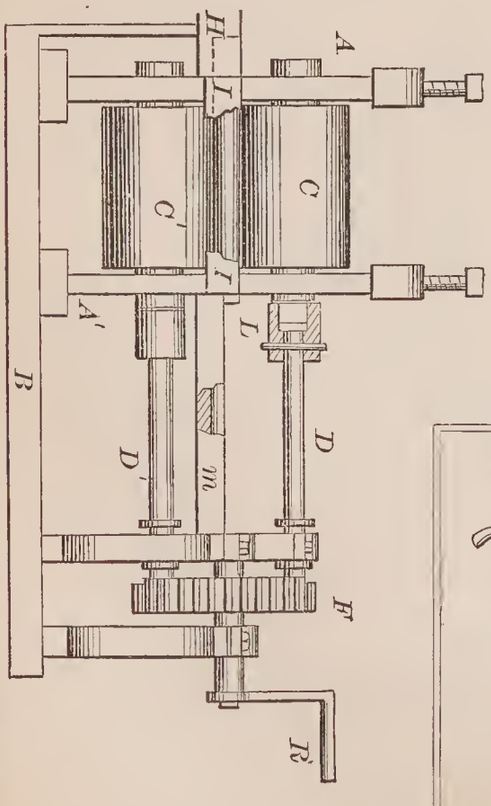
77543—W. S. Simpson—*Mop Wringer and Brush.*



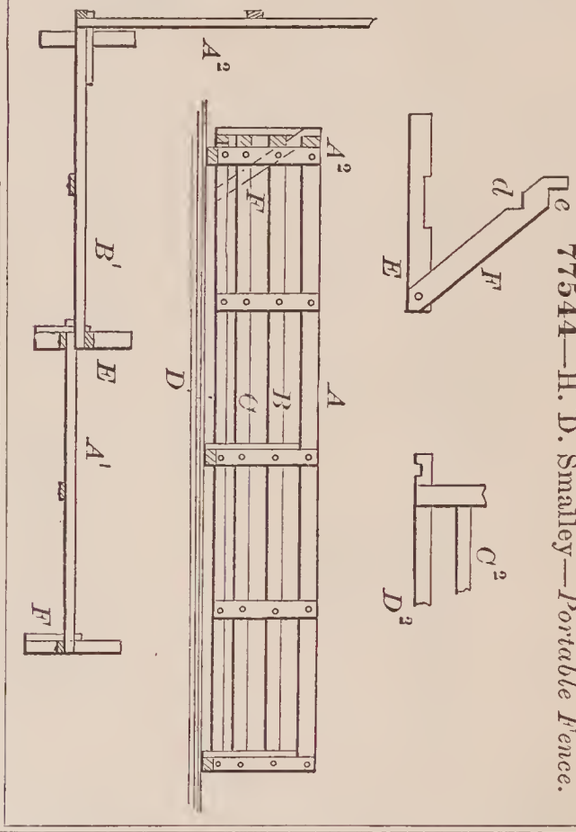
77545—J. Sonnedecker—*Advertising Frame.*



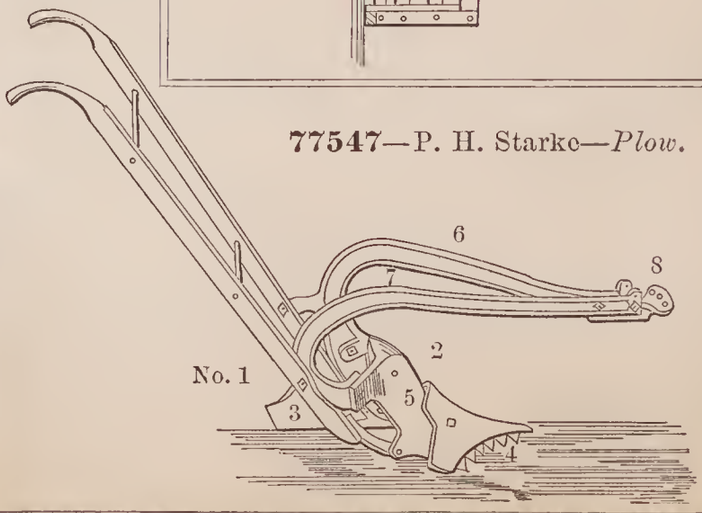
77546—J. Stackhouse—*Polishing Machine.*



77544—H. D. Smalley—*Portable Fence.*

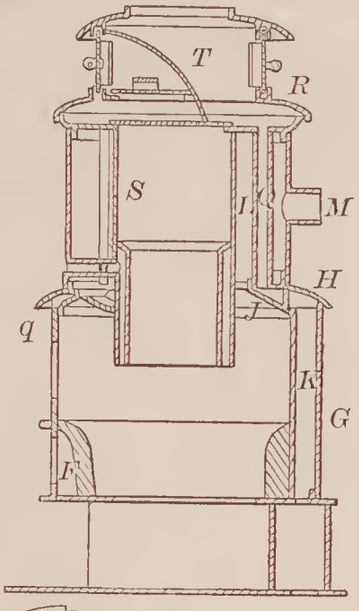


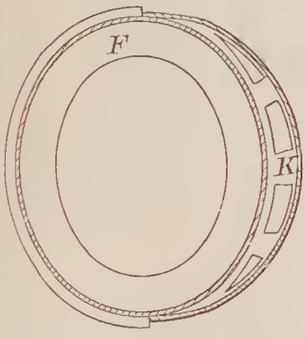
77547—P. H. Starke—*Plow.*



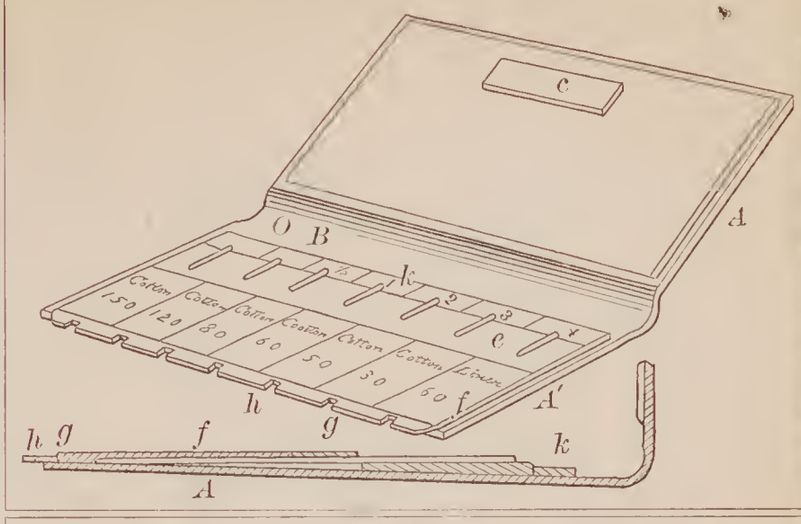
77548—J. & J. Stock—*Chair.*

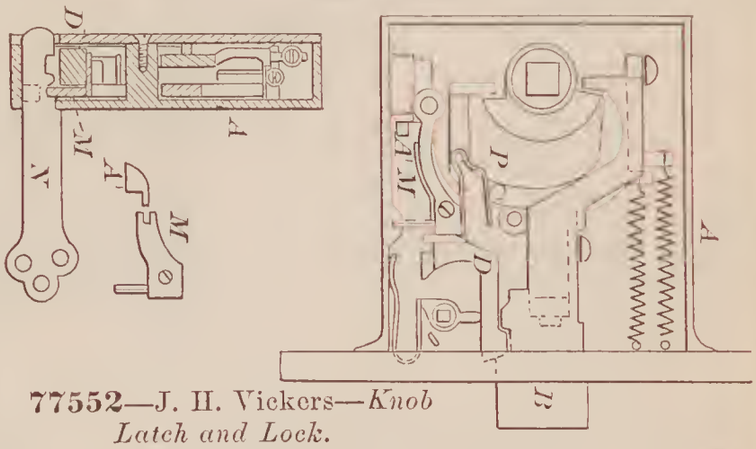
77549—Stuart & Bridge—*Stove.*





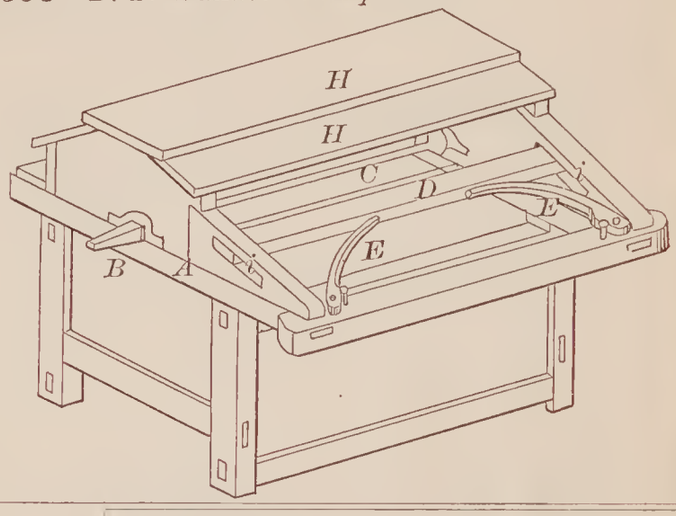
77551—J. F. Umpleby—*Needle Book.*



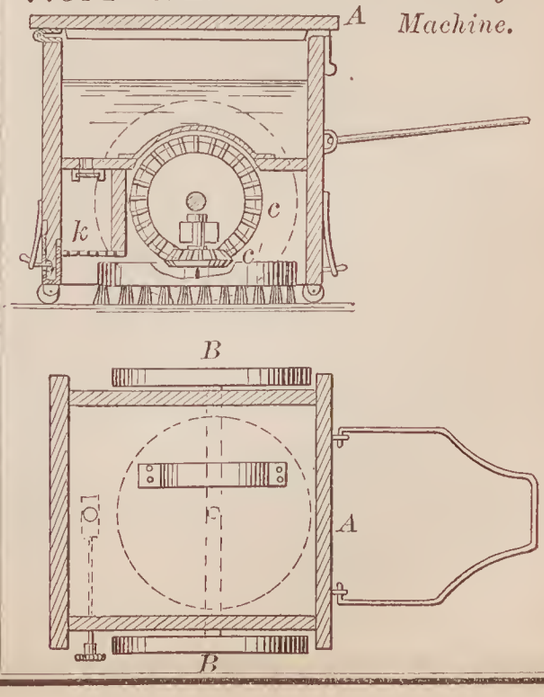


77552—J. H. Vickers—*Knob Latch and Lock.*

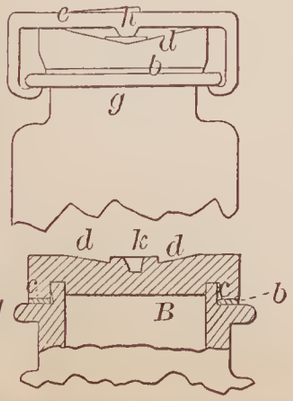
77553—D. F. Wallace—*Hemp Brake.*



77554—C. E. Warcham—*Scrubbing Machine.*

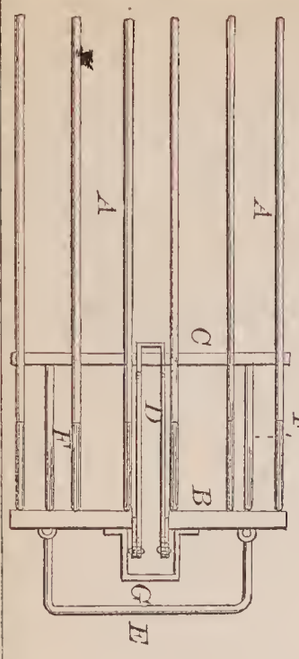


77555—J. Weidig—*Fruit Jar.*

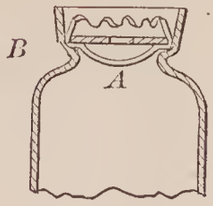


77550—C. H. Thurston—*Attaching Knobs to Screws.*

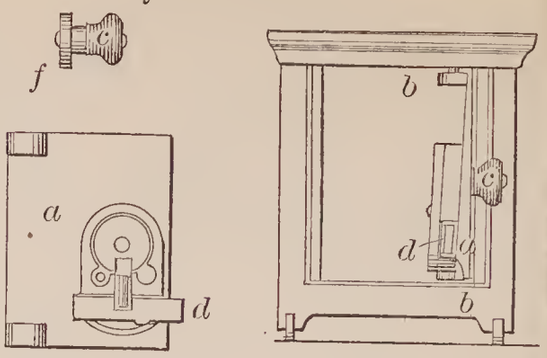
77556—M. M. Wells—*Grain Rake.*

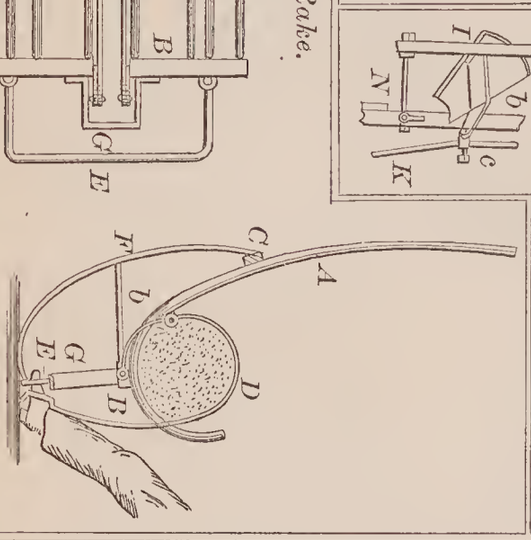


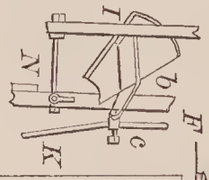
77559—Worcester & Brown—*Fruit Jar.*

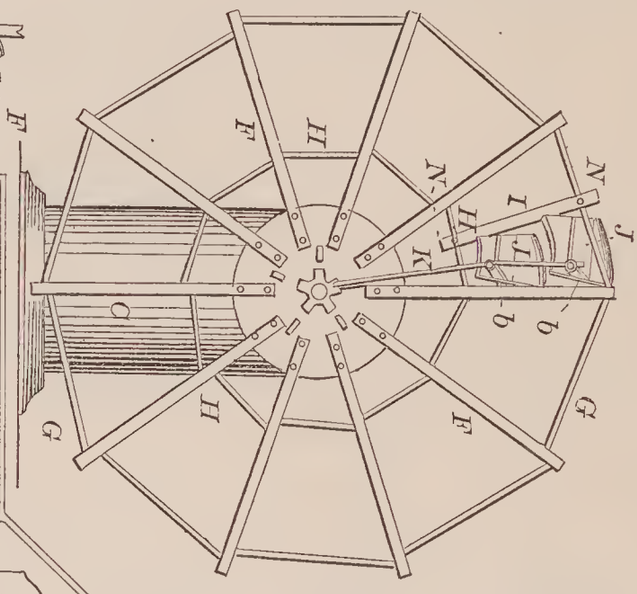


77560—A. & G. F. Wright—*Toy Safe and Puzzle Lock.*



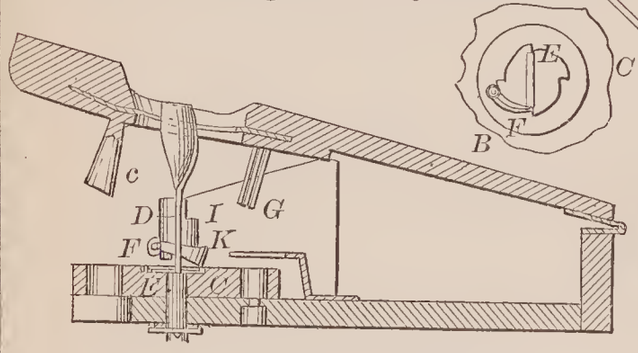




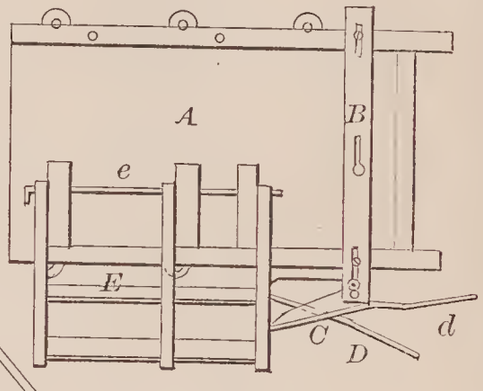


77557—J. A. Wheeler—*Wind Mill.*

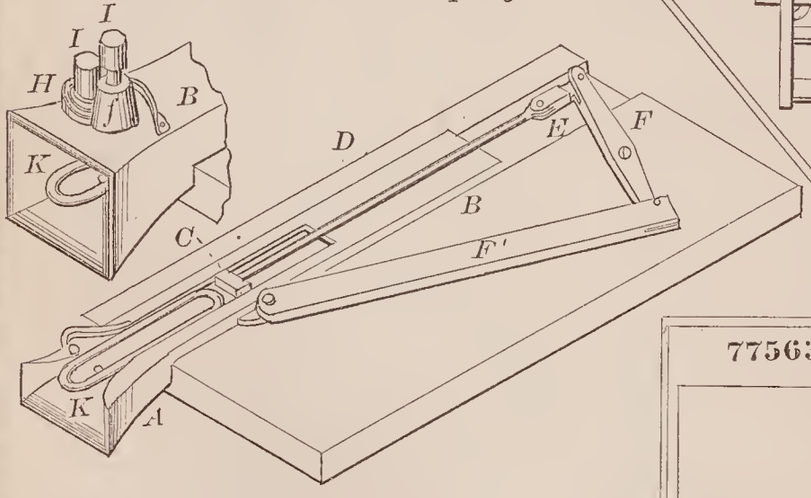
77561—R. Wright—*Cherry Stoner.*



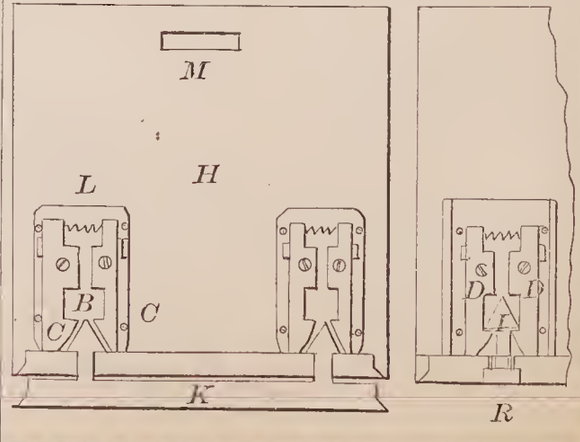
77562—P. C. Yost—*Corn Harvester.*



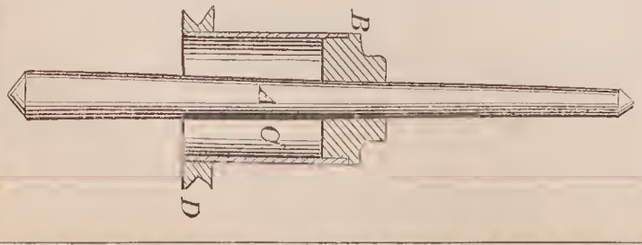
77558—N. Whitten—*Car Coupling.*



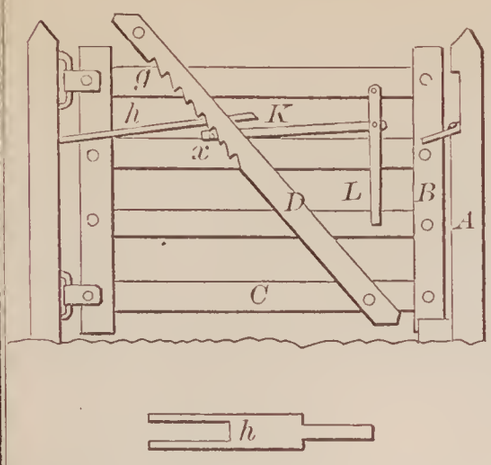
77563—A. W. Adams—*Meter Safe.*



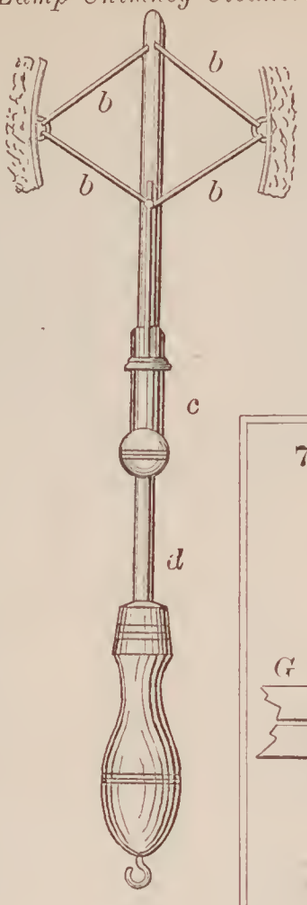
77566—E. Attwood—*Spindle.*



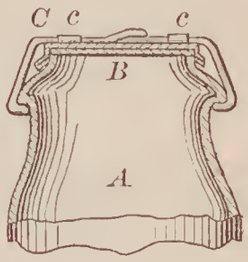
77564—J. Adams—*Gate.*



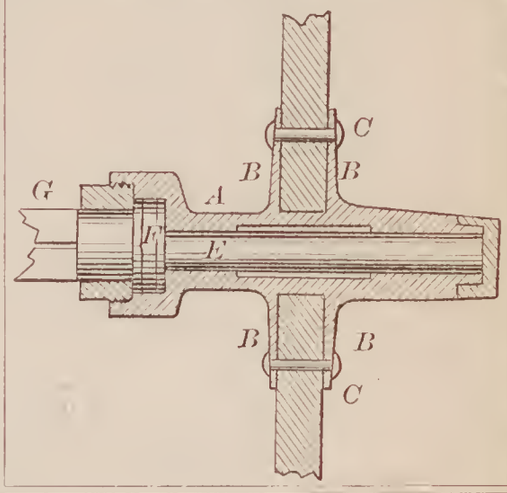
77567—L. J. Baker—*Lamp Chimney Cleaner.*



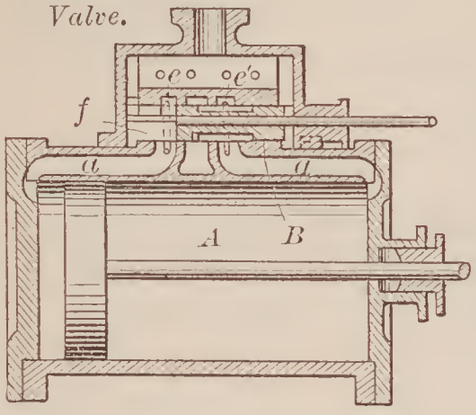
77570—T. E. Batterson—*Fruit Jar.*



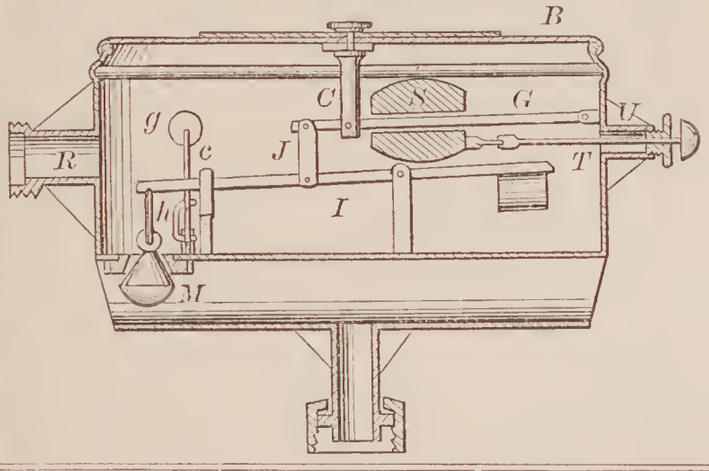
77568—W. W. Ball—*Metal Hub.*



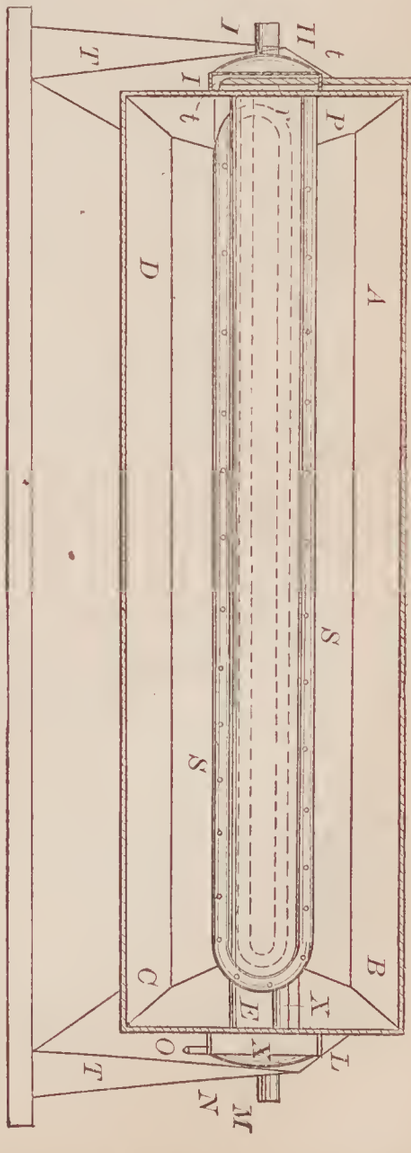
77569—J. S. Barden—*Slide Valve.*



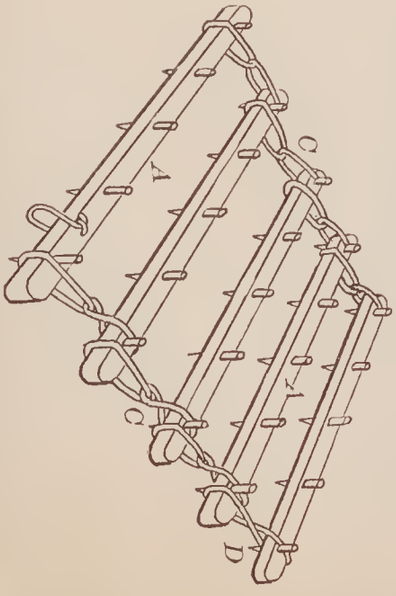
77572—E. Beggs—*Gas Governor.*



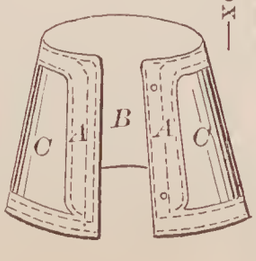
77571—H. J. Beckwith—*For Cleaning Feathers.*



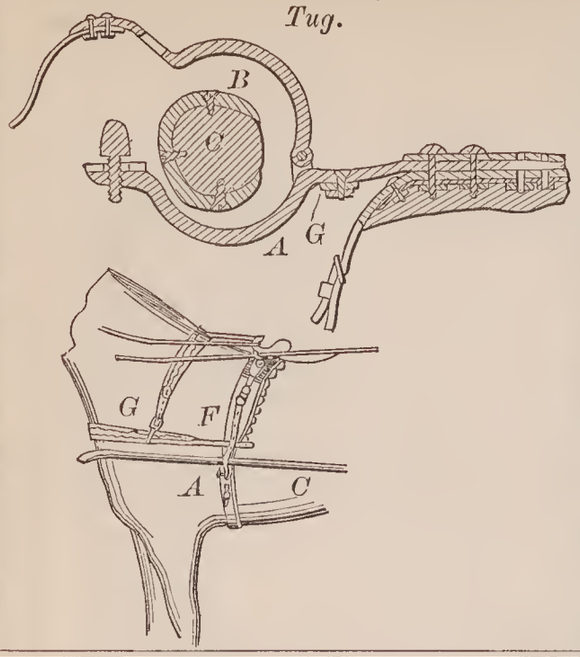
77574—C. D. Blim—*Flexible Harrow.*



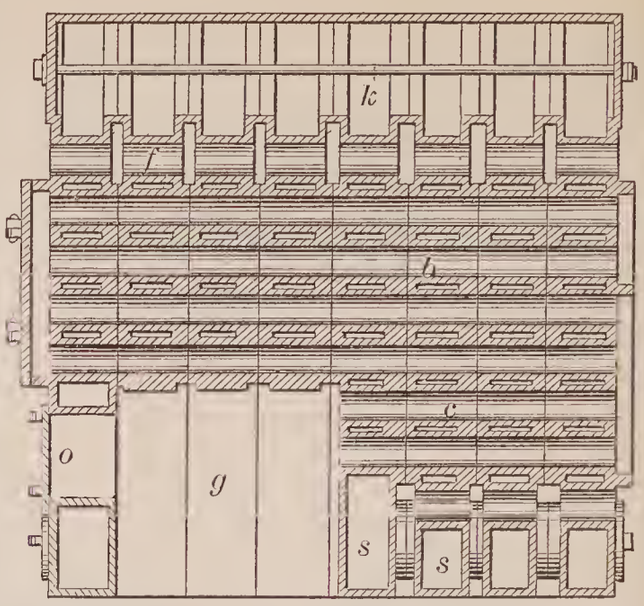
77573—Blakey & Fox—*Collar and Cuff.*



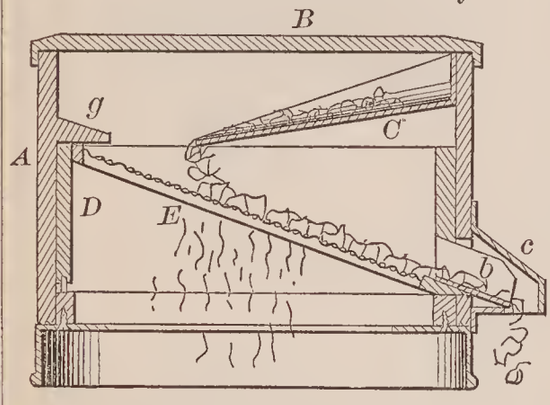
77575—H. Bowers—*Draught and Shaft Tug.*



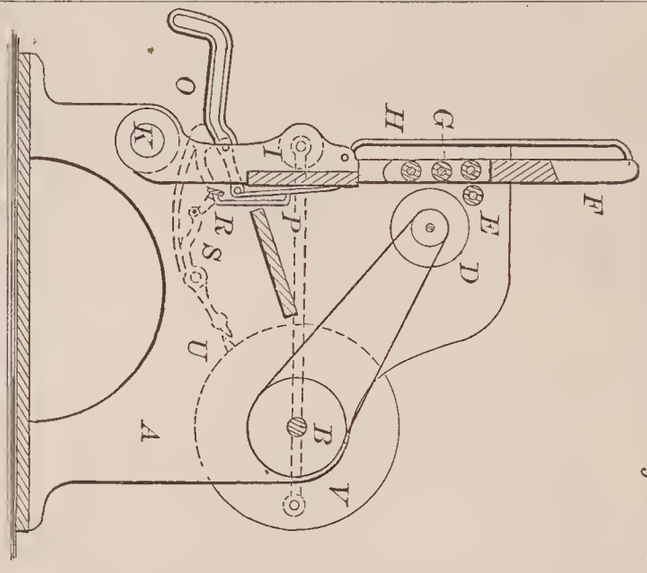
77576—J. Bradley—*Boiler for Heating.*



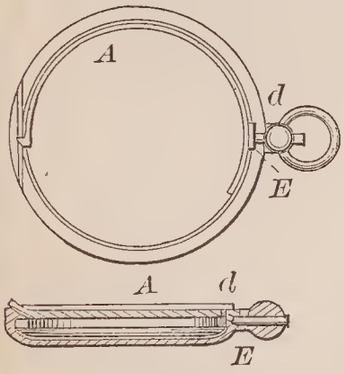
77578—C. Breasted—*Barrel Sifter.*



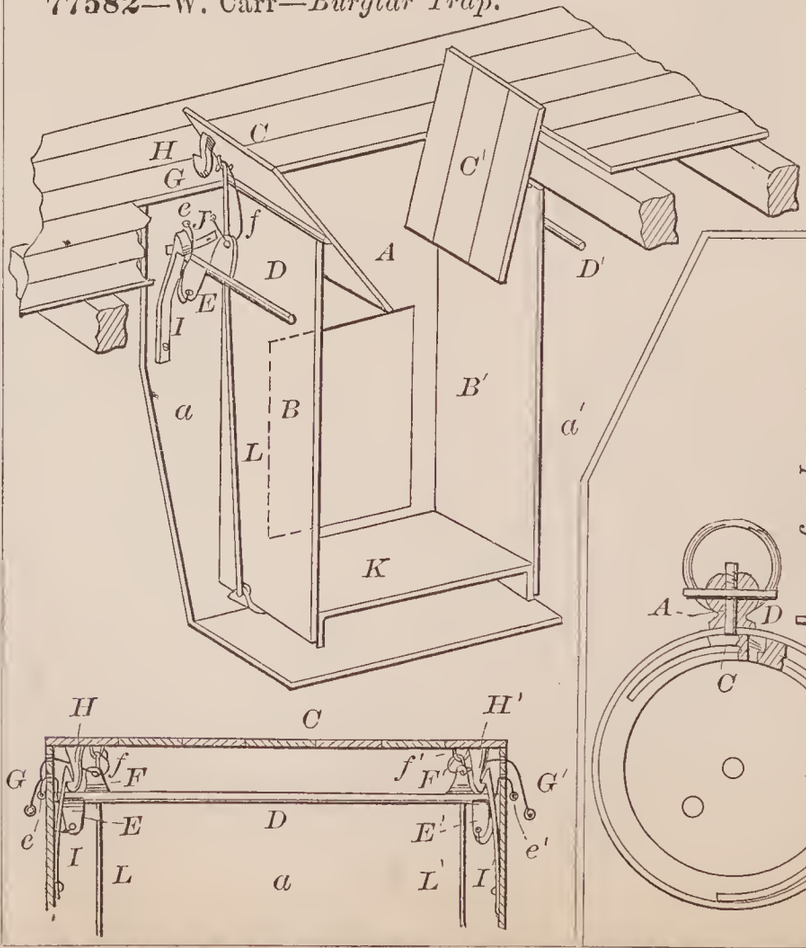
77577—W. Braidwood—*Printing Press.*



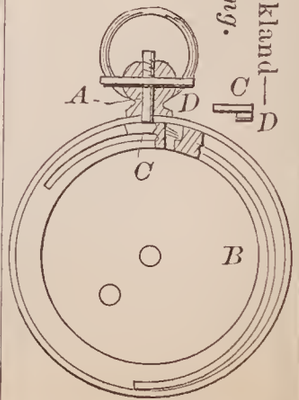
77579—E. H. Buckland—*Watch Case Spring.*



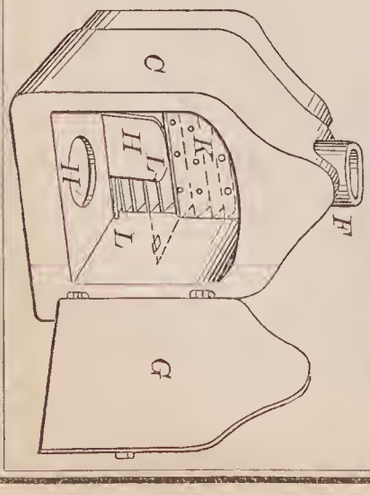
77582—W. Carr—*Burglar Trap.*



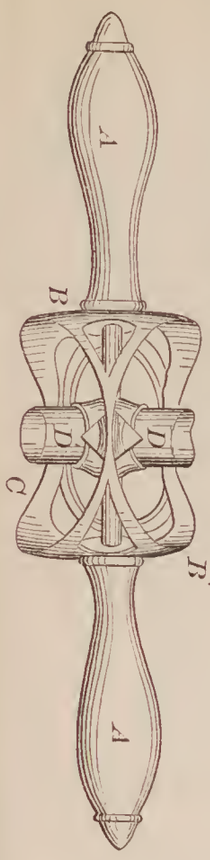
77580—E. H. Buckland—*Watch Case Spring.*

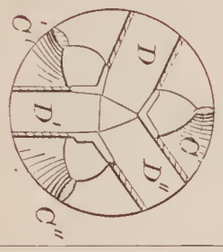


77581—E. Bussey—*Oven.*



77583—S. E. Clapp—*Biscuit Cutter.*





77584—Clarke & Edson—*Steam Engine Register.*

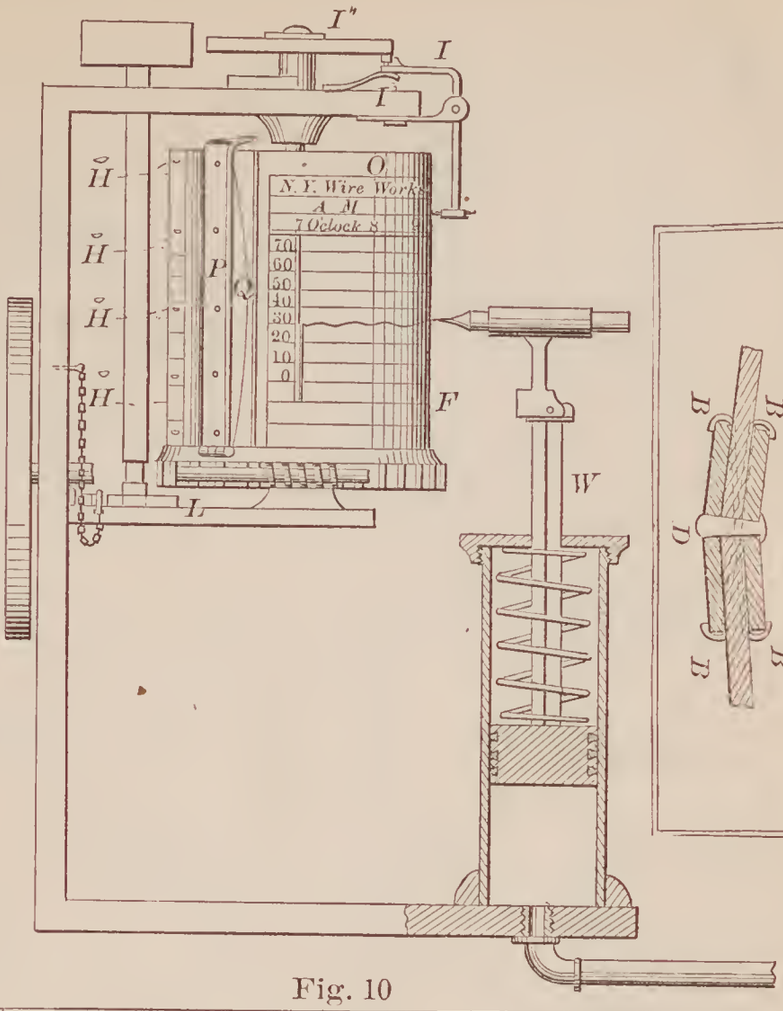
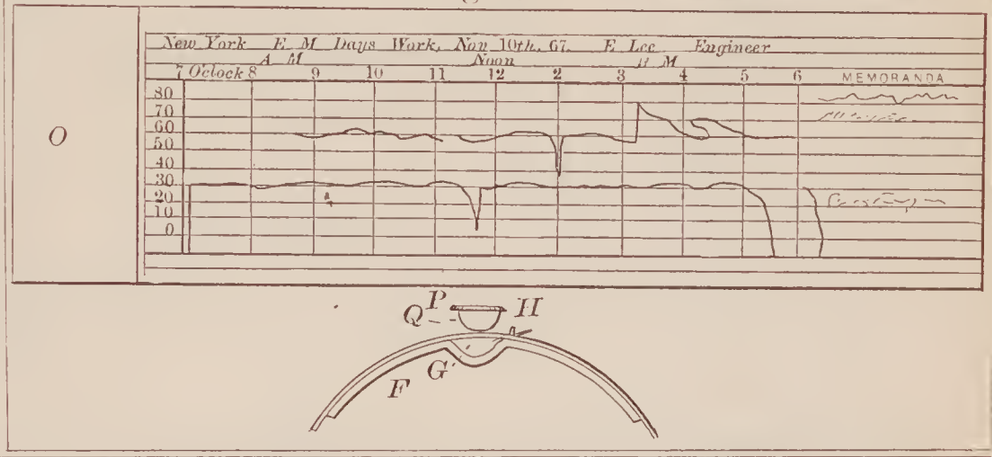
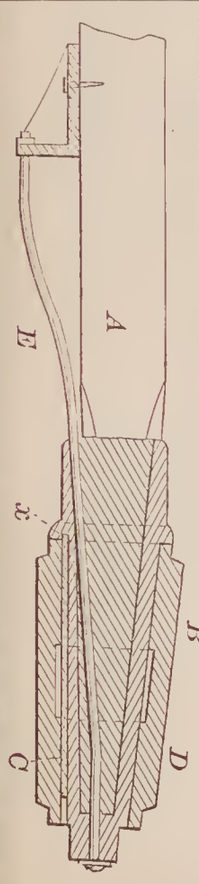


Fig. 10

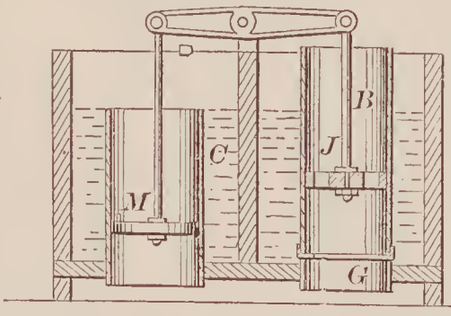


77589—W. F. Converse—*Portable Fence.*

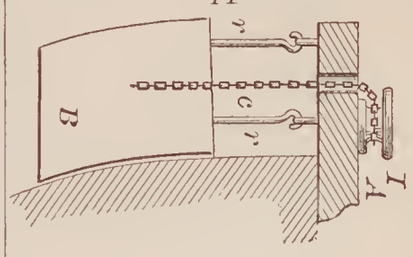
77585—G. E. Clarke—*Skein and Axle Box.*



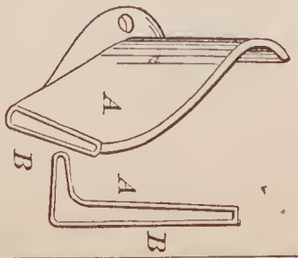
77586—J. R. Clarke—*Waste Gate.*



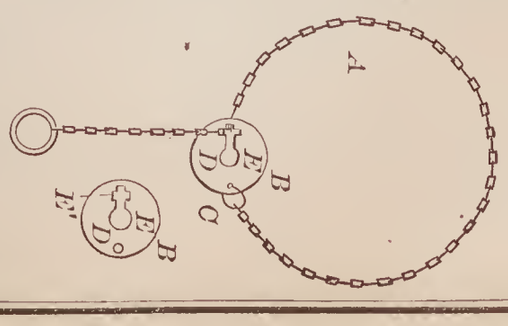
77590—W. H. Conway—*Steering Apparatus.*



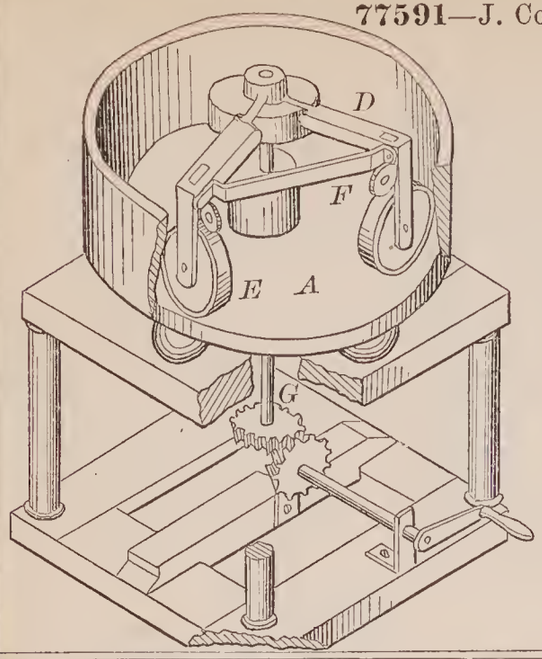
77588—J. P. Collins—*Water Wheel.*

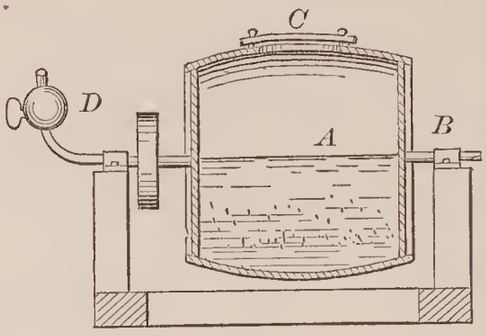


77587—L. H. Colburn—*Bag Fastener.*

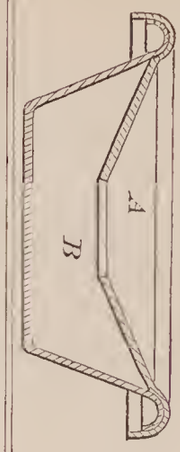


77591—J. Corson—*Collecting Metals from Ores.*

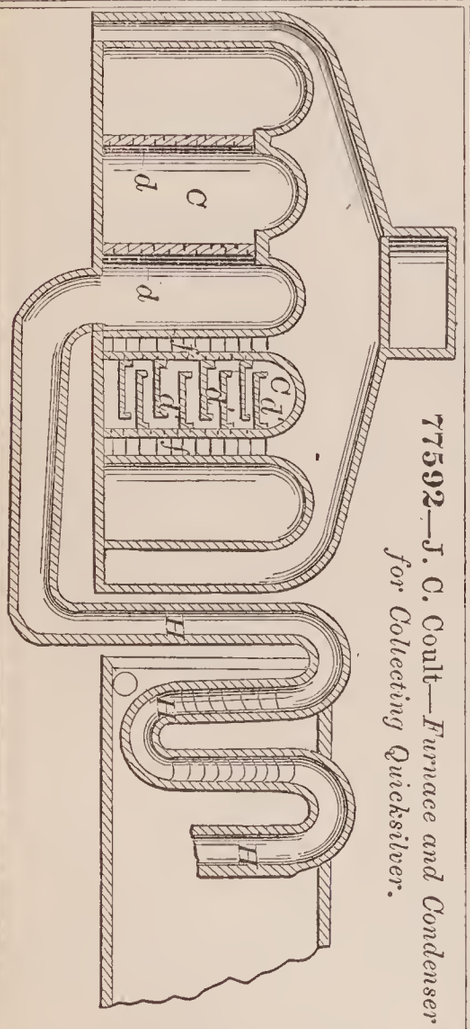




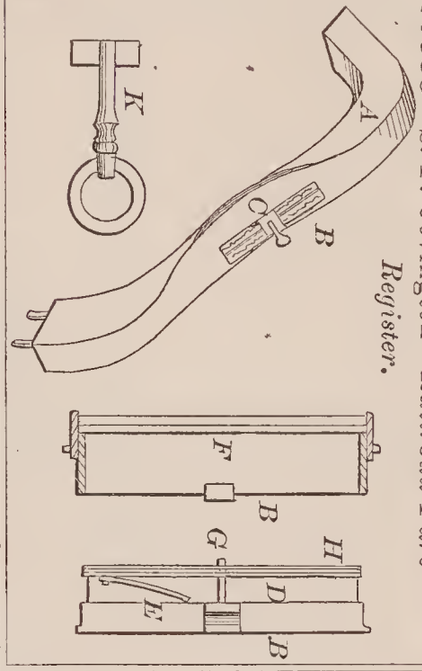
77594—F. E. Darrow—*Spittoon.*



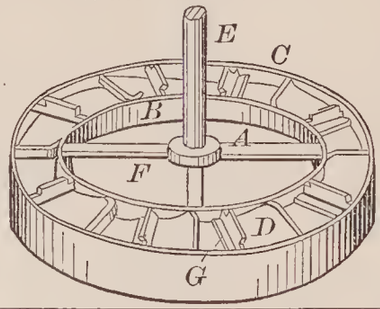
77592—J. C. Coult—*Furnace and Condenser for Collecting Quicksilver.*



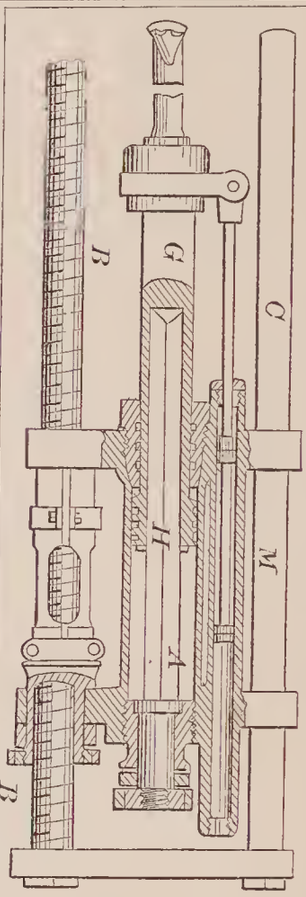
77593—S. F. Covington—*Railroad Fare Register.*

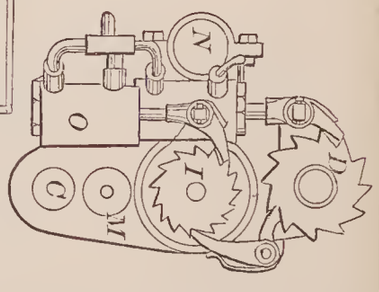


77595—Dewey & Fosdick—*Water Wheel.*

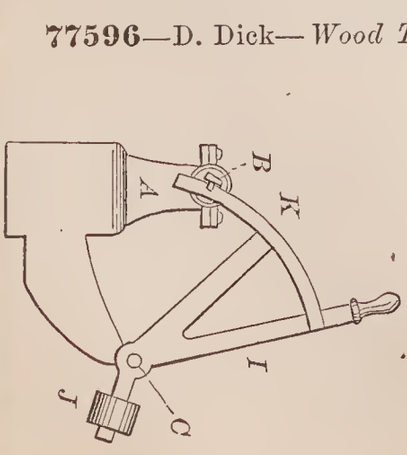


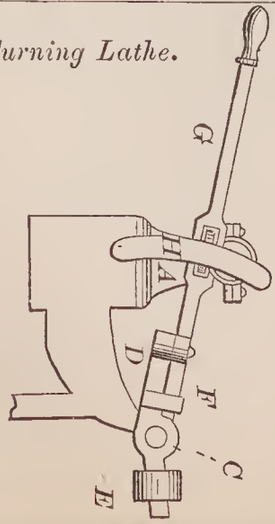
77597—F. B. Doering—*Rock Drilling Machine.*



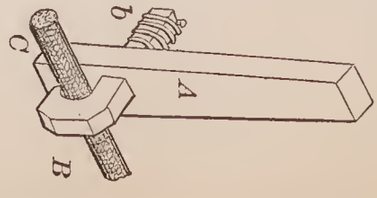


77596—D. Dick—*Wood Turning Lathe.*

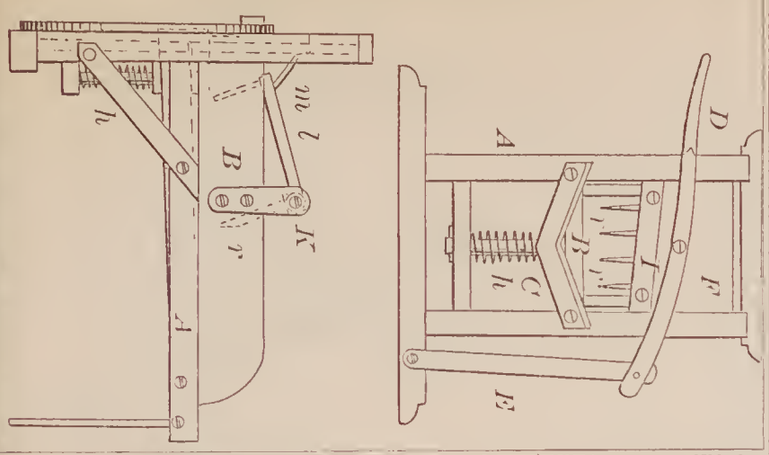




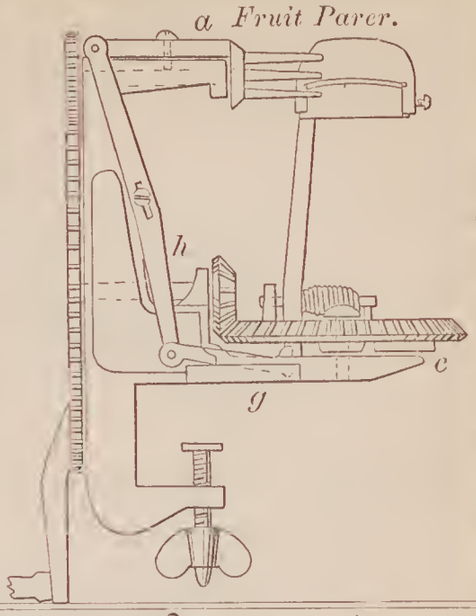
77598—W. M. Doty—*Clothes Pin.*



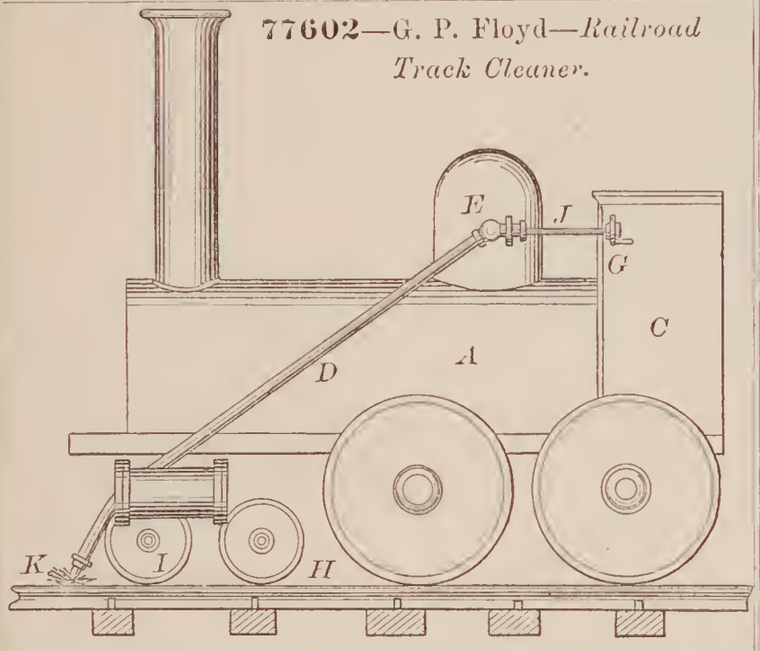
77599—G. A. Edwards—*Straw Cutter.*



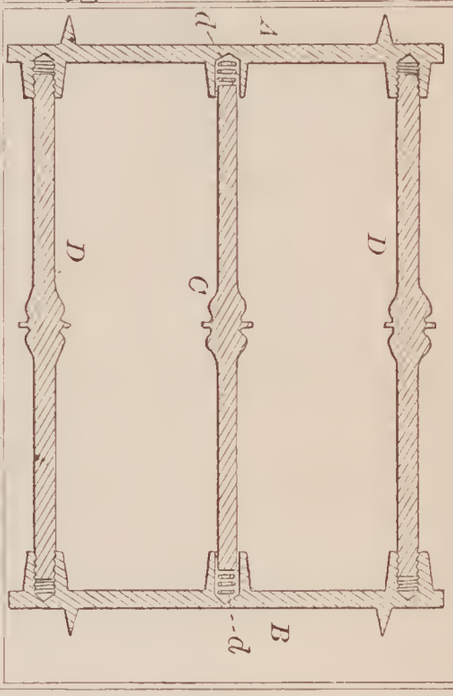
77600—Farewell & Goddard—*a Fruit Parer.*



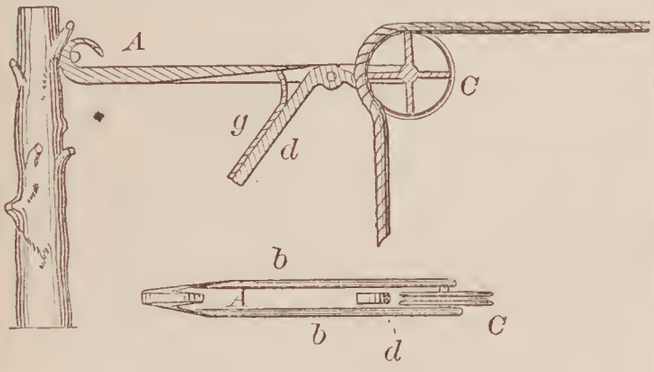
77602—G. P. Floyd—*Railroad Track Cleaner.*



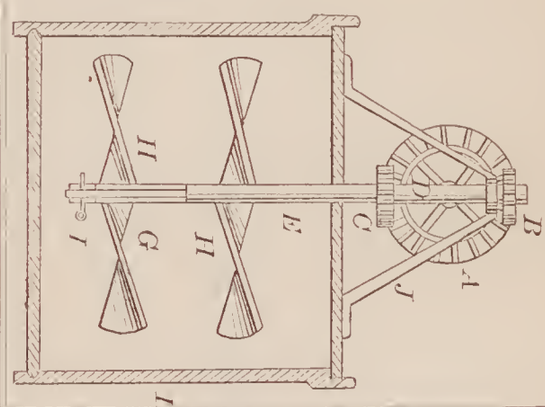
77603—J. F. Ford—*Window Safety Guard.*



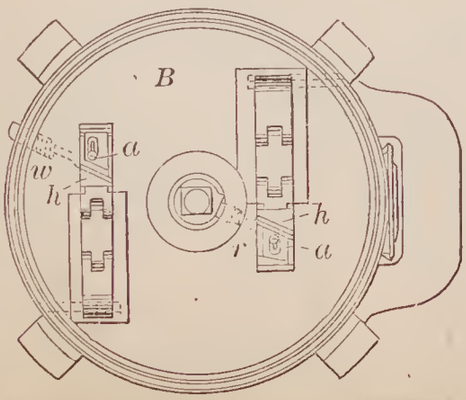
77605—E. H. Gray—*Clothes Line Hook.*

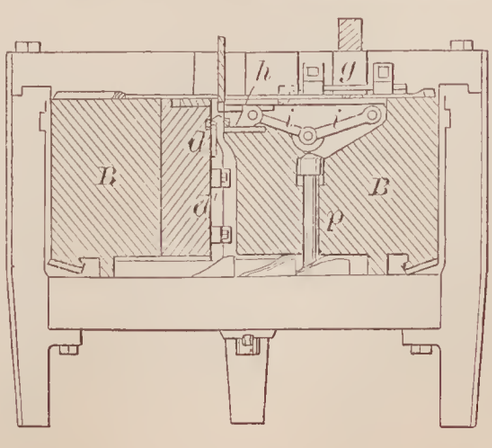


77601—J. E. Finley—*Churn.*

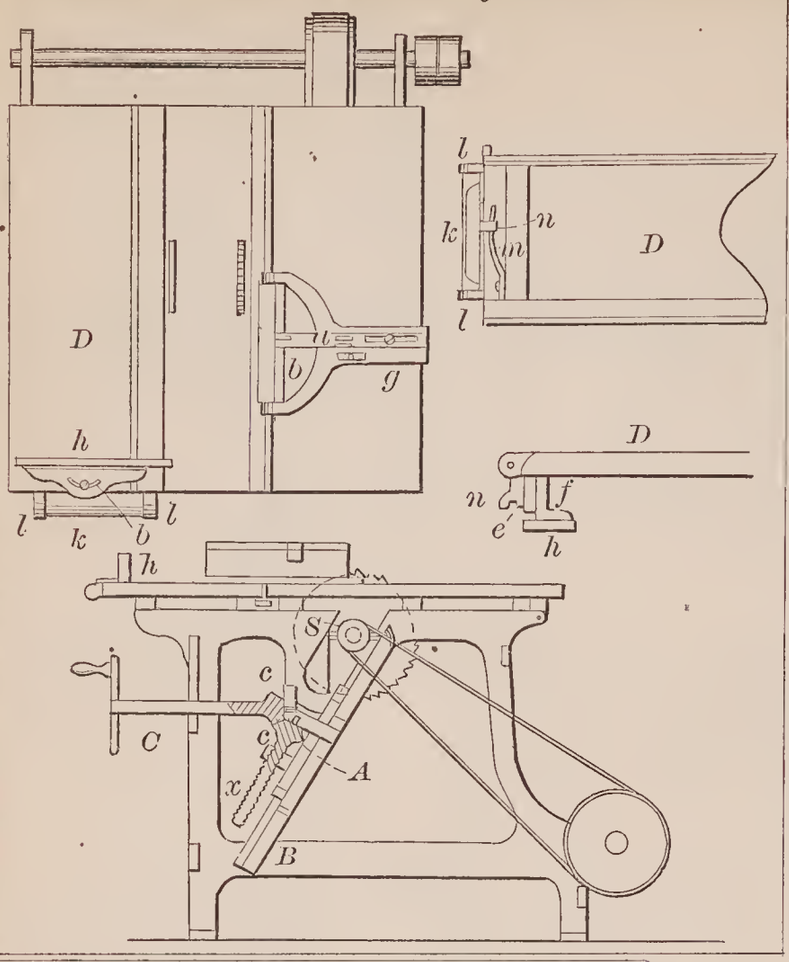


77604—R. C. Grant—*Nail Machine.*

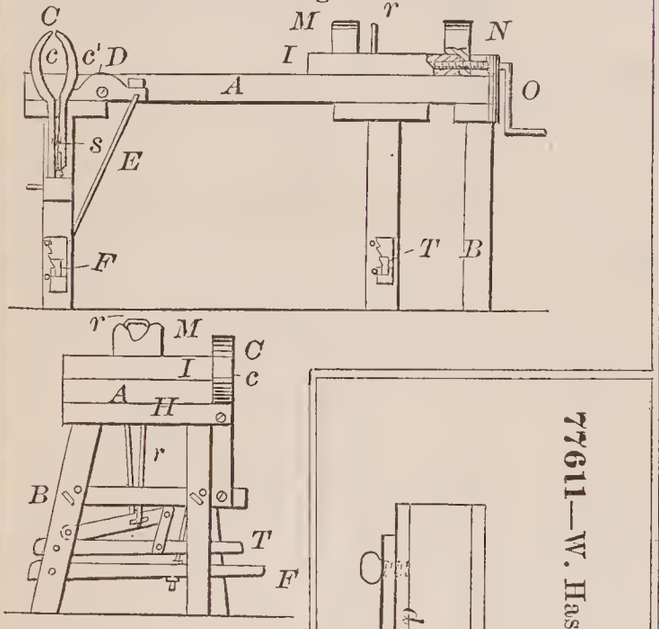




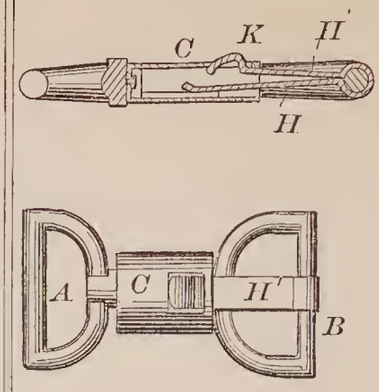
77606—J. B. Grosvenor—*Sawing Machine.*



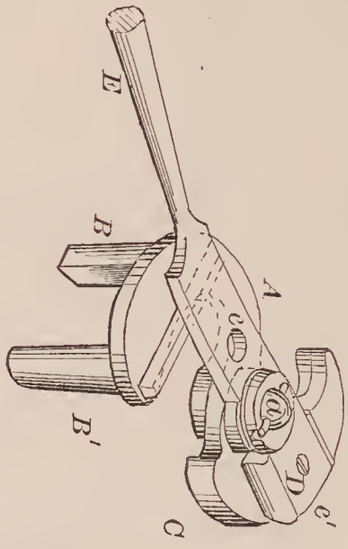
77607—Hahn & Vogler—*Bench.*



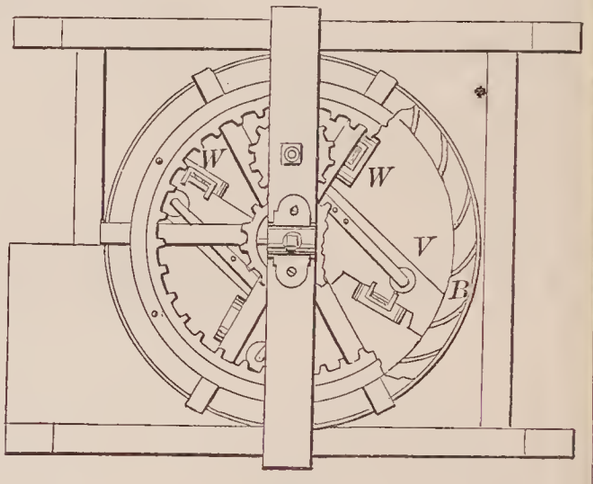
77608—Hale & Hall—*Rein Shackle.*

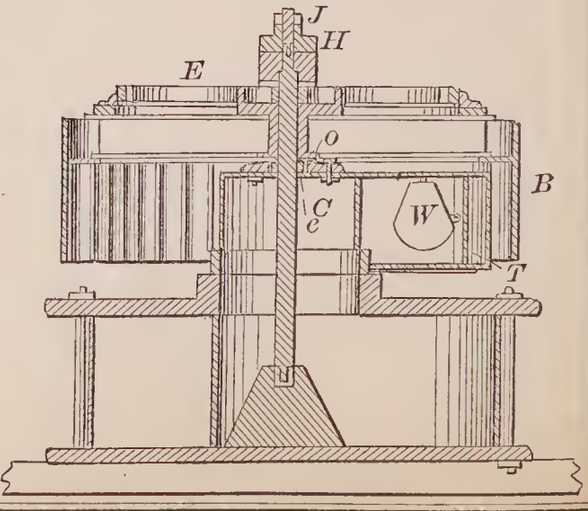


77610—E. A. Hall—*Floor Clamp.*

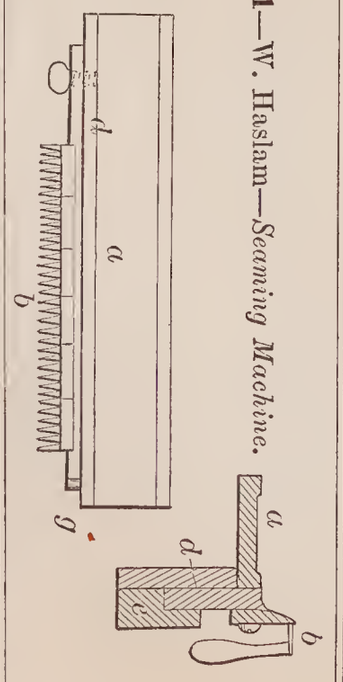


77609—A. J. Hall—*Water Wheel.*

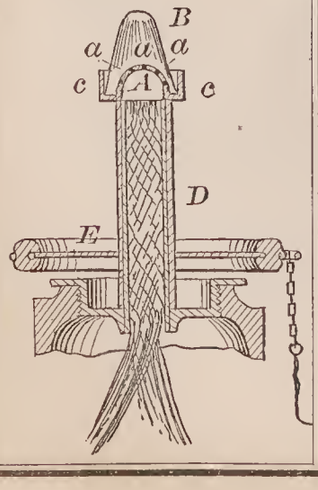




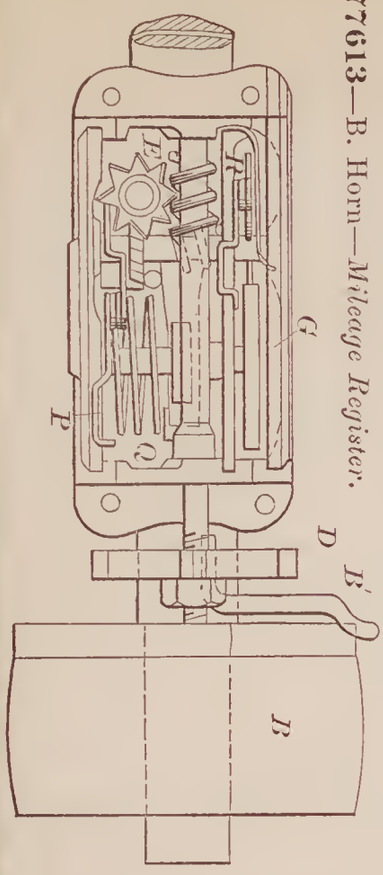
77611—W. Haslam—*Seaming Machine.*



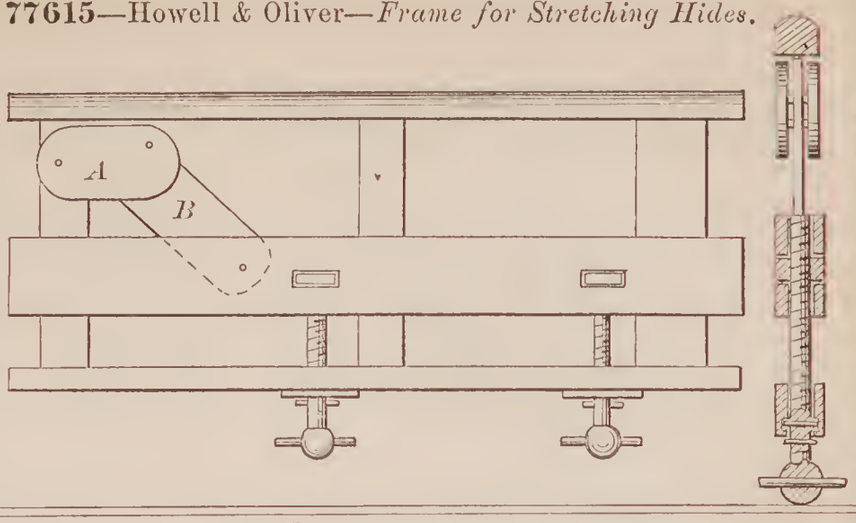
77612—Hopkins & Anderson—*Vapor Burner.*



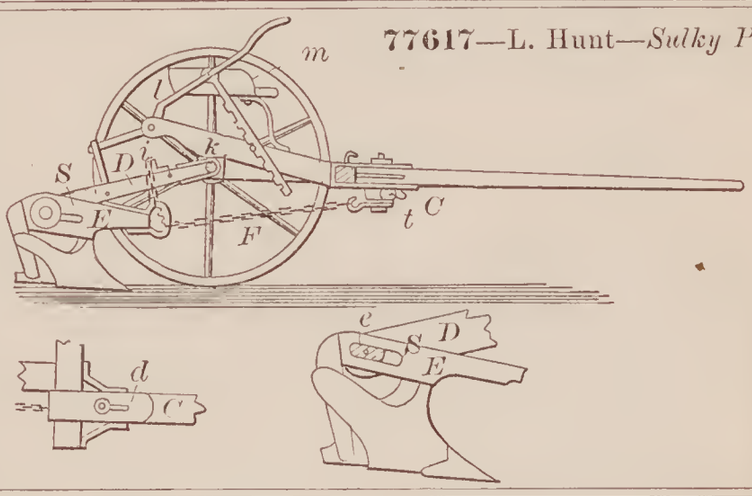
77613—B. Horn—*Mileage Register.*



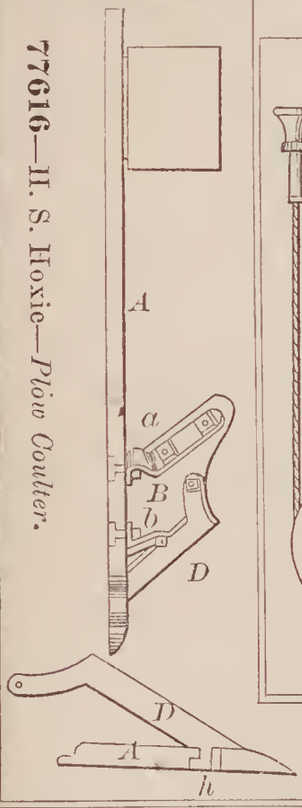
77615—Howell & Oliver—*Frame for Stretching Hides.*



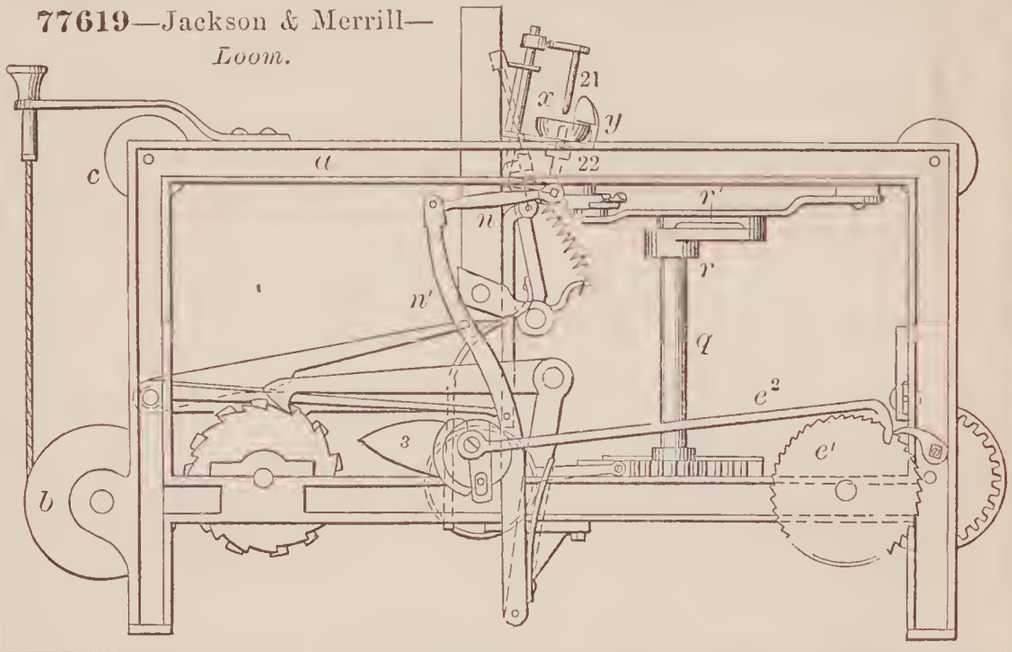
77617—L. Hunt—*Sulky Plow.*



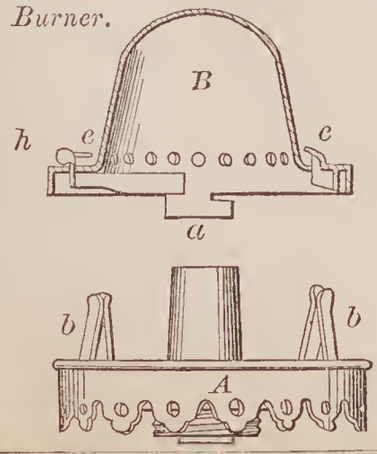
77616—H. S. Hoxie—*Plow Coulter.*



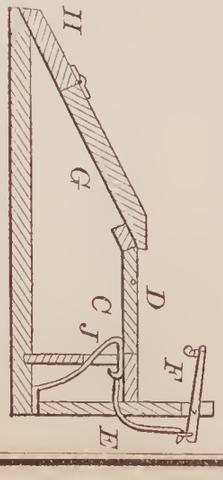
77619—Jackson & Merrill—*Loom.*



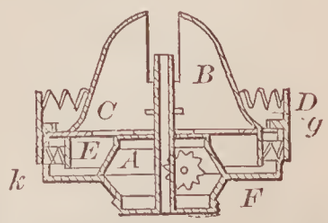
77620—M. Jincks—*Lamp Burner.*



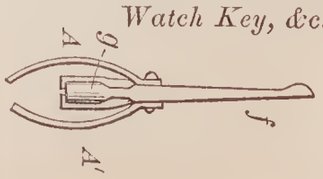
77622—P. W. King—*Animal Trap.*



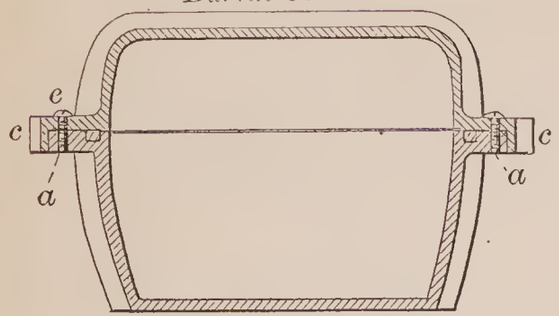
77614—W. W. Horton—*Lamp Burner.*



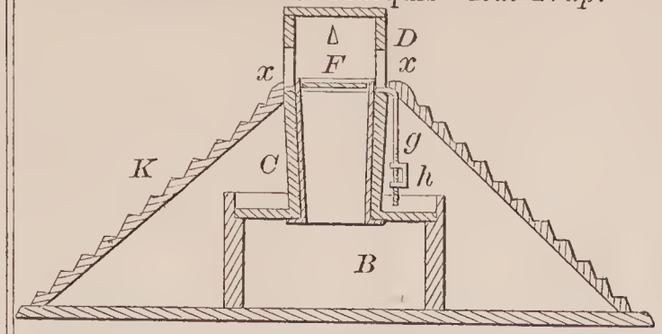
77621—D. A. Jones—*Tweezers, Watch Key, &c.*



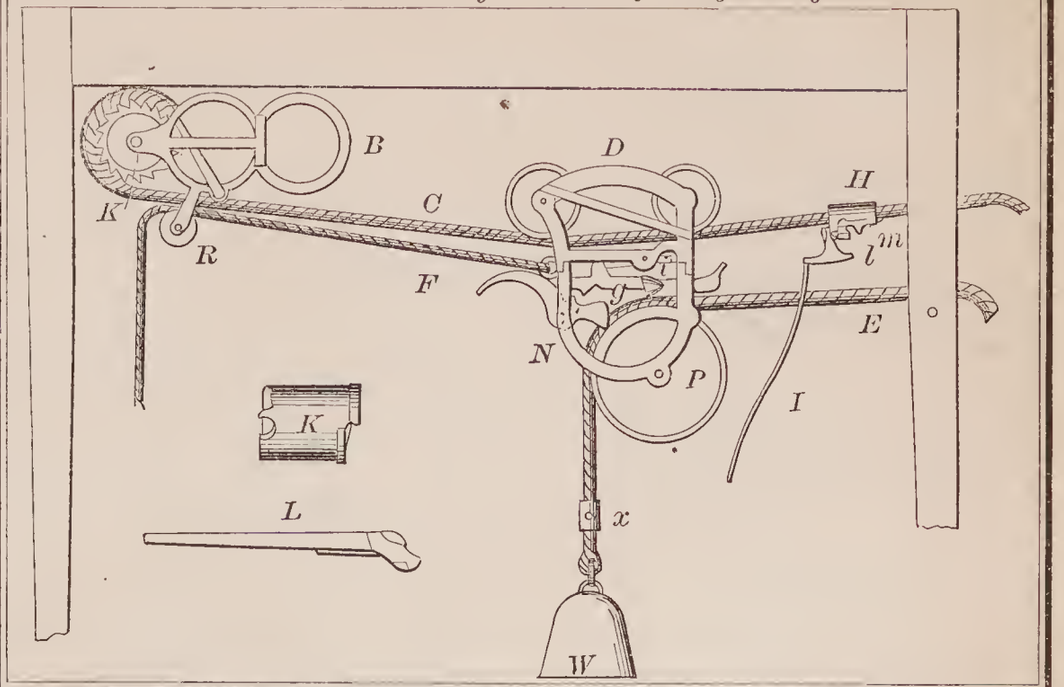
77627—P. F. Lawshe—*Self-Sealing Burial Case.*

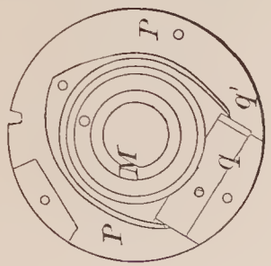


77631—W. C. Marquis—*Rat Trap.*

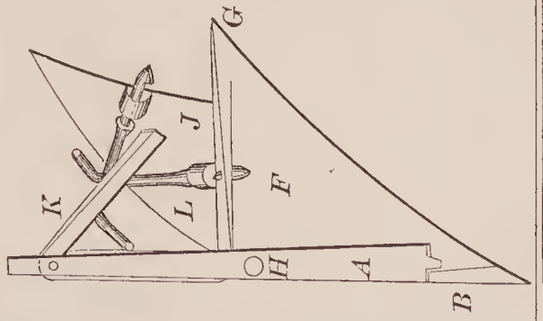


77629—A. D. Manley—*Hoisting and Transferring Pulley.*

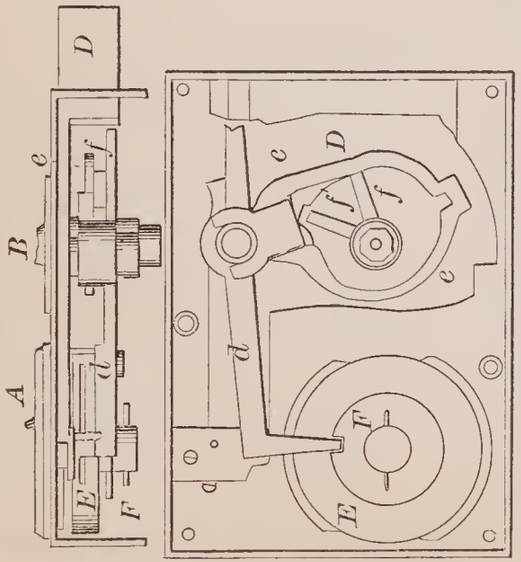




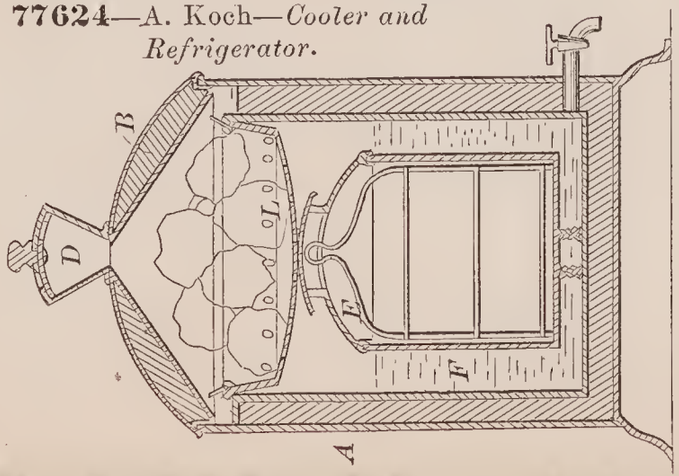
77630—D. A. Manuel—*Side Hill Plow.*



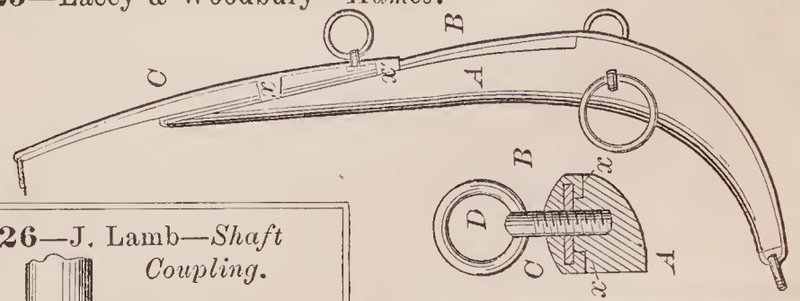
77623—J. Klein—*Permutation Lock.*



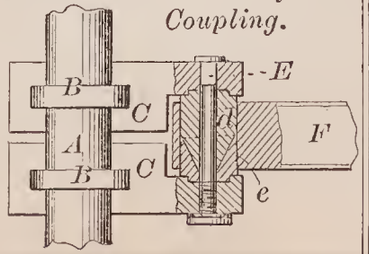
77624—A. Koch—*Cooler and Refrigerator.*



77625—Lacey & Woodbury—*Hames.*

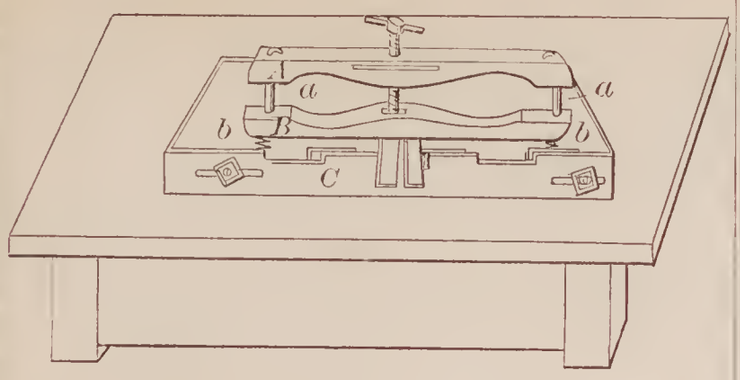


77626—J. Lamb—*Shaft Coupling.*

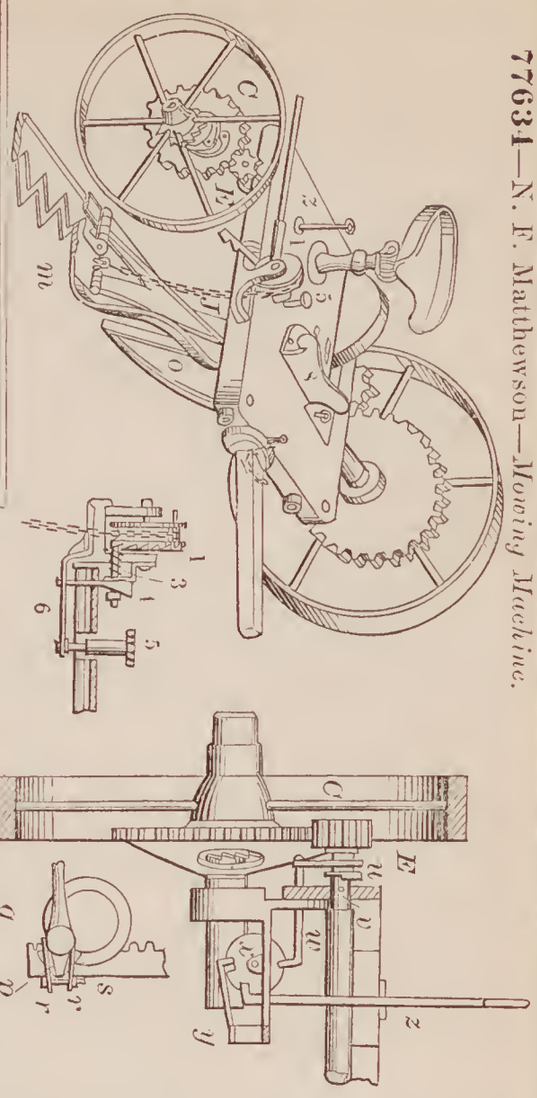


77628—L. D. Lothrop—*Fishing Tackle.*

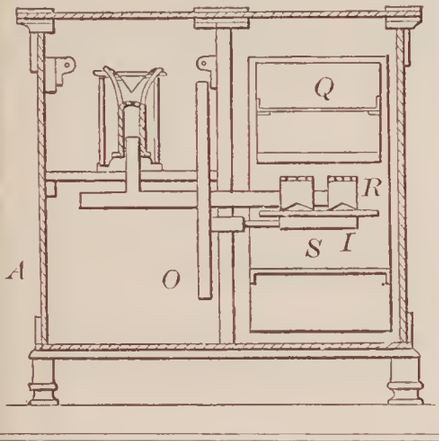
77632—D. S. Marvin—*Knife and Fork Scourer.*



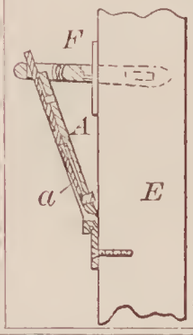
77634—N. F. Matthewson—*Mowing Machine.*



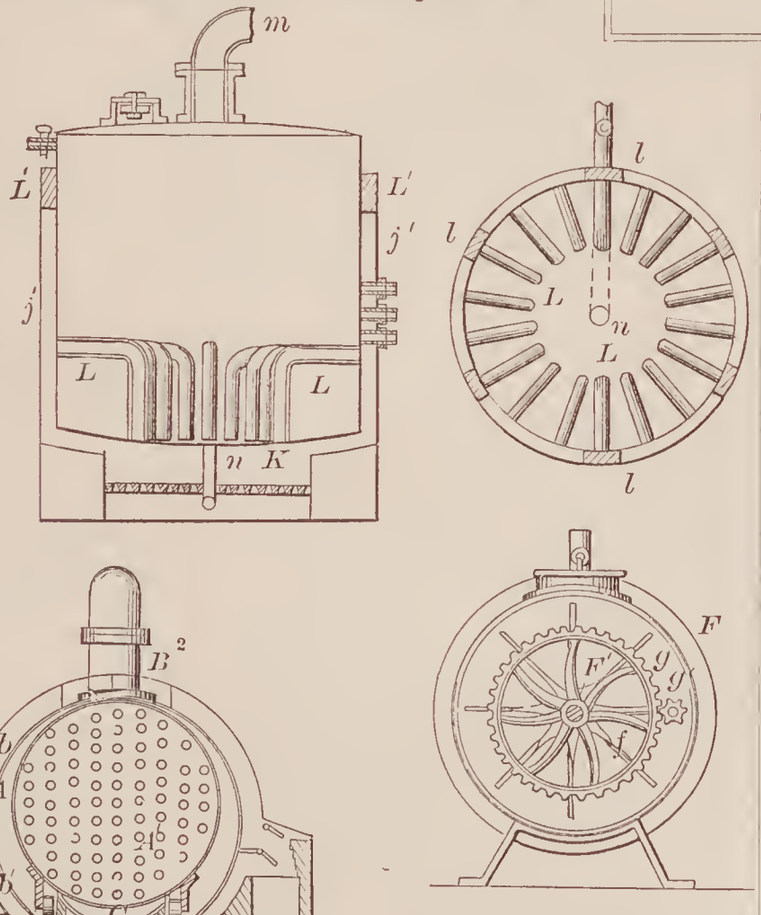
77635—S. T. McDougall—*Gas Heater.*



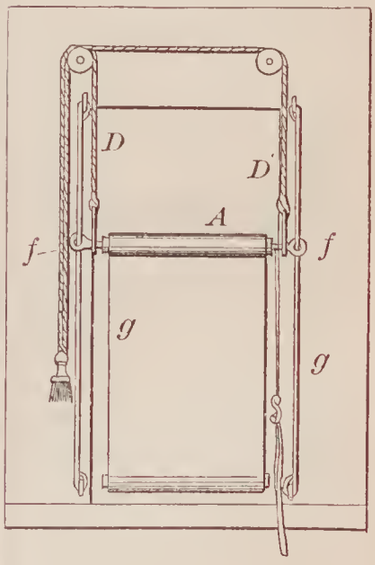
77633—W. K. Marvin—*Door Key Guard.*



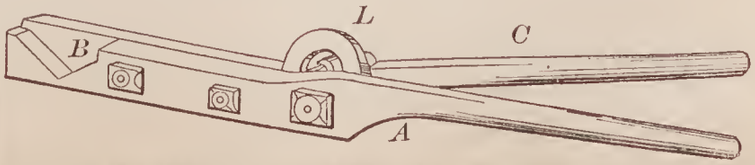
77636—D. F. Mellen—*For Distilling Pine Wood.*



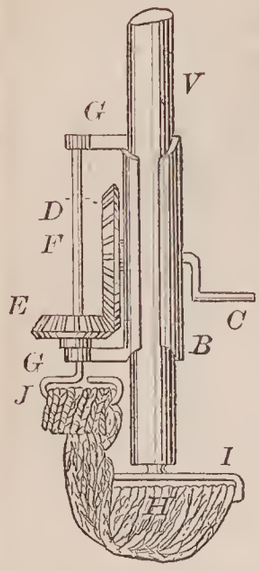
77638—G. L. Miller—*Window Curtain Fixture.*



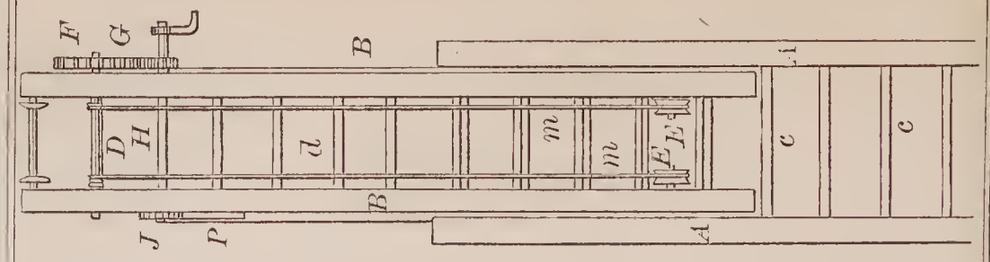
77637—F. Miller—*Bolt Cutter.*



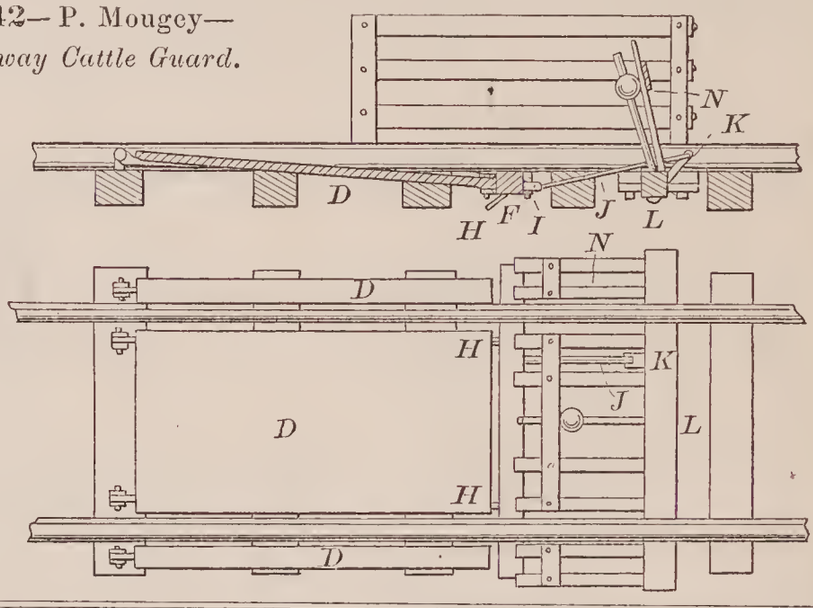
77639—W. R. Mills—*Mop Wringer.*



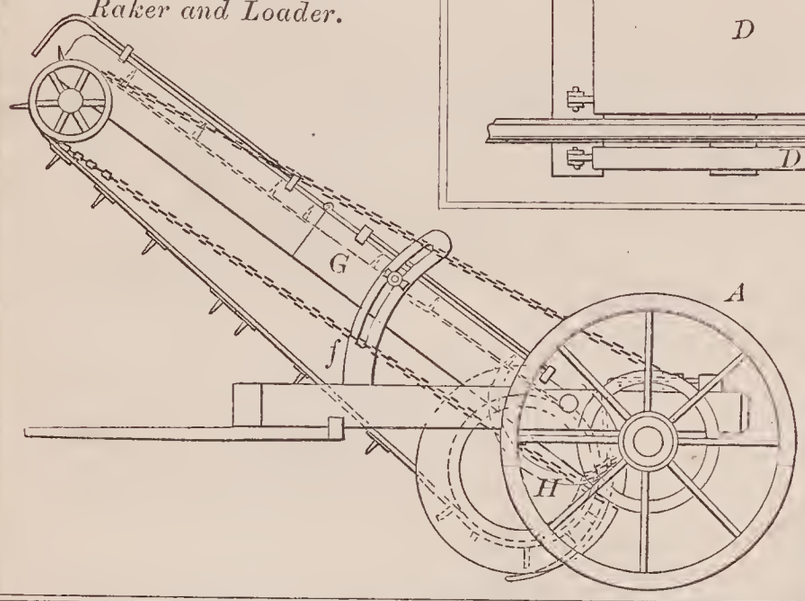
77640—J. F. Morse—*Extension Ladder.*



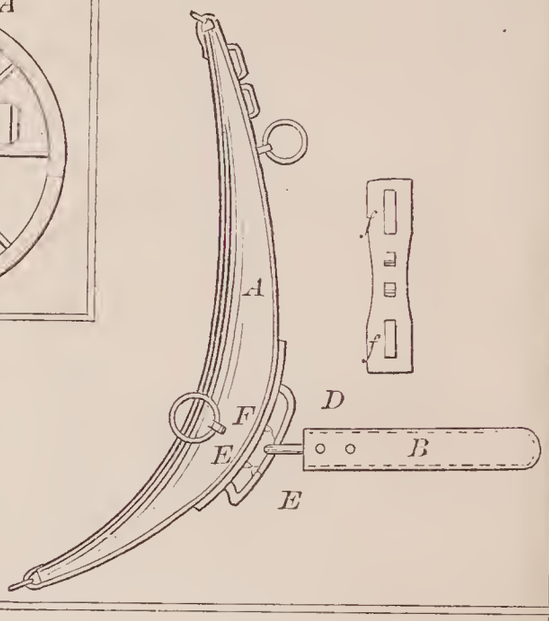
77642—P. Mougey—*Railway Cattle Guard.*



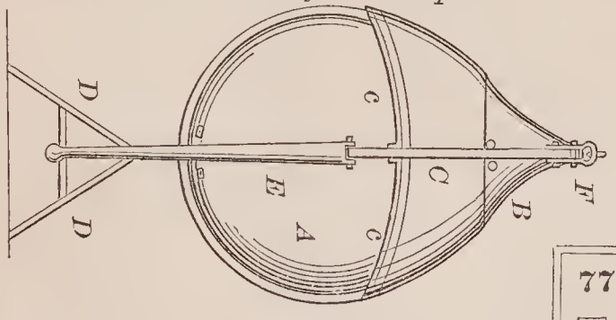
77641—S. K. Morse—*Hay Raker and Loader.*



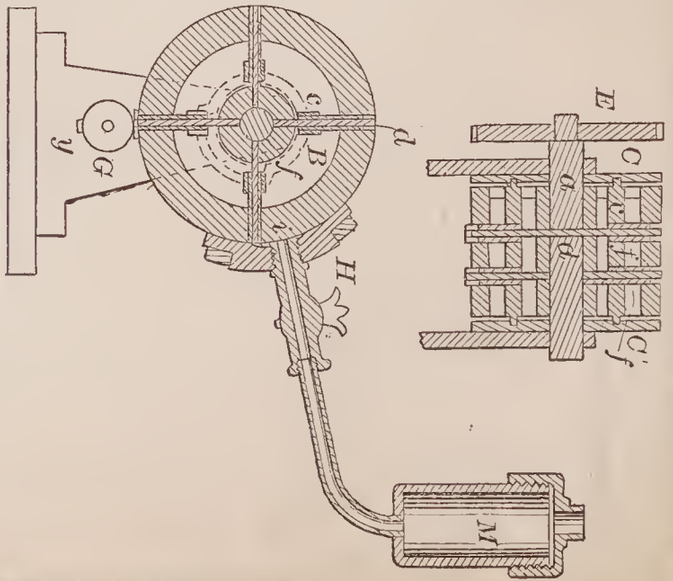
77645—D. M. Nixon—*Hames.*



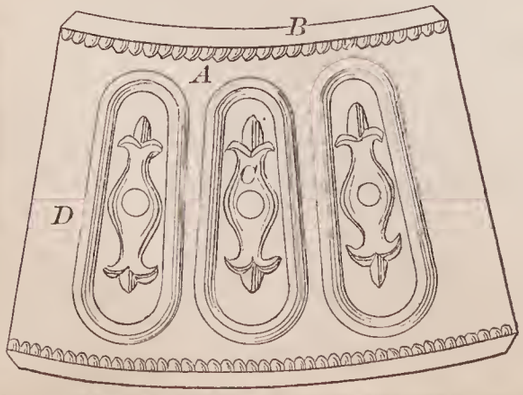
77644—Nelson & Dyer—*Scraper.*



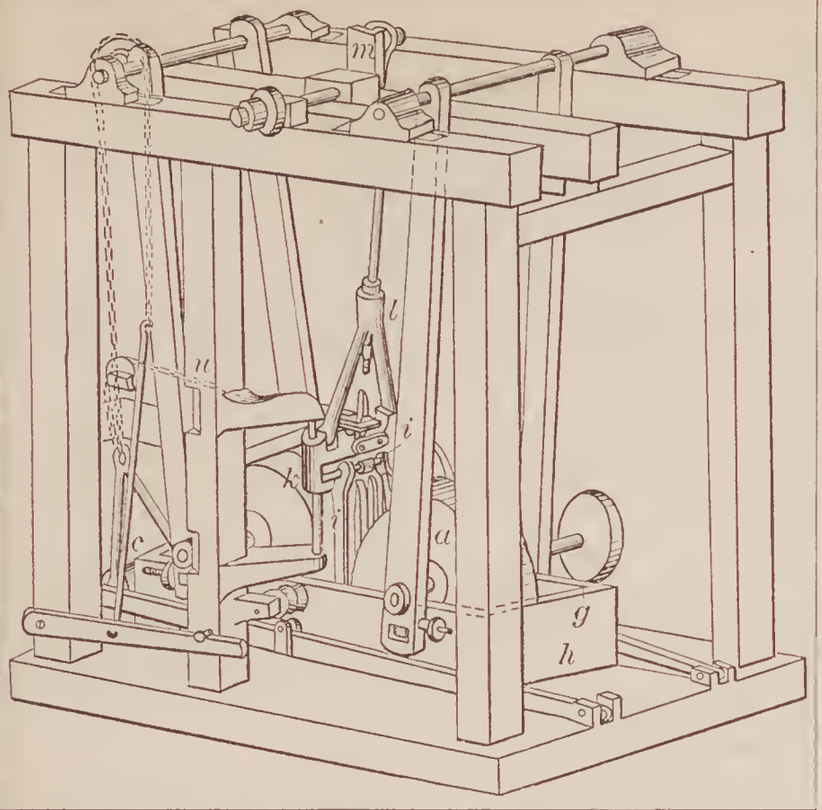
77647—J. M. Osgood—*For Casting Eyelets.*



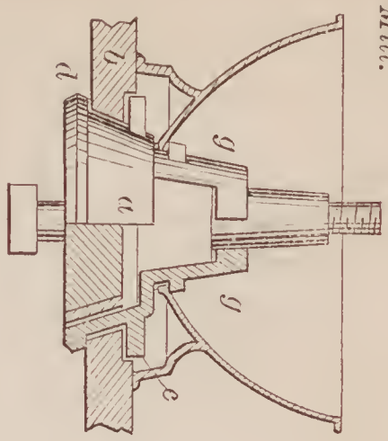
77643—W. A. Munn—*Blank for Sheet Metal Pot.*



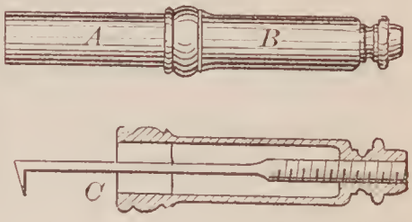
77646—E. Norton—*For Grinding File Blanks.*



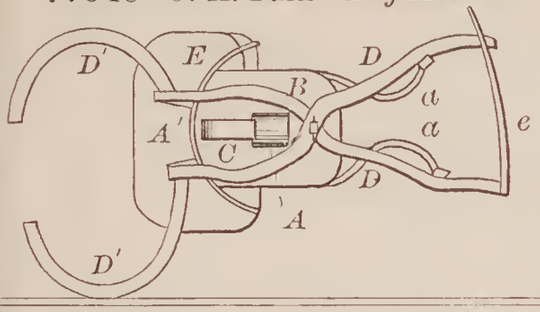
77649—C. & E. Parker—*Coffee Mill.*



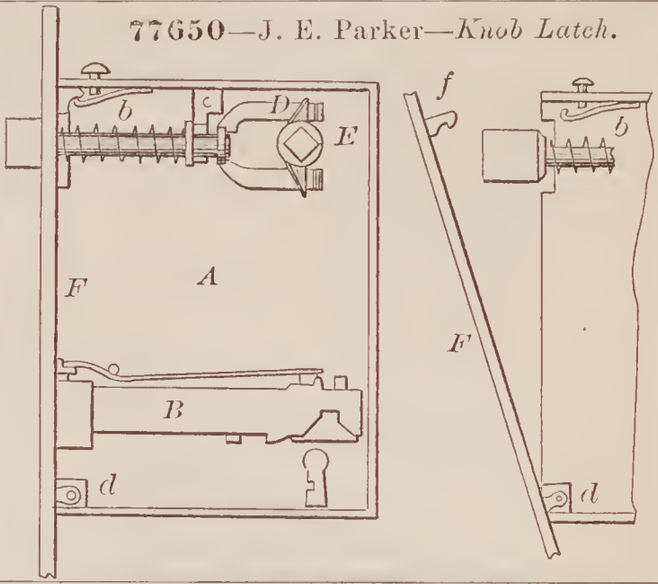
77651—Perkins & Gibbs—*Door Fastener.*



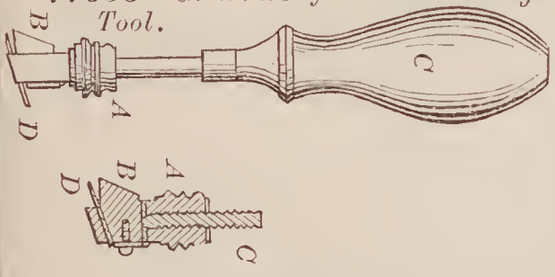
77648—J. H. Park—*Bag Holder.*



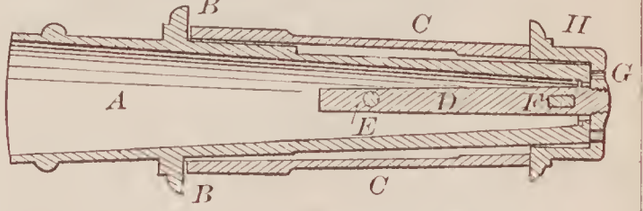
77650—J. E. Parker—*Knob Latch.*



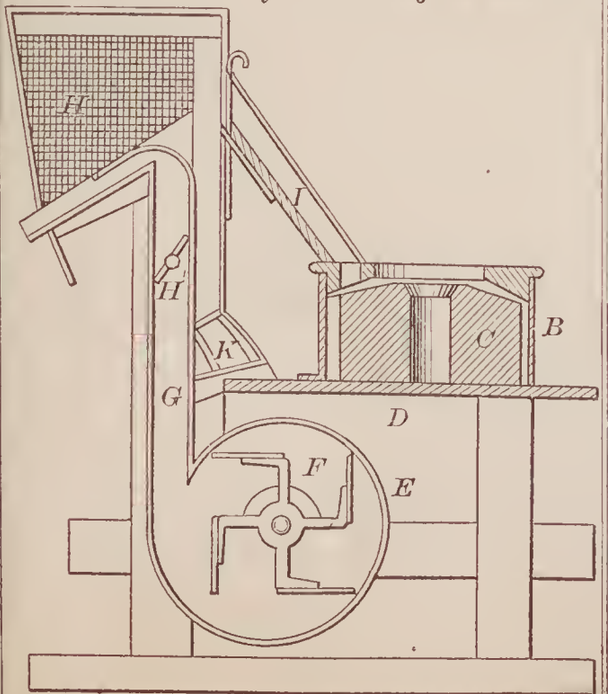
77653—G. W. Pruyne—*Channeling Tool.*



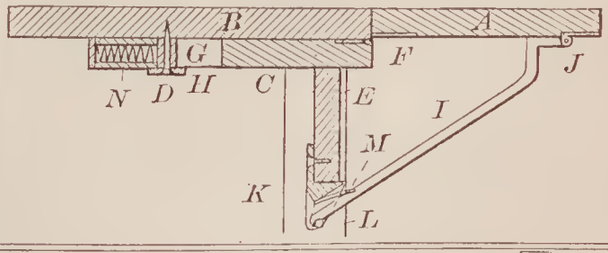
77656—C. F. Ravn—*Wagon Skein.*



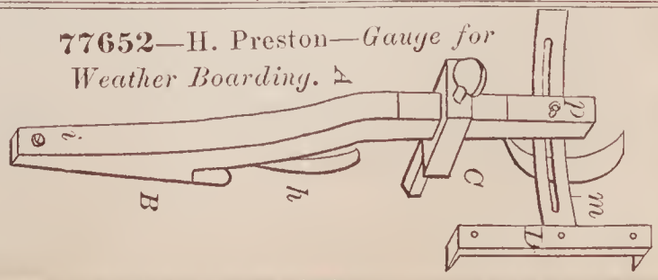
77654—J. Raney—*Elevating Grain, &c.*



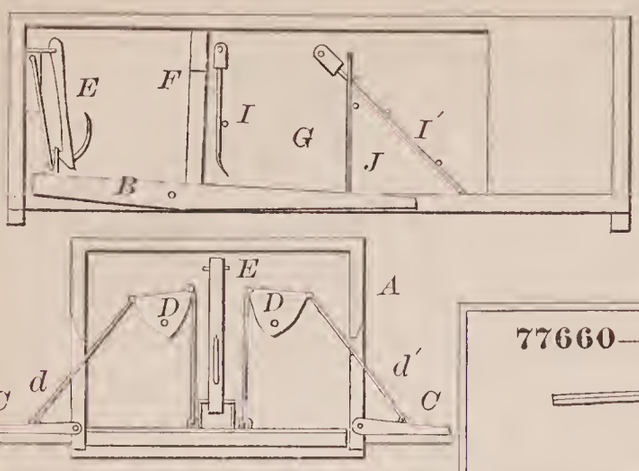
77655—J. S. Rankin—*Fall Leaf Table.*



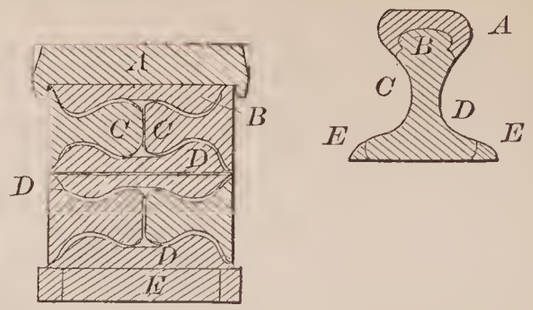
77652—H. Preston—*Gauge for Weather Boarding.*



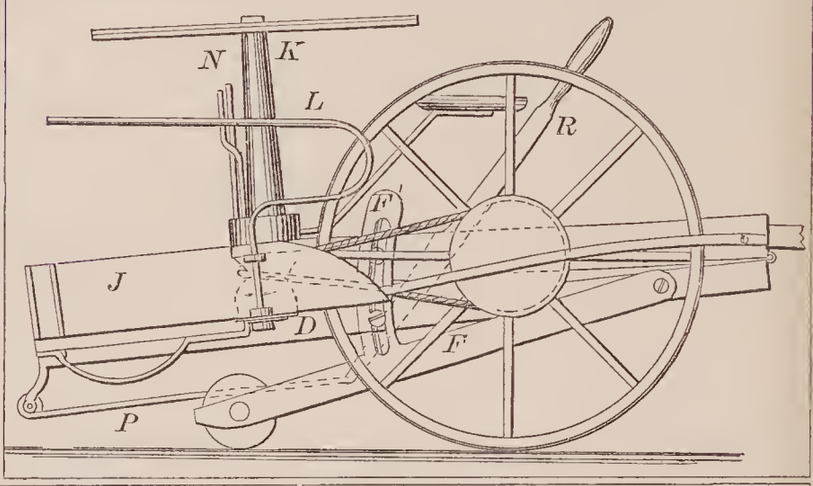
77657—J. H. Reisenger—*Animal Trap.*



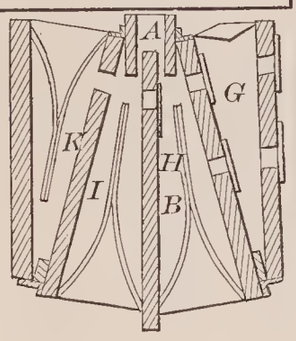
77659—H. Rowe—*Railroad Rail Fayot.*



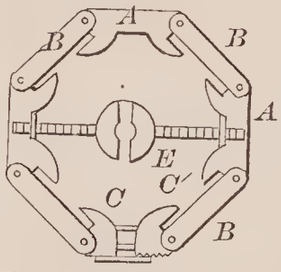
77660—Sarver & Coons—*Corn Harvester.*



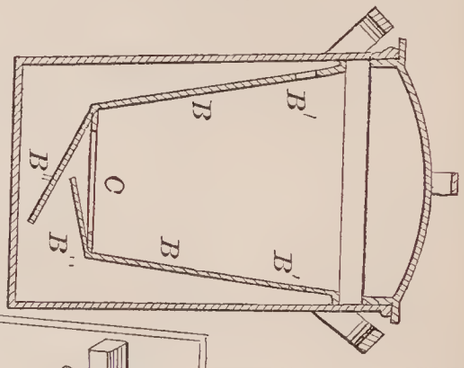
77661—J. Schatz—*Reed Organ Bellows.*



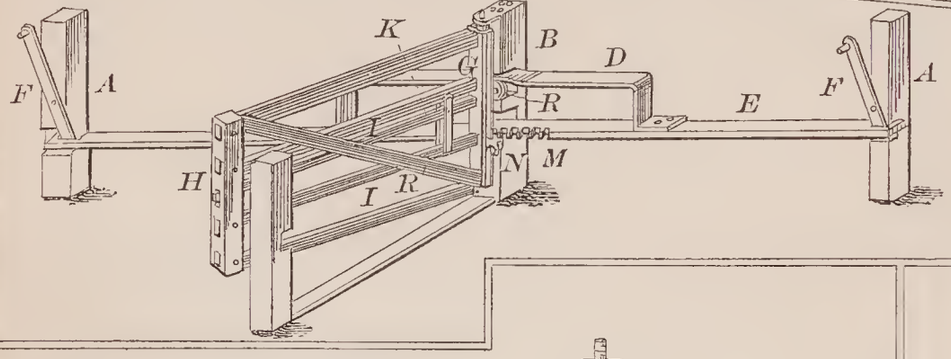
77662—S. Scotton—*Tree Box.*



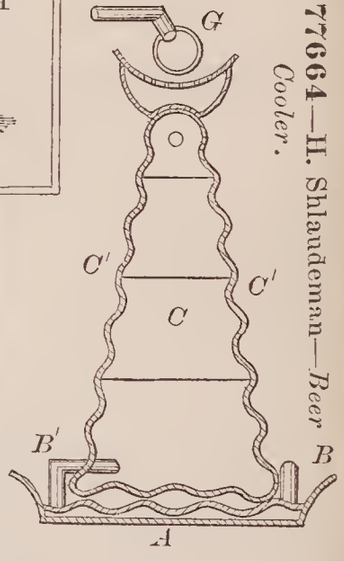
77663—I. D Seeley—*Wash Boiler.*



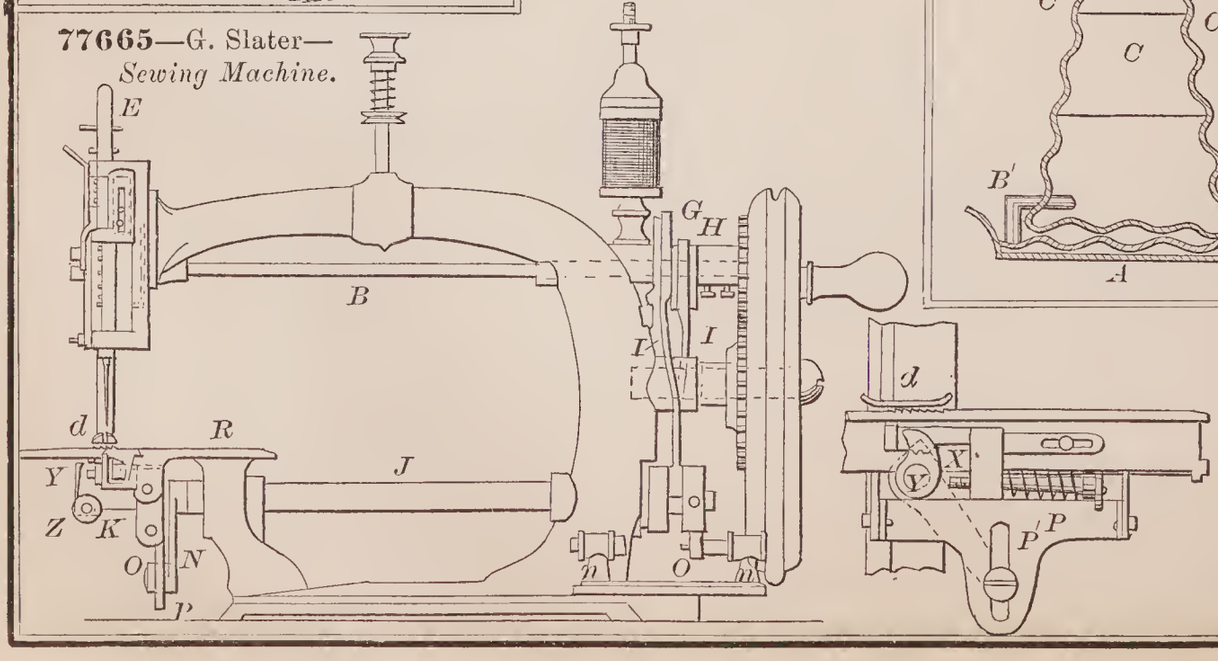
77658—C. Rich—*Farm Gate.*



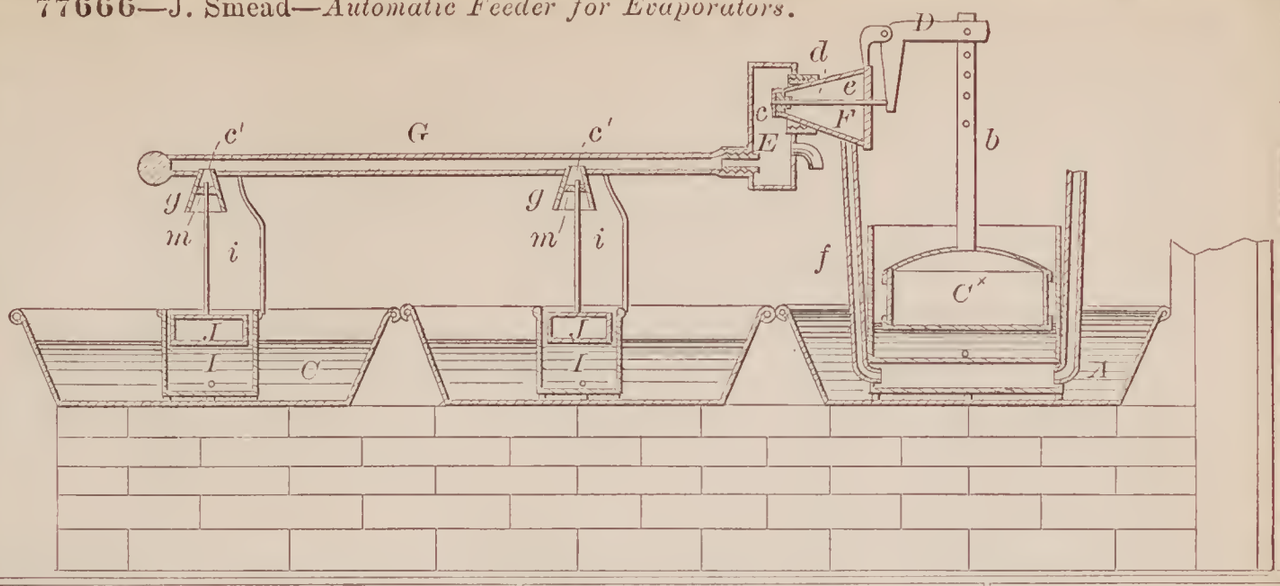
77664—H. Shlaudeman—*Beer Cooler.*



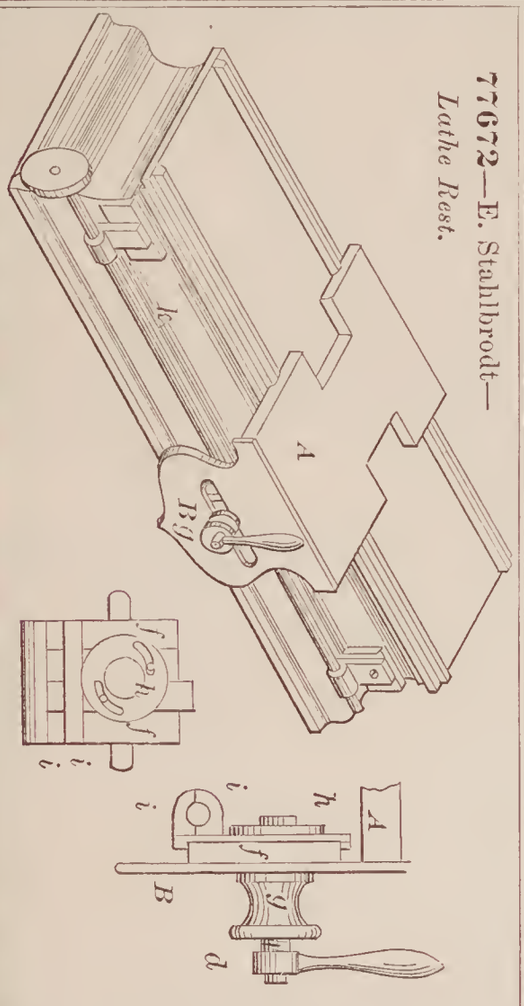
77665—G. Slater—*Sewing Machine.*



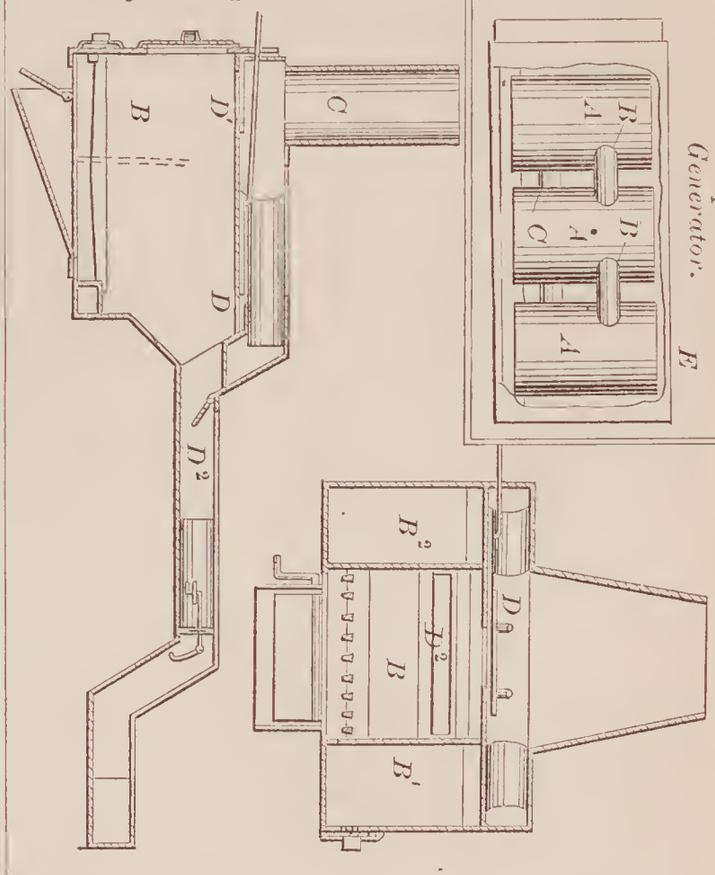
77666—J. Smead—*Automatic Feeder for Evaporators.*



77672—E. Stahlbrodt—*Lathe Rest.*

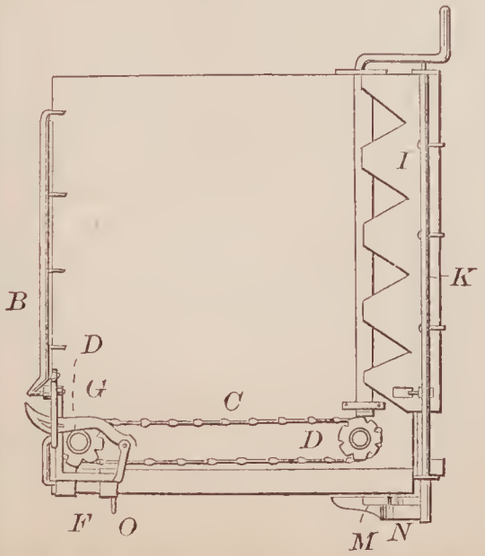


77668—W. C. Smith—*Sugar Evaporator.*

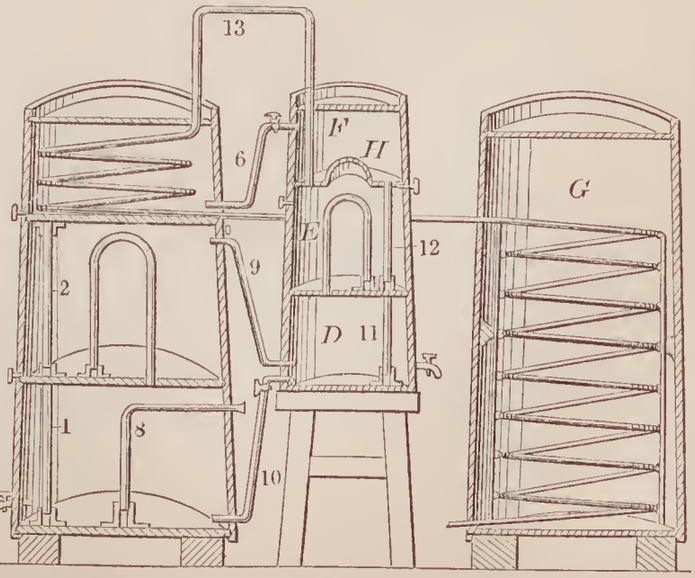


77670—O. Spencer—*Steam Generator.*

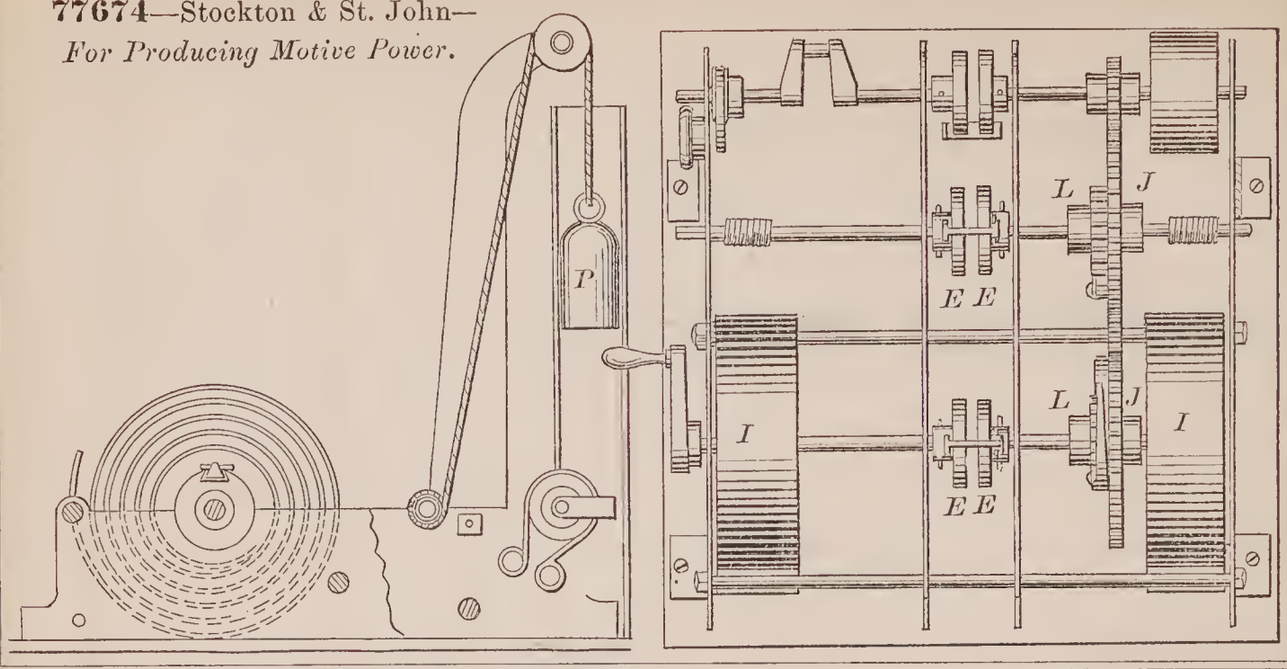
77675—O. O. Storle—*Harvester Rake.*



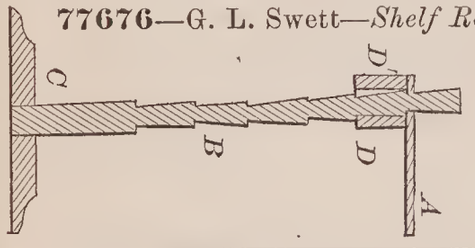
77671—J. Springer—*For Rectifying Spirits.*



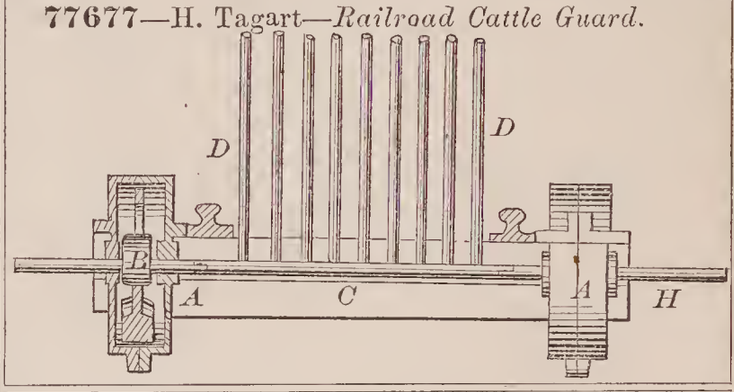
77674—Stockton & St. John—*For Producing Motive Power.*



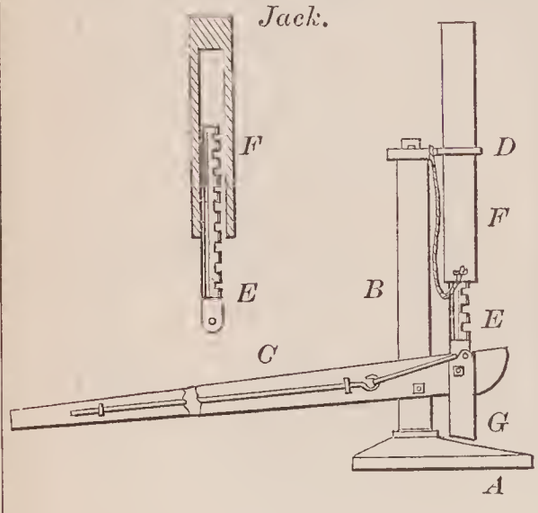
77676—G. L. Swett—*Shelf Rest.*



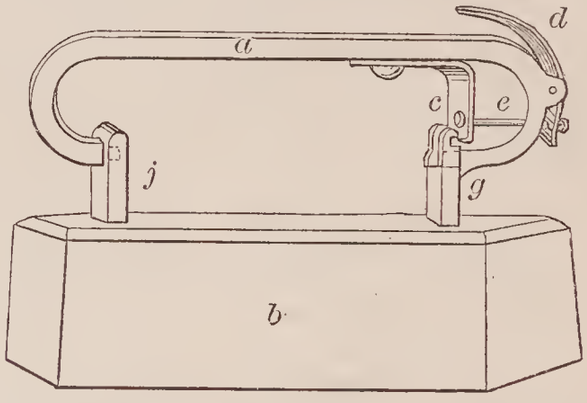
77677—H. Tagart—*Railroad Cattle Guard.*



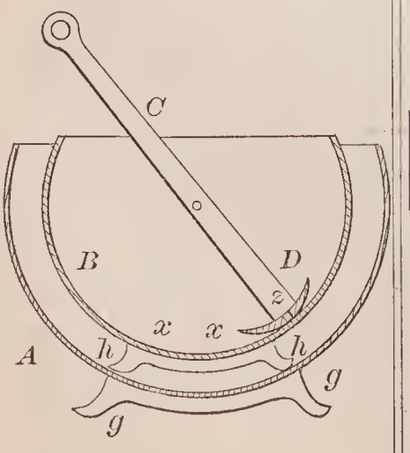
77678—R. M. Thompson—*Lifting Jack.*



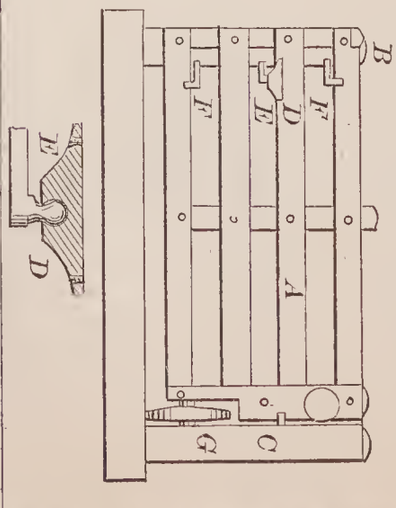
77681—R. W. Towle—*Smoothing Iron Handle.*



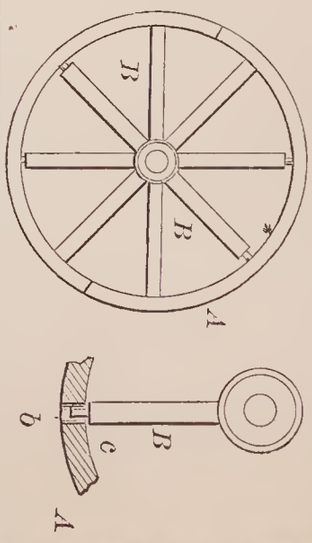
77679—S. H. Tift—*Potato Washer.*



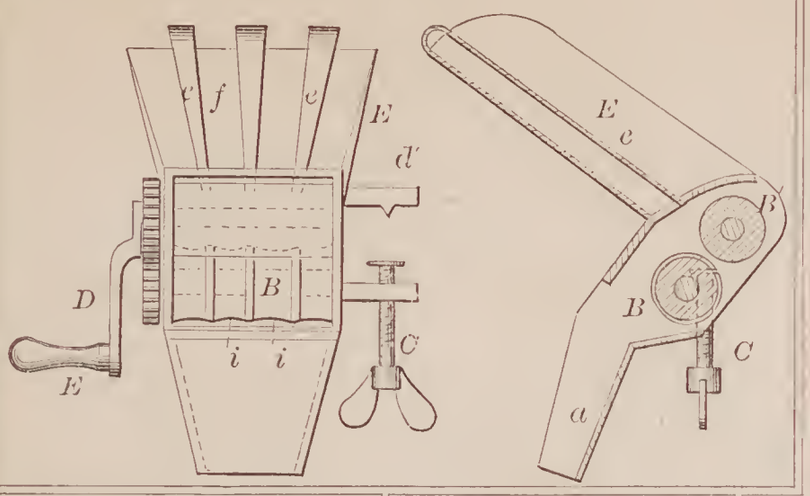
77682—G. W. Tucker—*Gate.*



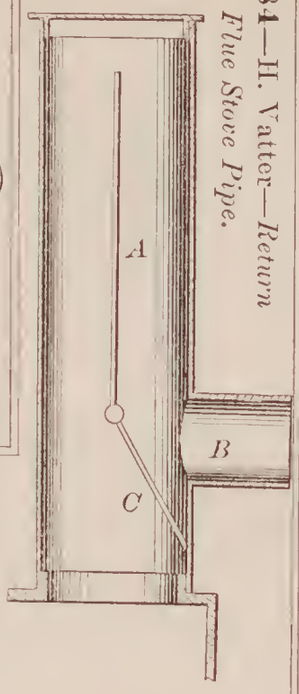
77680—S. Toomey—*Carriage Wheel.*



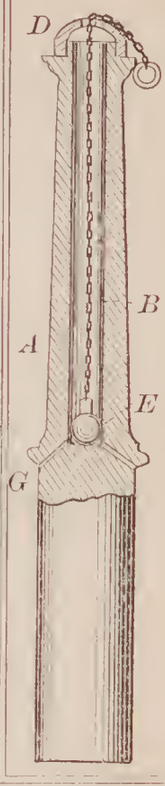
77683—S. Ustick—*Pea Sheller.*



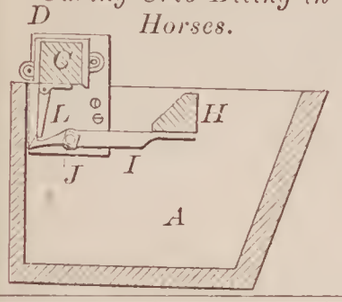
77684—H. Vatter—*Return Flue Stove Pipe.*



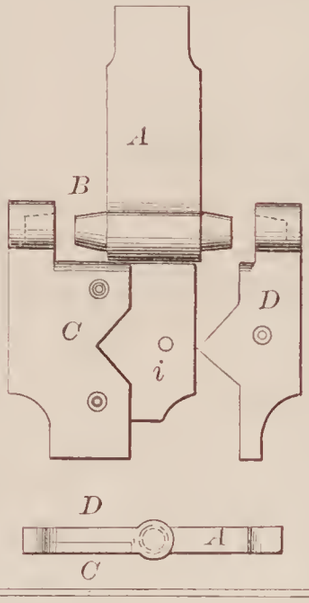
77686—B. & P. Walther—*Hitching Post.*



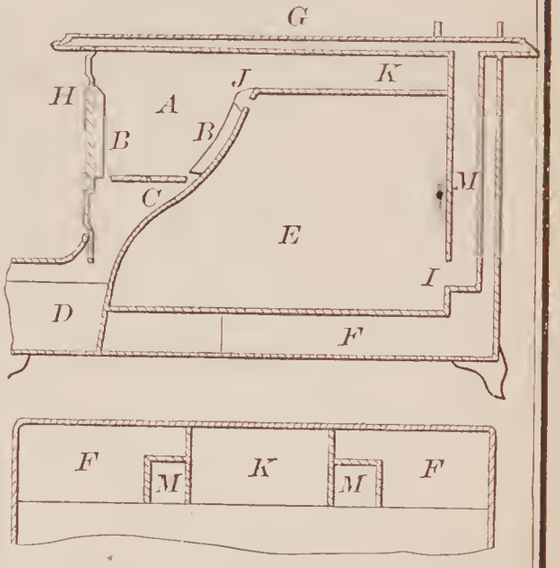
77689—G. H. White—*For Preventing and Curing Crib Biting in Horses.*



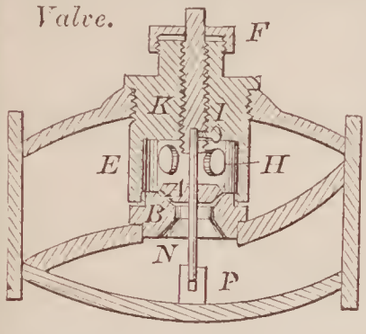
77687—W. Ward—*Shaft Attachment to Wagons.*



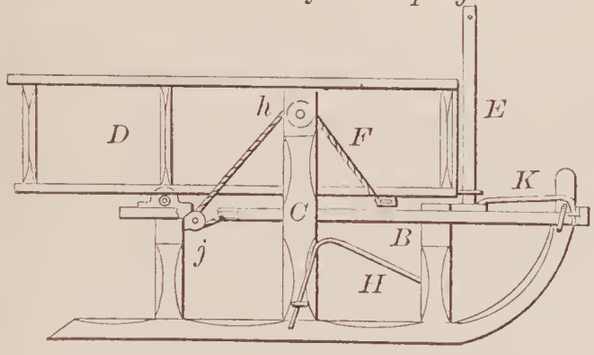
77688—E. D. Weston—*Stove.*



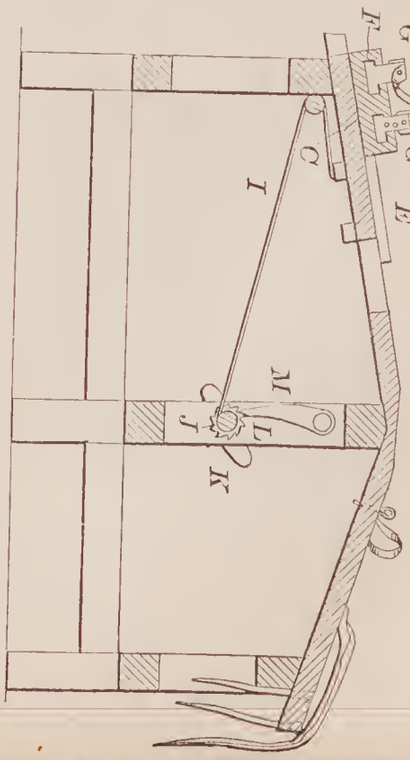
77690—P. White—*Check Valve.*



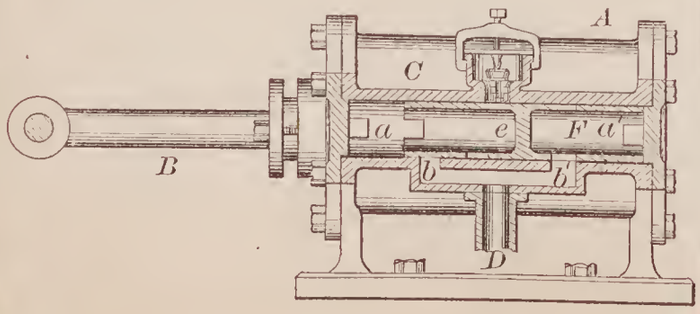
77692—E. R. Whitney—*Dumping Sled.*



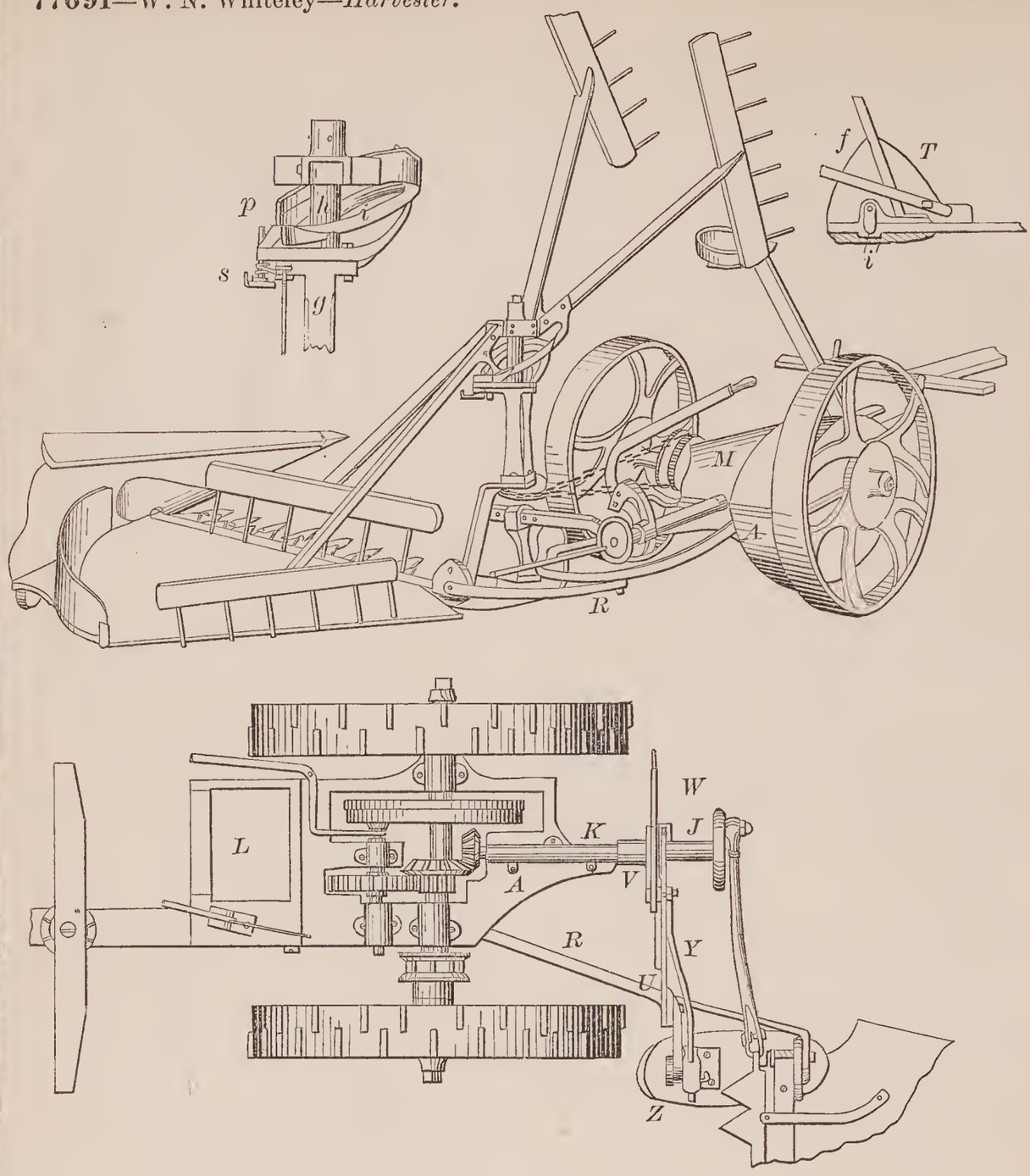
77693—G. Wiggins—*Sheep Shearing Table.*



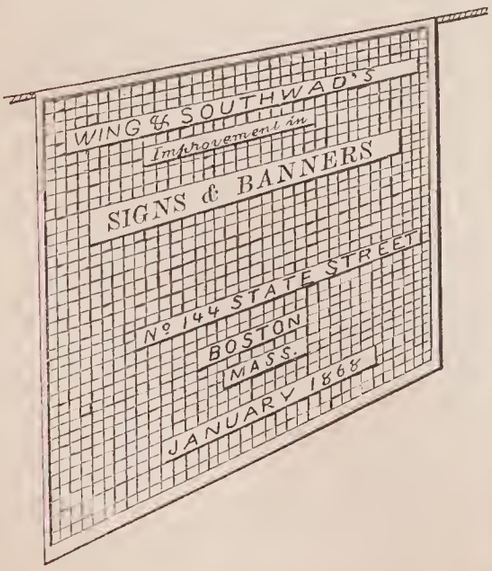
77694—J. Wilcke—*Pump.*



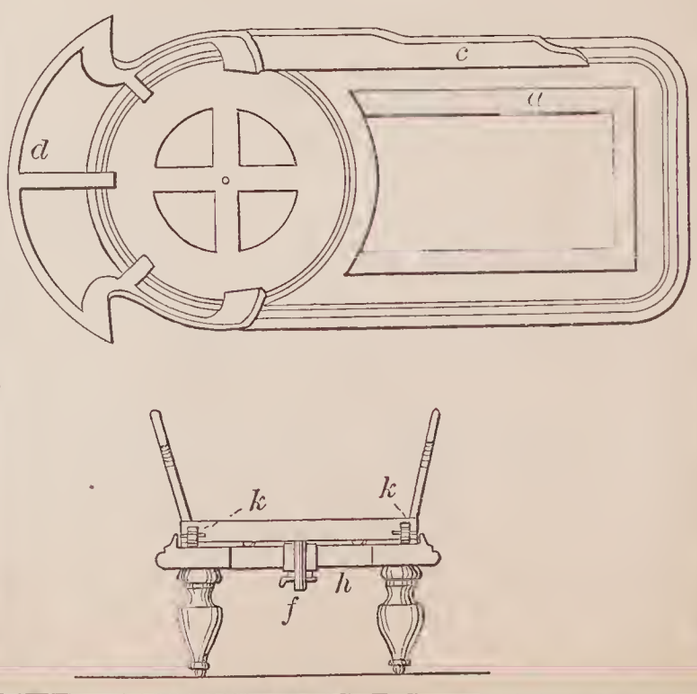
77691—W. N. Whiteley—*Harvester.*



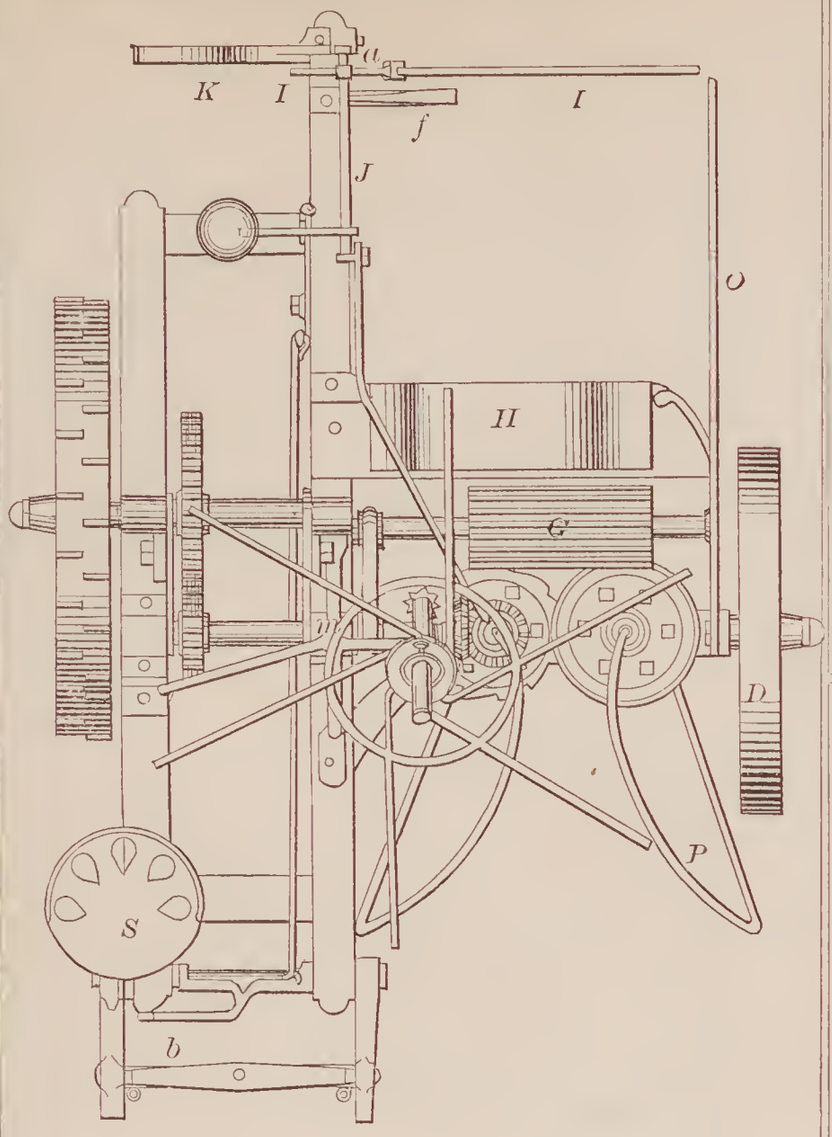
77695—S. Wing—*Hanging Signs.*

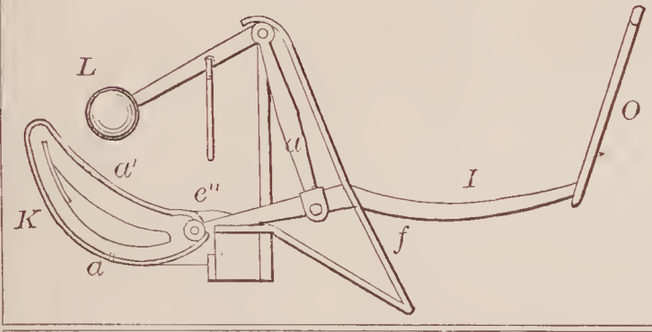


77697—T. Winter—*Chair and Lounge.*

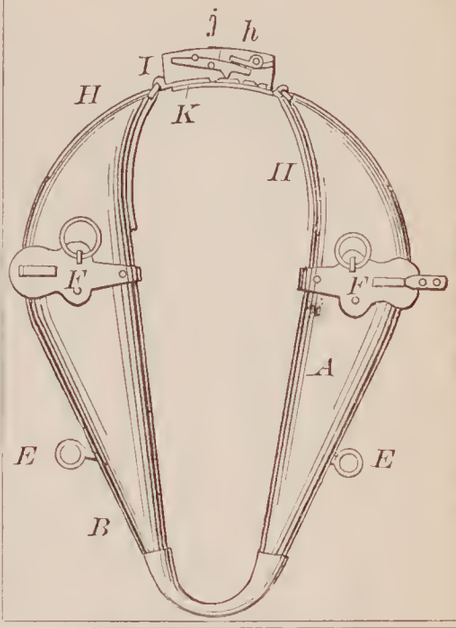


77696—J. F. Winchell—*Corn Harvester.*

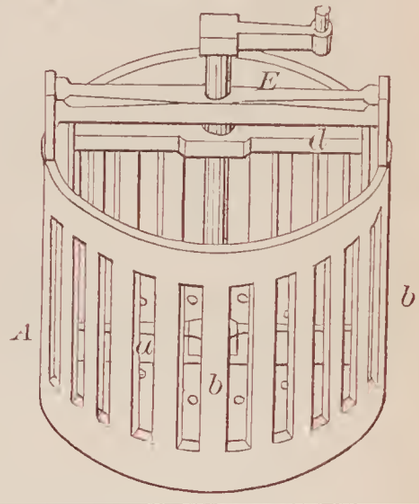




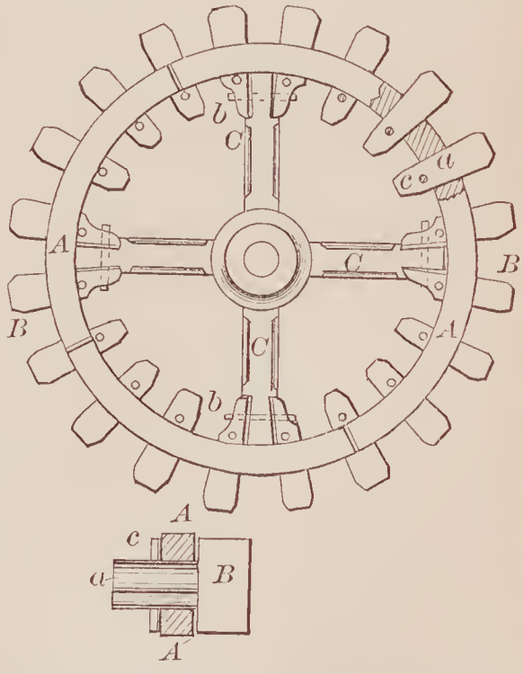
77698—C. Wolf—*Horse Collar.*



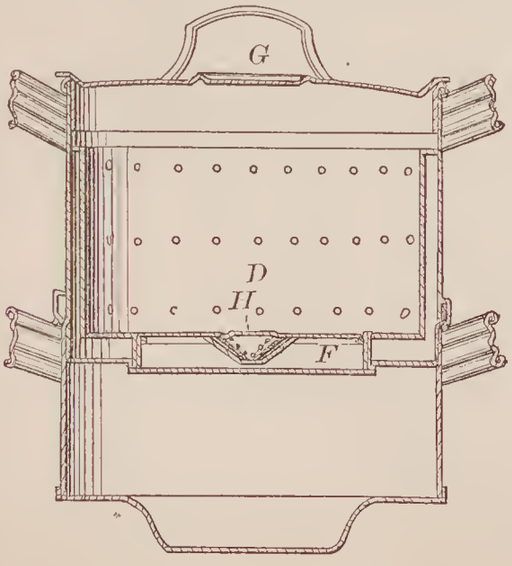
77699—U. A. Woodbury—*Vegetable Washer.*



77700—C. F. Woodruff—*Spur Wheel.*

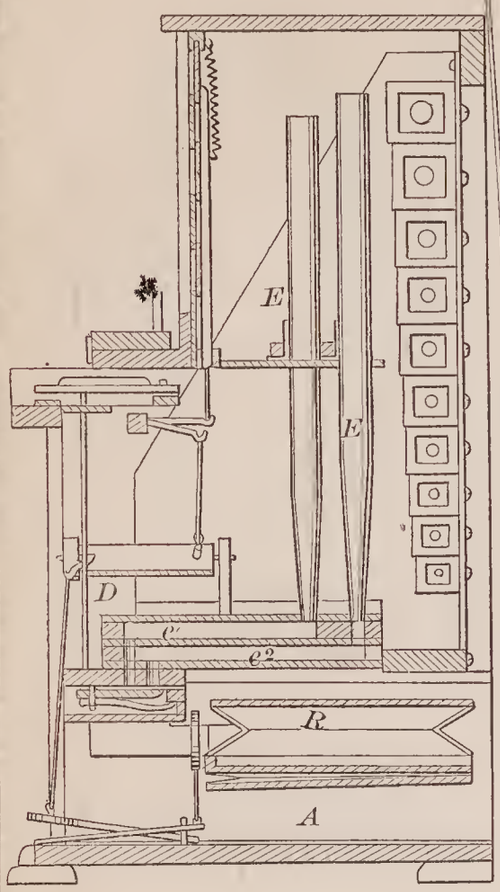


77702—H. A. Zopff—*Culinary Apparatus.*

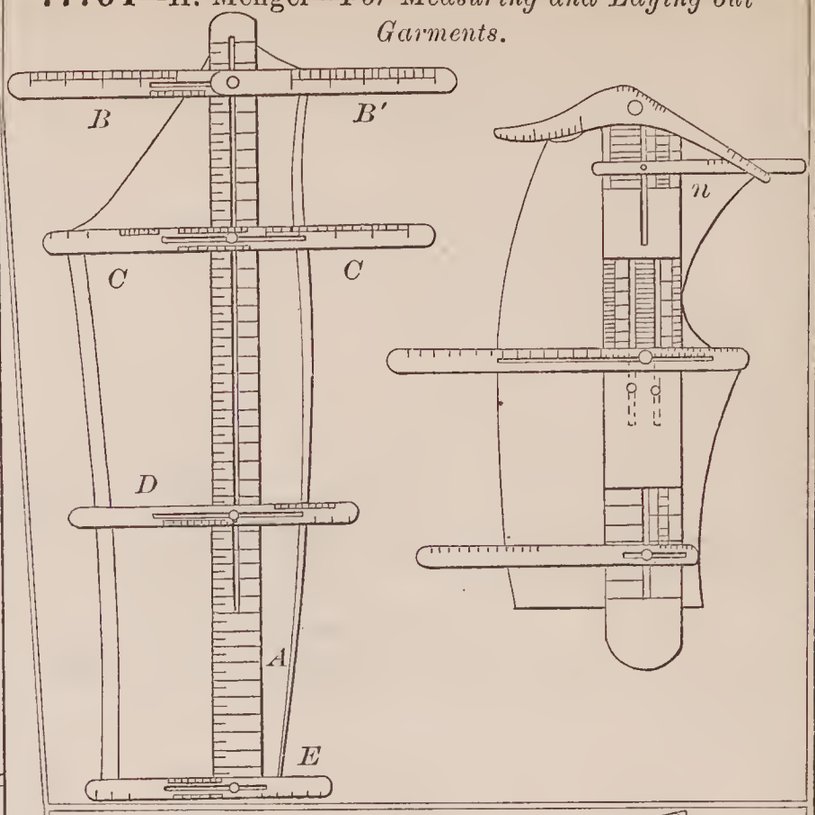


77701—W. Youngblood—*Horse Collar.*

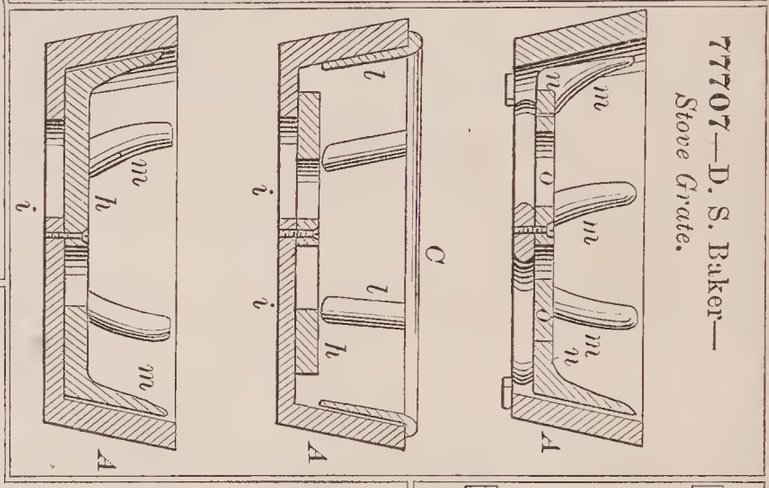
77703—Felgemaker & Derrick—*Portable Pipe Organ.*



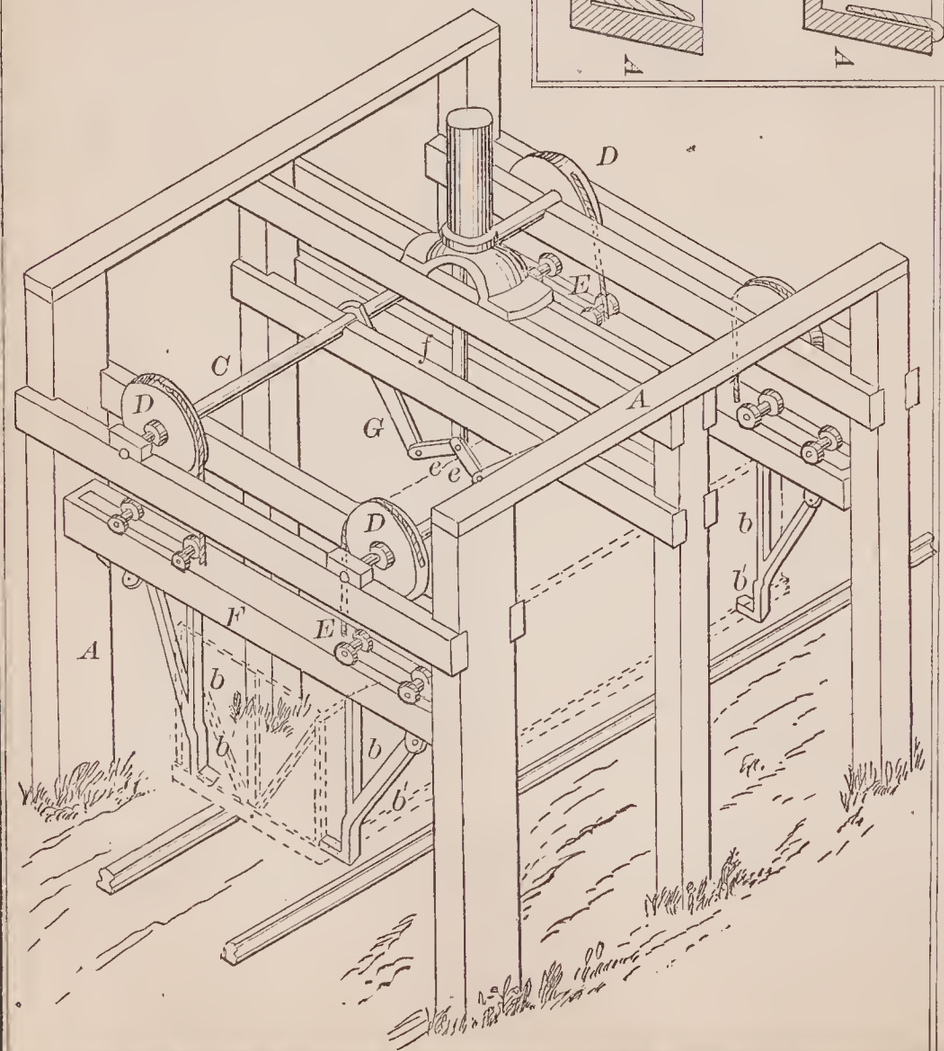
77704—H. Mengel—*For Measuring and Laying out Garments.*

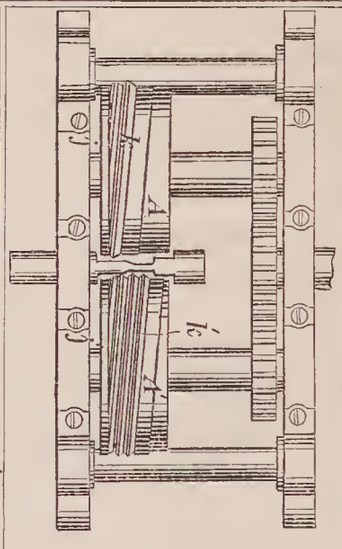


77707—D. S. Baker—*Stove Grate.*

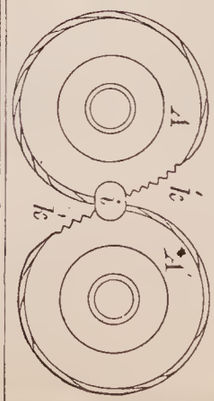


77706—H. Arden—*Car Elevator.*

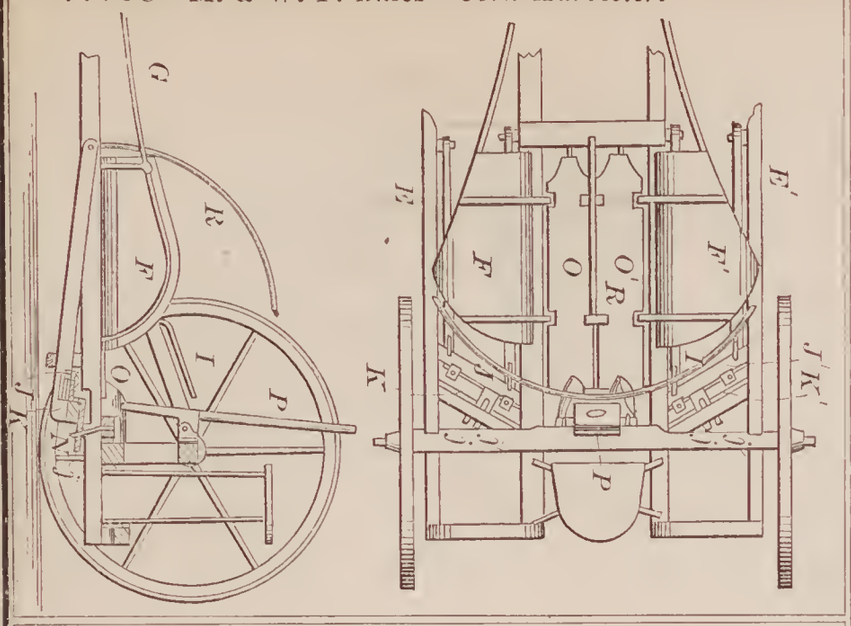




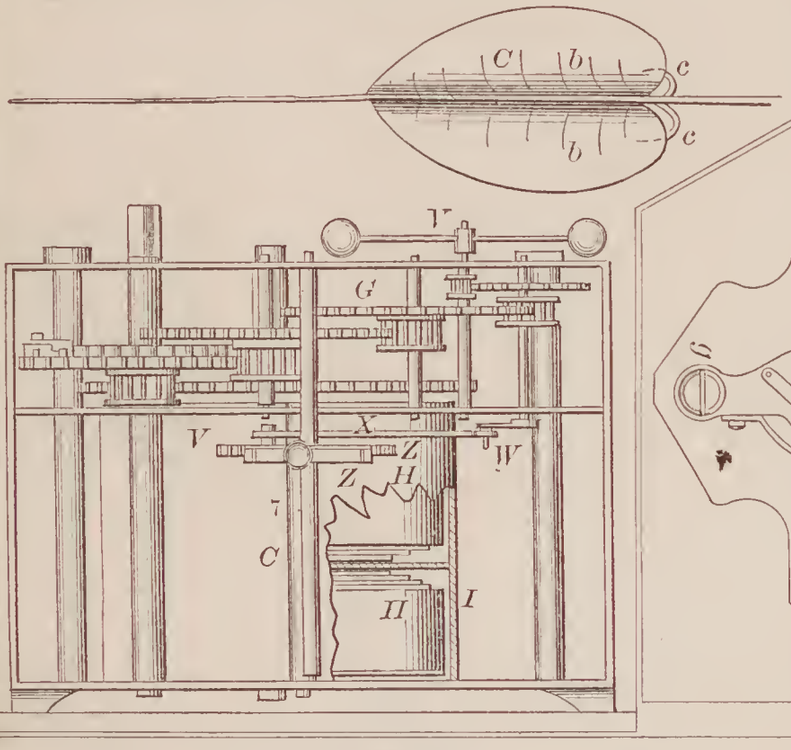
77710—B. D. Beecher—*For Threading Bolts.*



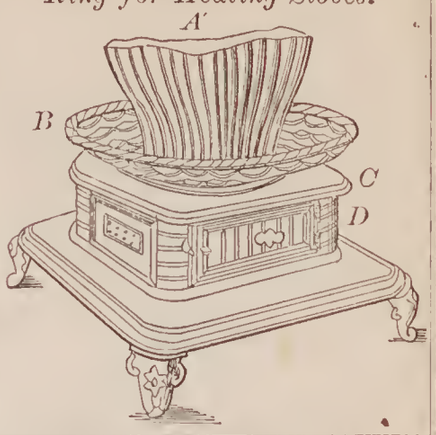
77708—M. & W. P. Bales—*Corn Harvester.*



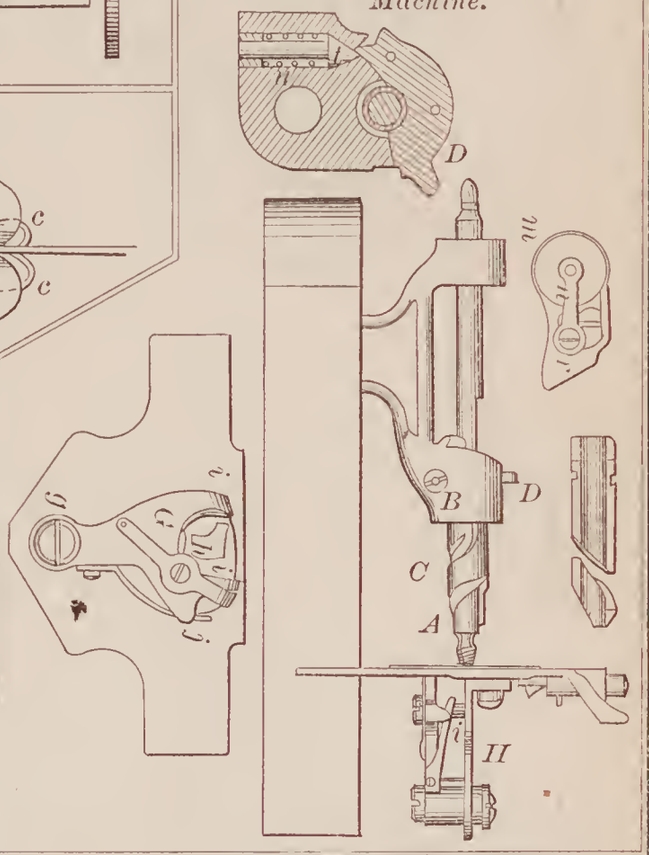
77709—J. Beck—*Automatic Fan.*



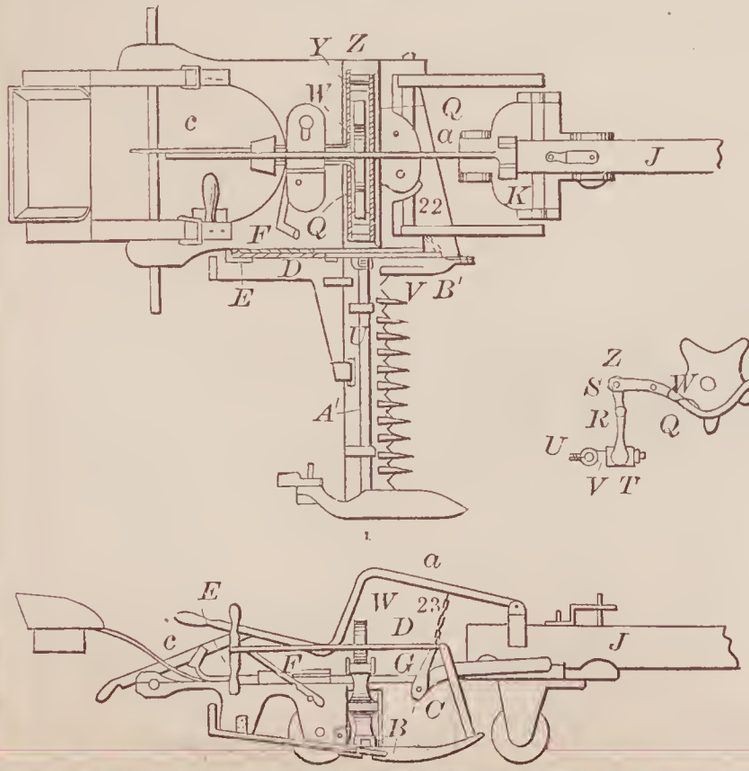
77711—N. A. Baynton—*Fender Ring for Heating Stoves.*



77715—C. Chabot—*Sewing Machine.*

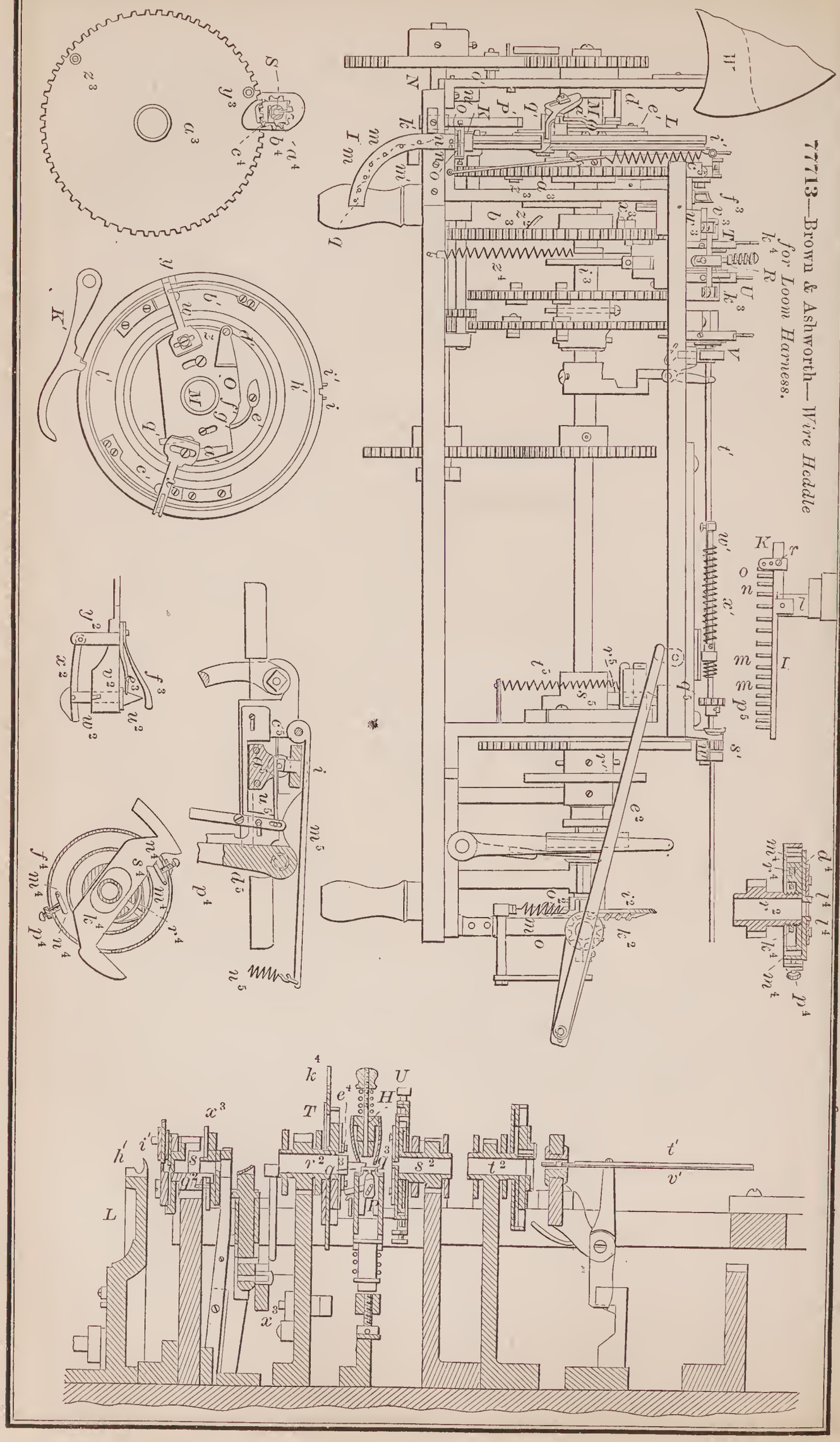


77714—G. Cadwell—*Harvester.*



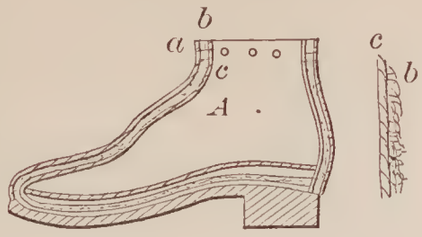
77712—J. Brakeley—*Dryer.*

7713—Brown & Ashworth— *Wire Heddle for Loom Harness.*

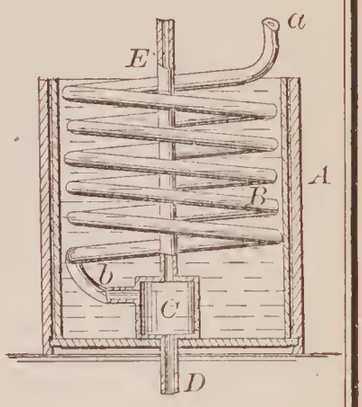


77716—H. Chamberlain—*Store Window.*

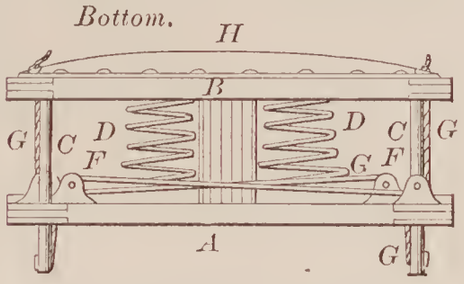
77717—E. Chesterman—*Boots and Shoes.*



77718—P. Coats—*Condenser.*



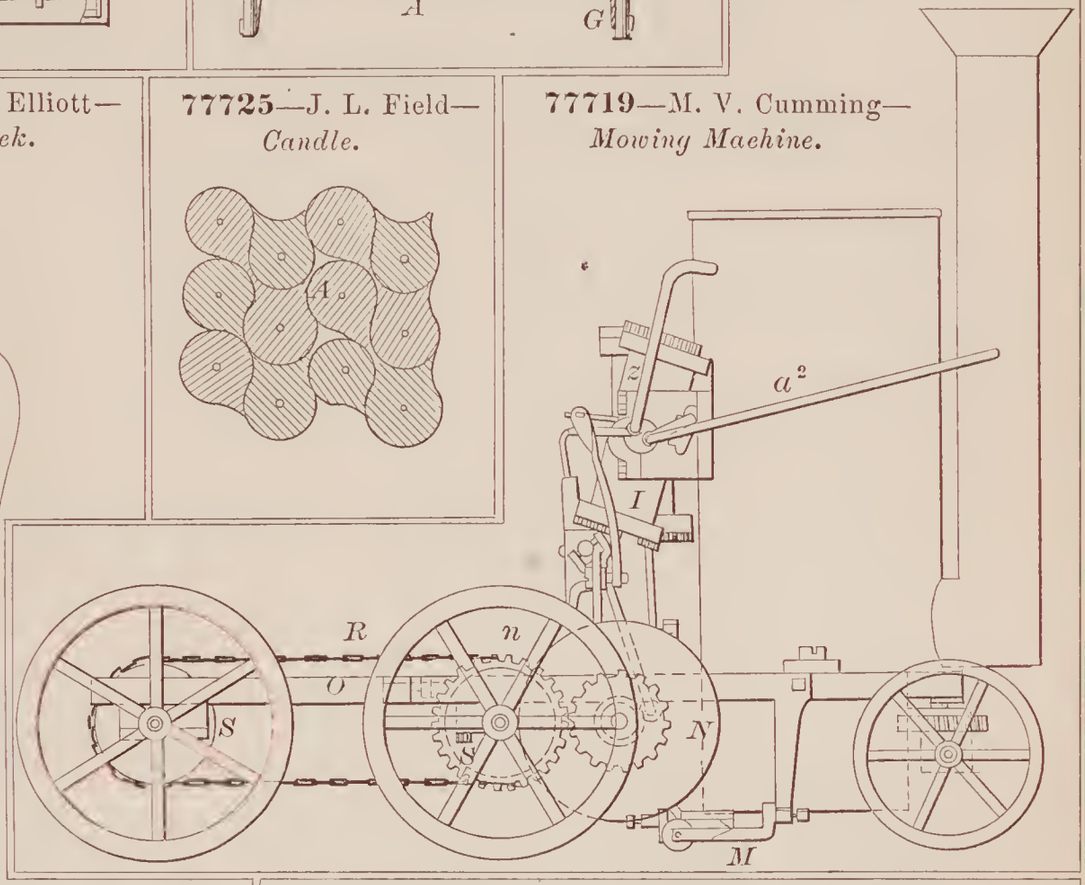
77720—J. D F. Dahl—*Bed Bottom.*



77723—J. S. Elliott—*Hasp Lock.*

77725—J. L. Field—*Candle.*

77719—M. V. Cumming—*Mowing Machine.*



77724—A. Eschenlohr—*Seamless Leather Strap.*

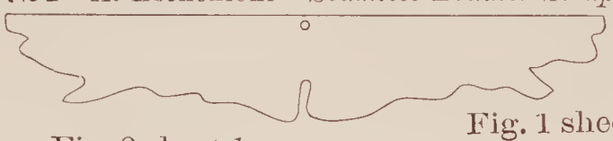


Fig. 1 sheet 1

Fig. 2 sheet 1

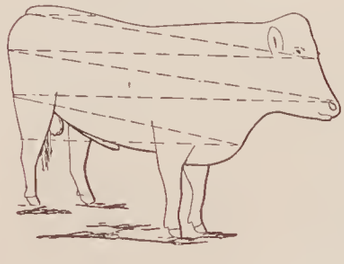


Fig. 1 sheet 2

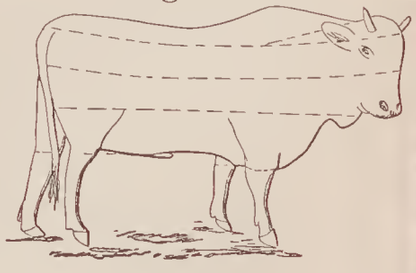
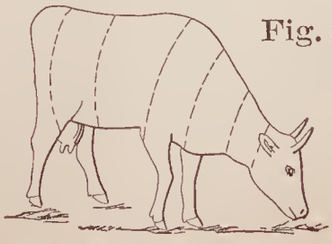
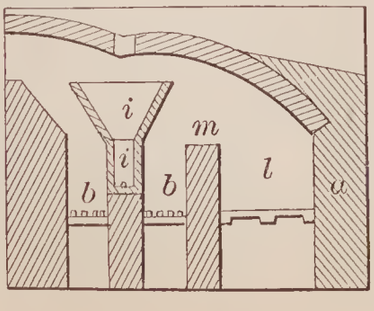


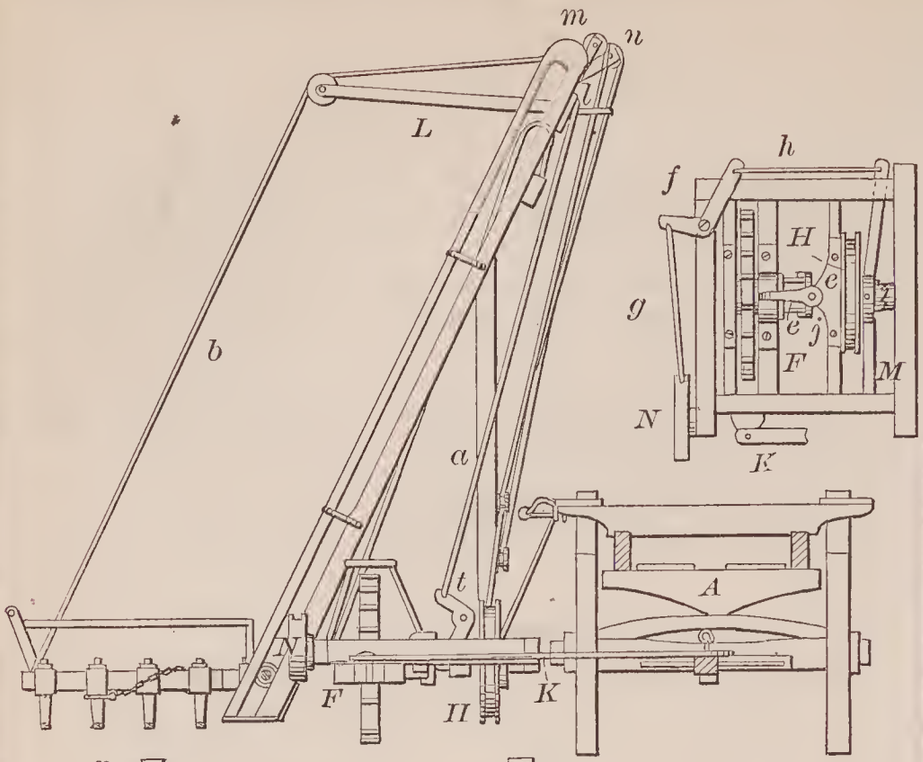
Fig. 3 sheet 2

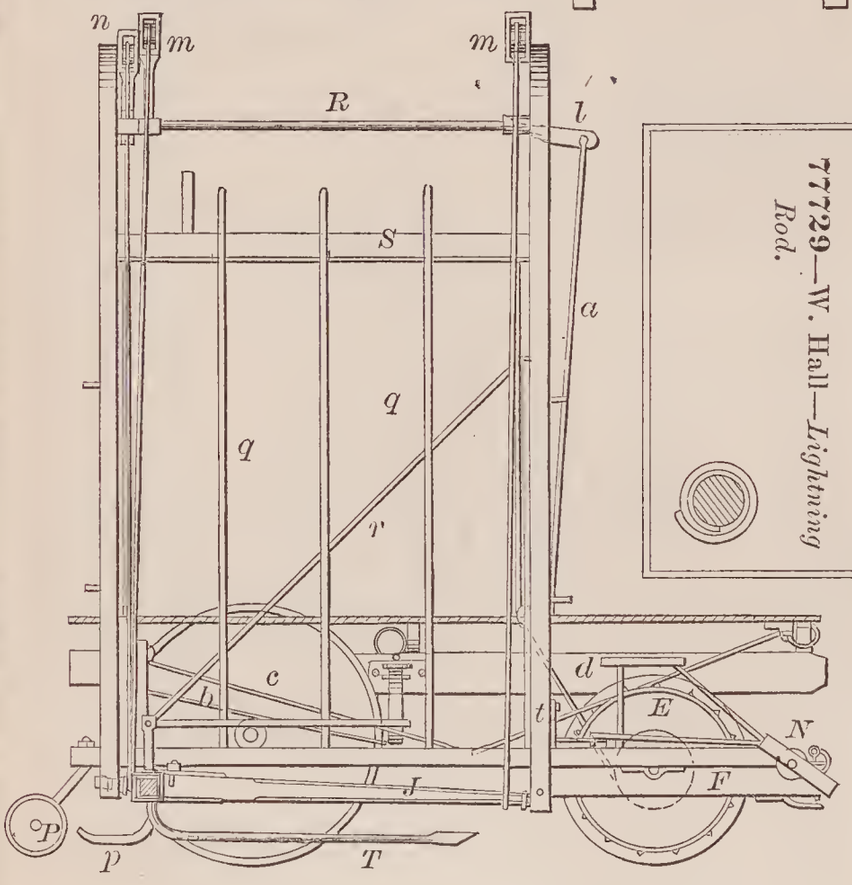


77722—F. Ellershausen—*Manufacture of Iron and Steel.*



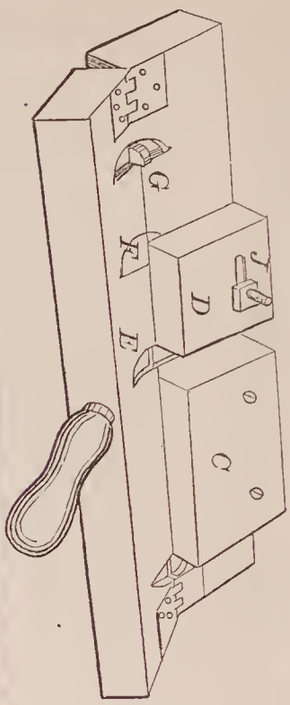
77721—M. A. Dilley—*Hay Raker and Loader.*

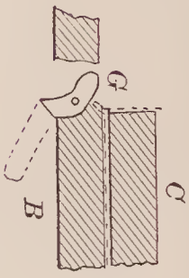




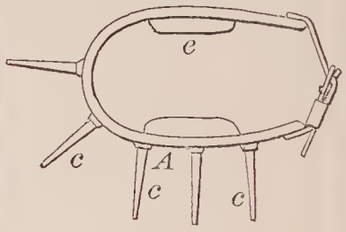
77729—W. Hall—*Lightning Rod.*

77726—J. Finn—*Pan Former.*

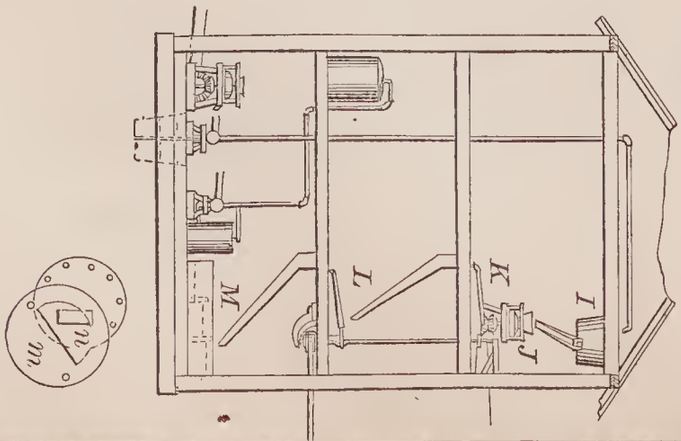


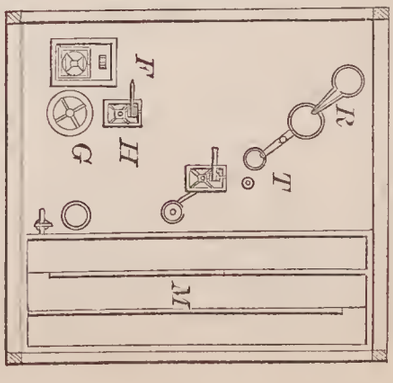


77728—H. A. Hall—*Ankle or Knee Guard.*

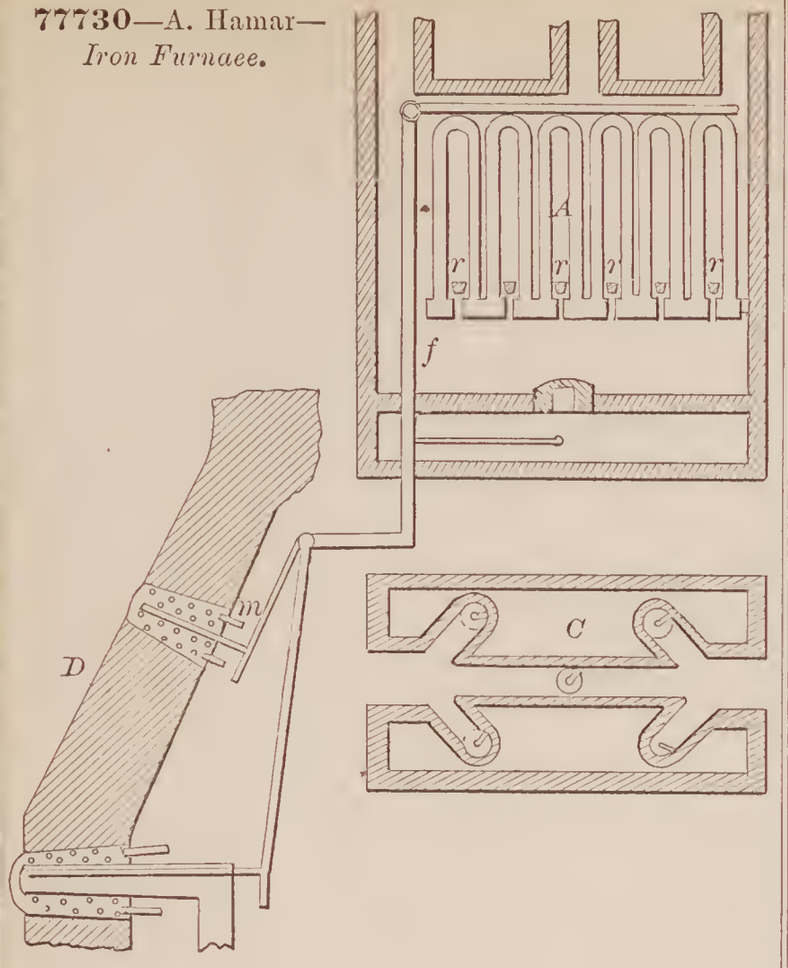


77727—J. Firmenich—*Manufacture of Vinegar.*

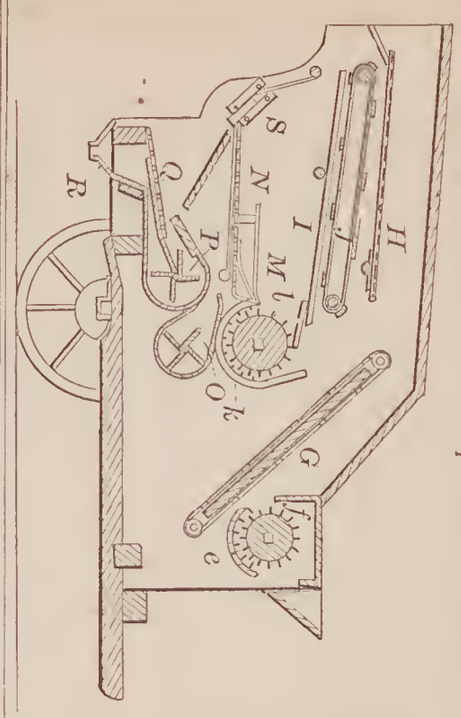




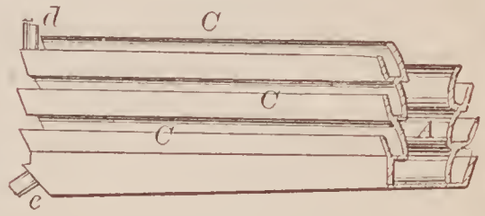
77730—A. Hamar—*Iron Furnaee.*



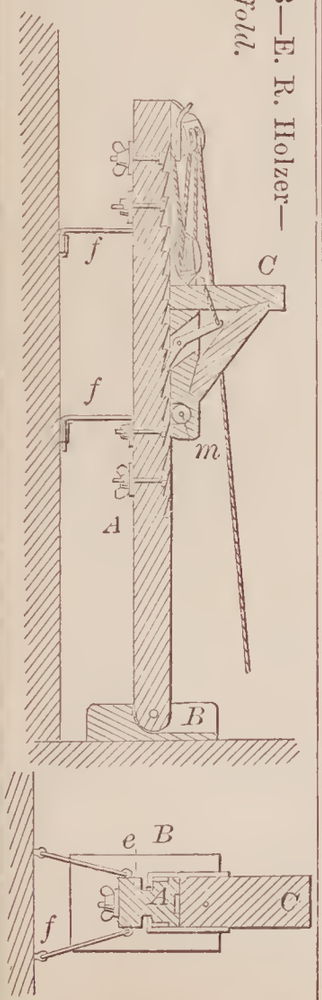
77731—D. M. Heikes—*Clover Separator and Huller.*



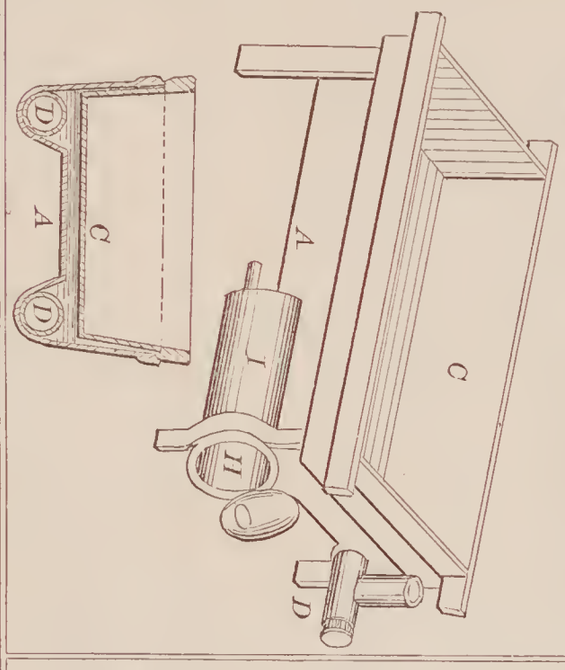
77732—N. Heimenz—*Beer Cooler.*



77733—E. R. Holzer—*Scaffold.*



77734—W. Howard—*Cheese Vat.*



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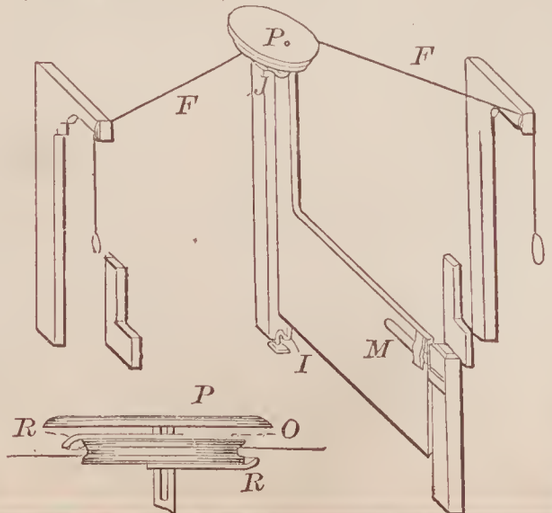
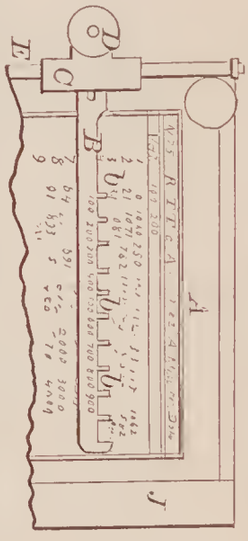
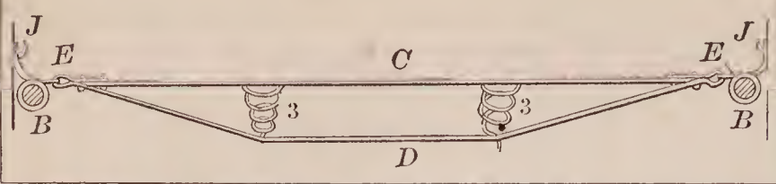


77736—I. S. Hyatt—*Tax Calculator.*

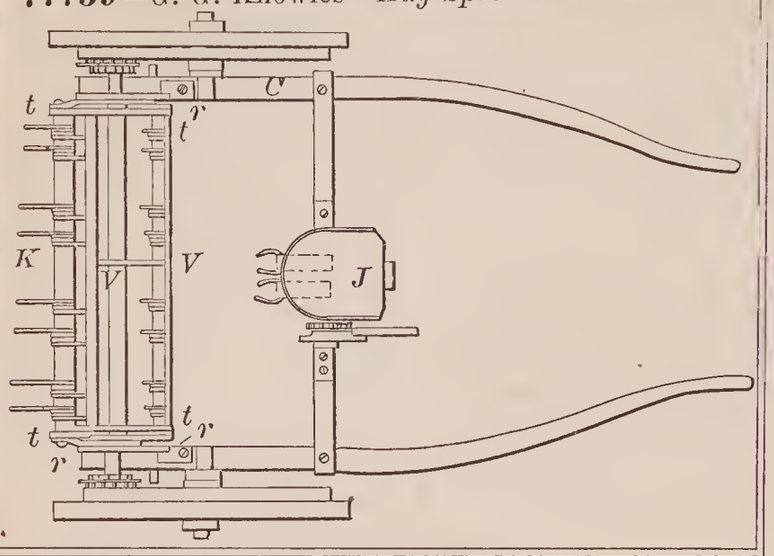


77737—A. Jones—*Harrow Tooth.*

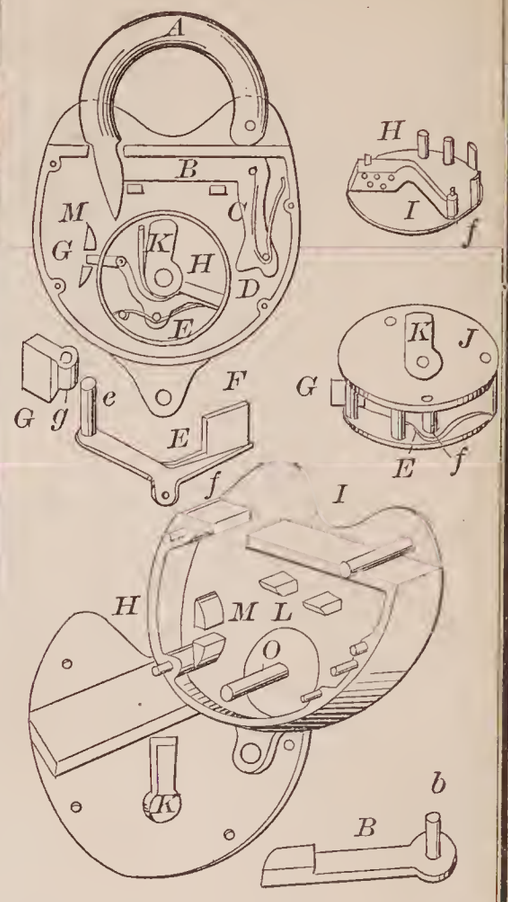
77738—Joslin & Newhall—*Bed Bottom.*



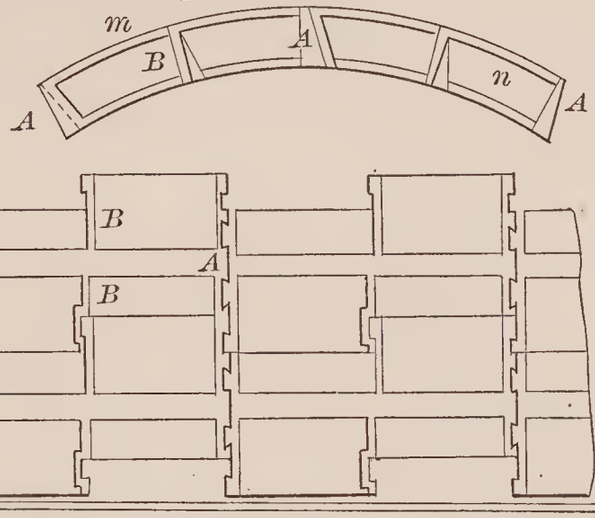
77739—G. G. Knowles—*Hay Spreader.*



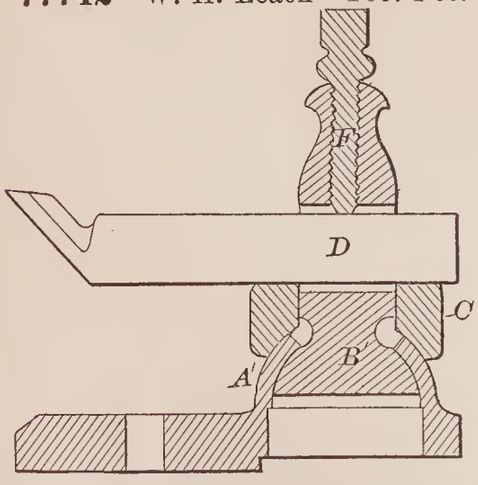
77740—F. F. Landis—*Padlock.*



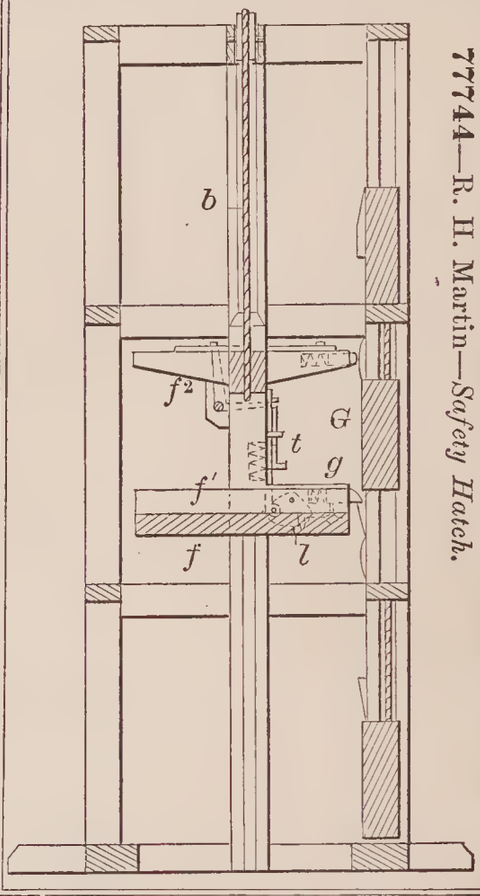
77741—G. T. Lape—*Bridge.*



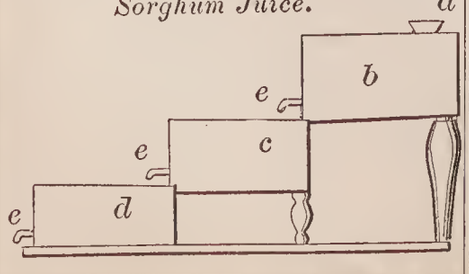
77742—W. H. Leach—*Tool Post for Lathes.*



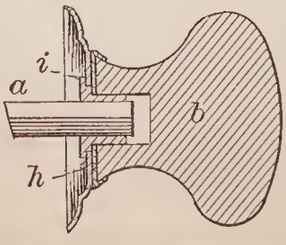
77744—R. H. Martin—*Safety Hatch.*



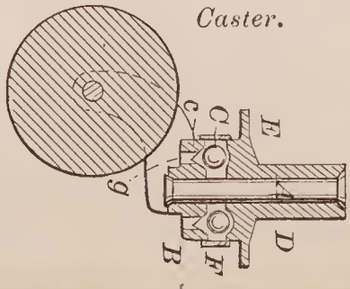
77746—W. Mathews—*Purifying Sorghum Juice.*



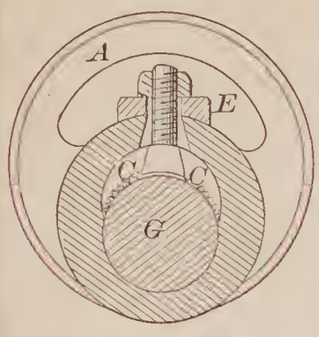
77745—T. Marvin—*Attaching Door Knobs*



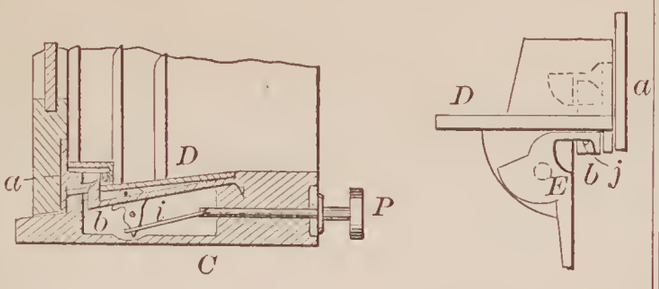
77743—S. N. Long—*Furniture Caster.*



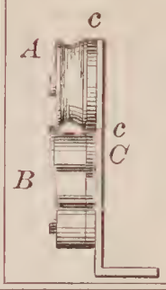
77747—Miller & Stevens—*Hub Fastening for Eccentrics.*



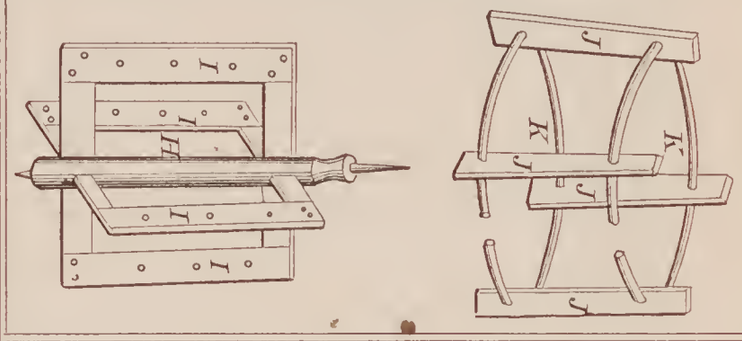
77748—W. J. Miller—*Shutter Fastening.*



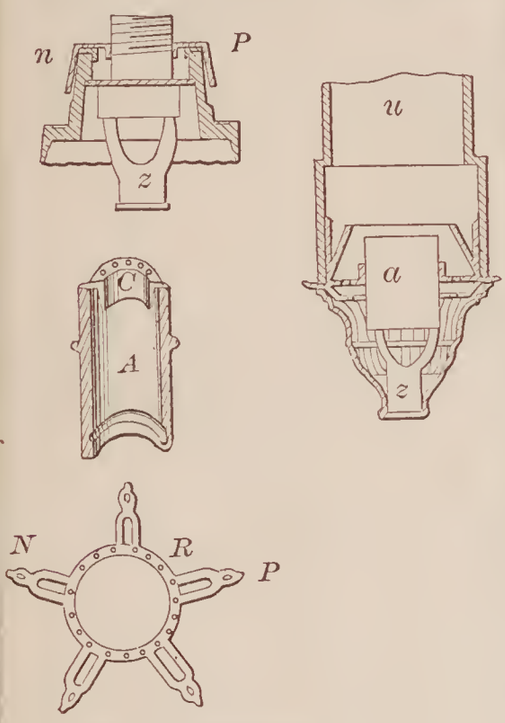
77750—H. Morgan—*Clothes Line Holder.*



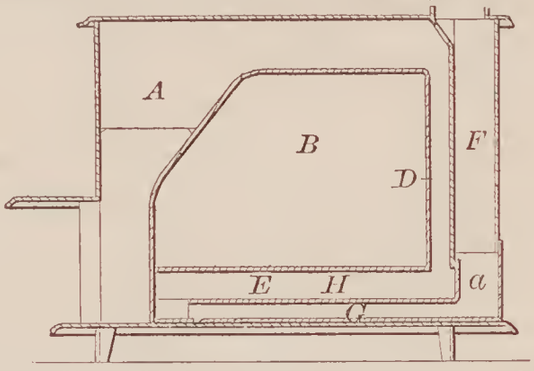
77753—E. P. Newman—*Churn.*



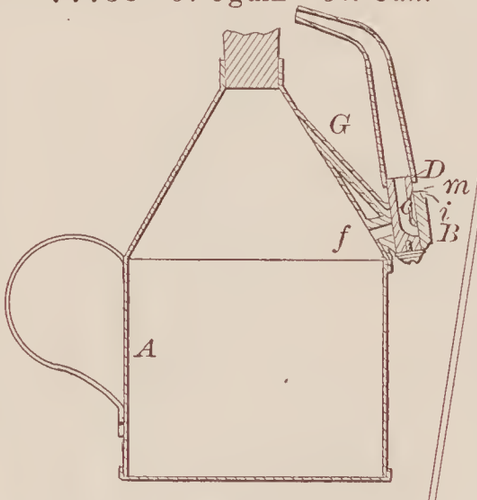
77749—H. Monier—*Gas Burner.*



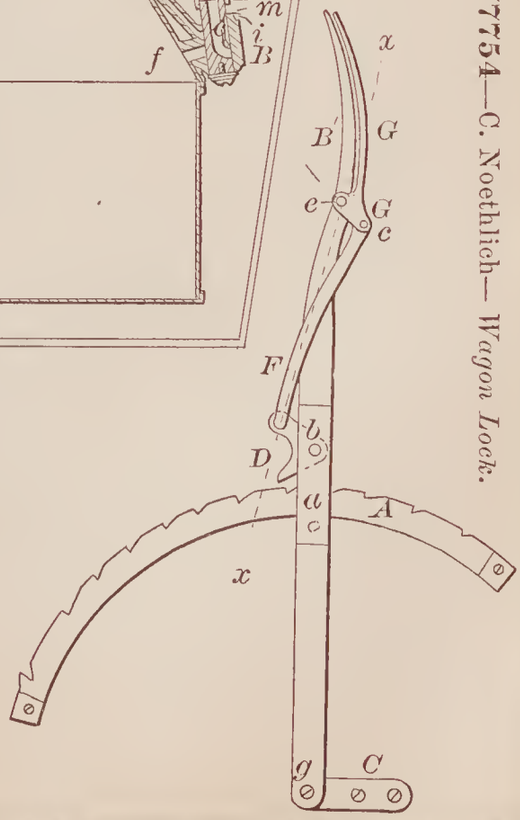
77751—B. L. Mott, Jr.—*Cooking Stove.*



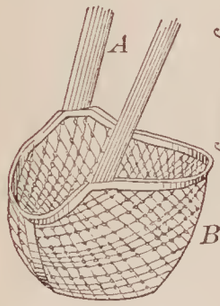
77755—J. Ogdin—*Oil Can.*



77754—C. Noethlich—*Wagon Lock.*

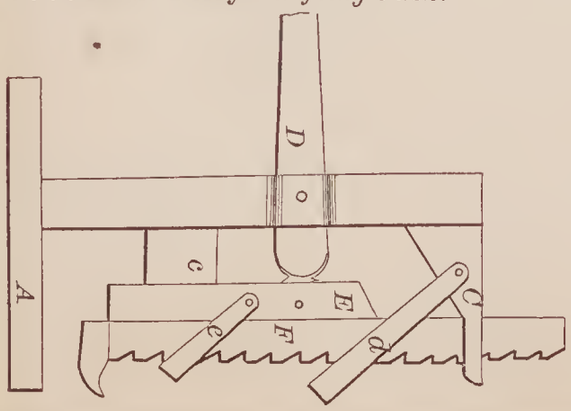


77757—W. H. Phelps—*Suspensory Bandage.*

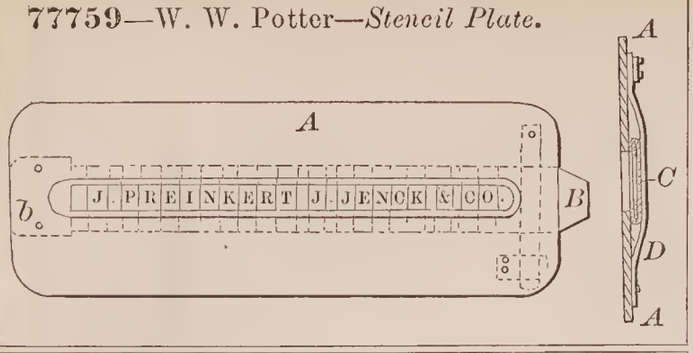


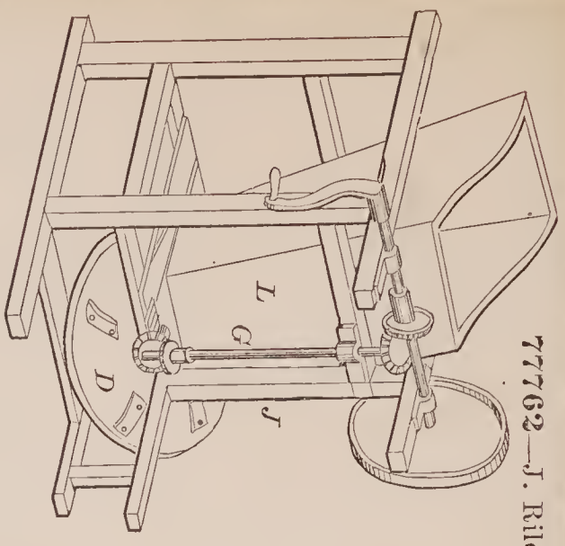
77752—G. Murray, Jr.—*Meat Pounder and Ice Pick.*

77756—S. Perry—*Lifting Jack.*

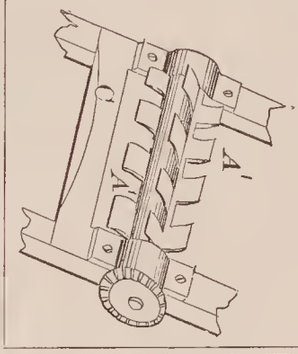


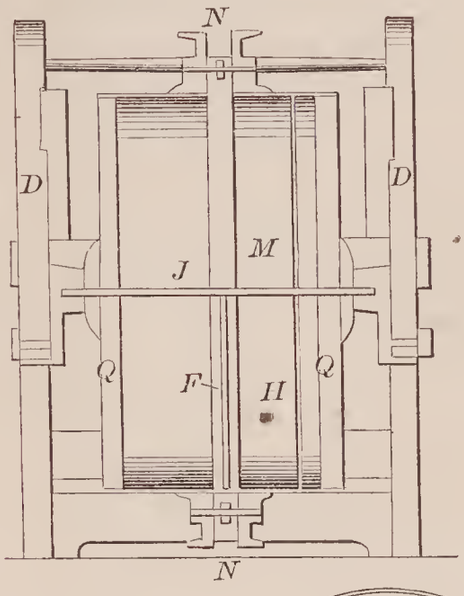
77759—W. W. Potter—*Stencil Plate.*

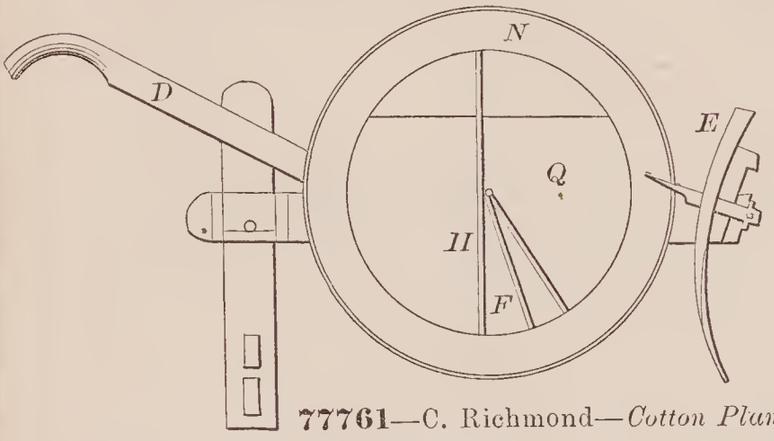




77762—J. Riley—*Straw Cutter.*

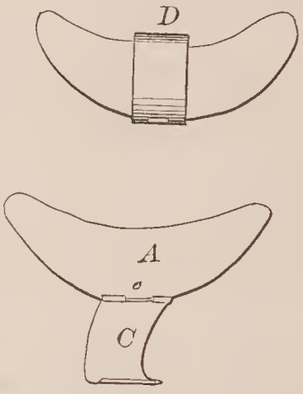




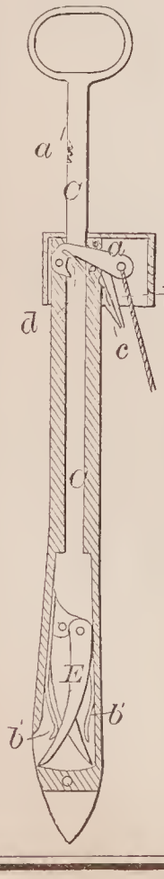


77761—C. Richmond—*Cotton Planter.*

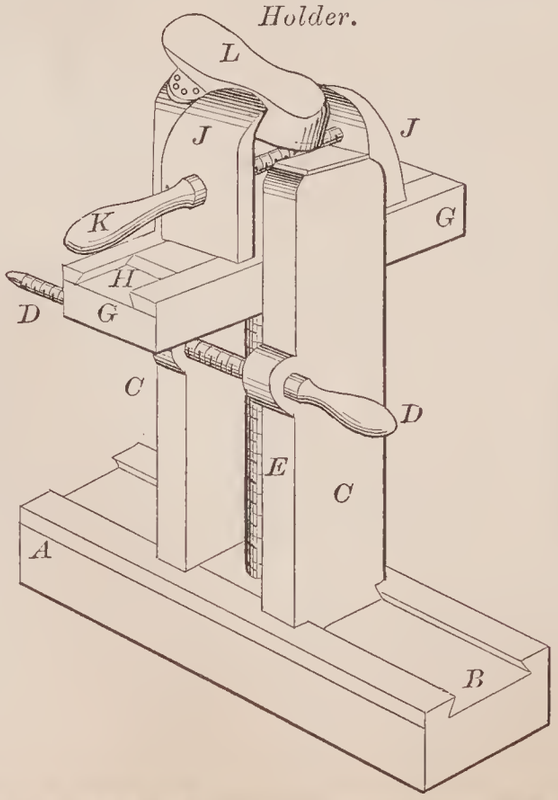
77765—S. D. Roof—*Necktie Frame.*



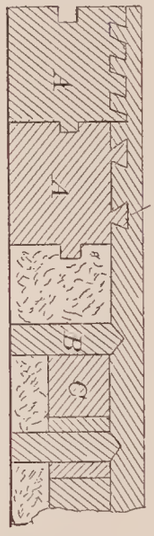
77760—Rhoades & Carroll—*Horse Hay Fork.*



77764—A. J. Rock—*Last and Shoe Holder.*

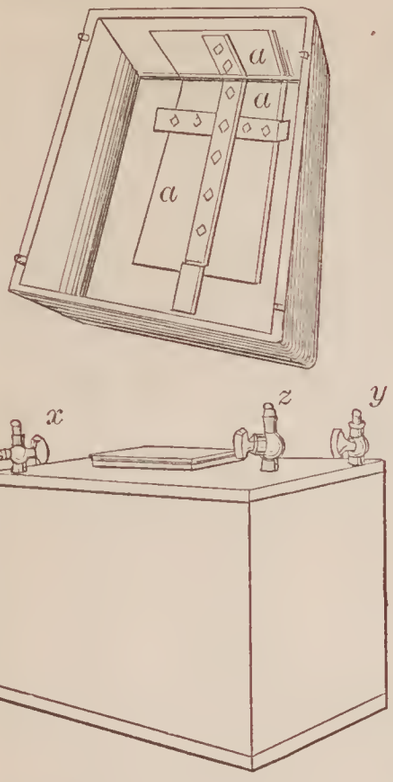


77766—S. I. Russel—*Sidewalk.*

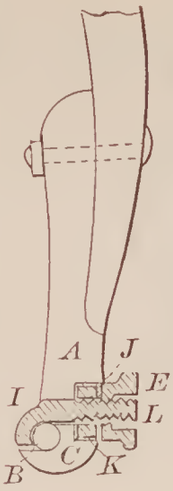


77767—E. O. Schartau—*Lamp Wick.*

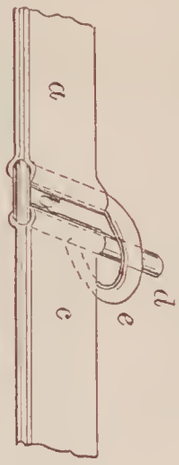
77768—S. F. Shoonmaker—*Transporting and Storing Grain.*



77769—A. Searls—*Shaft Coupling.*

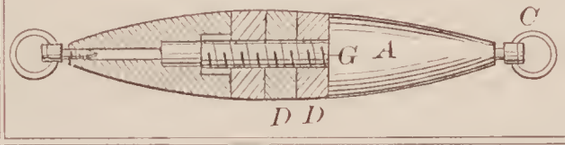


77770—G. A. Seaver—*Cotton Bale Tie.*

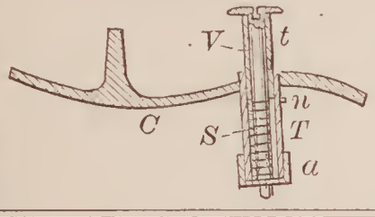


77772—S. E. Skilling—*Tube Well.*

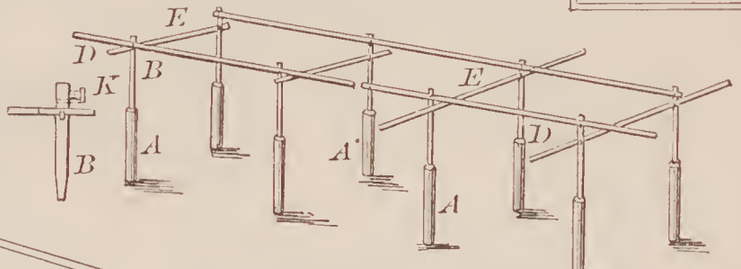
77774—W. H. Smith—*Fishing Line Sinker.*



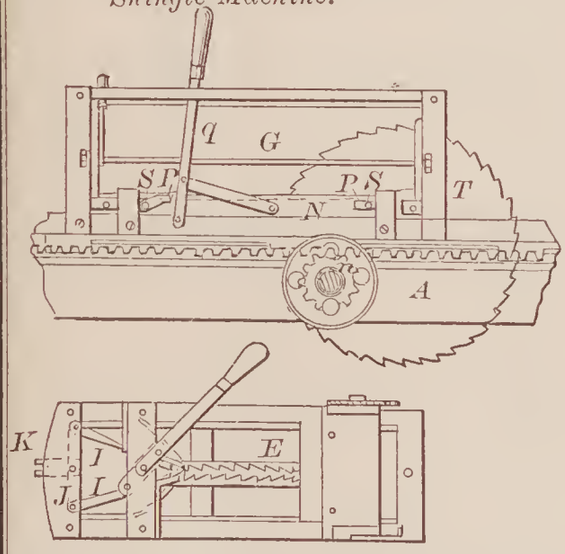
77773—Smith & Wilcox—*Dentistry.*



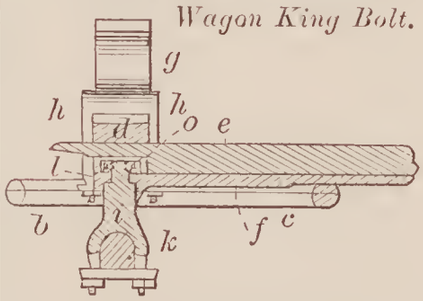
77775—L. D. Snook—*Hop Trellis.*



77776—Southwick & Gillett—*Shingle Machine.*

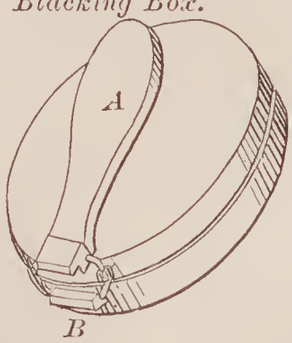


77782—J. J. Waldron—*Wagon King Bolt.*

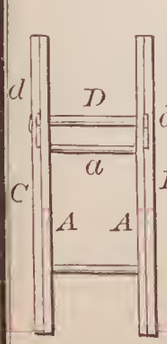


77771—Shipley & Mercereau—*For Lighting Gas, &c.*

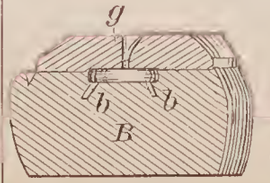
77778—T. H. Spencer—*Blacking Box.*



77779—A. Stanley—*Saw Horse.*

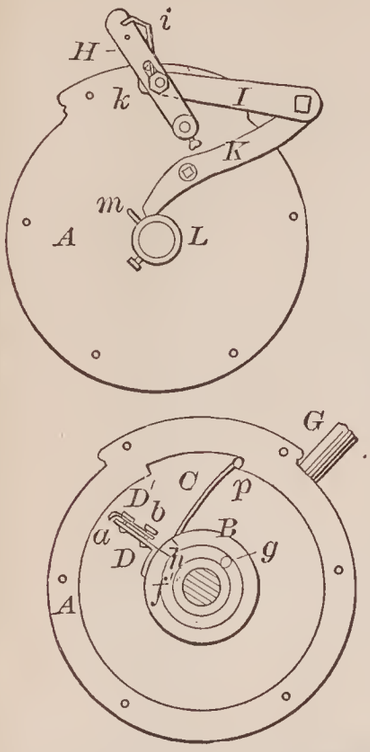


77781—J. Turel—*Lettering Marble.*

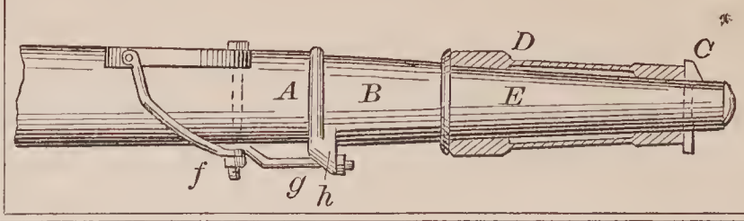


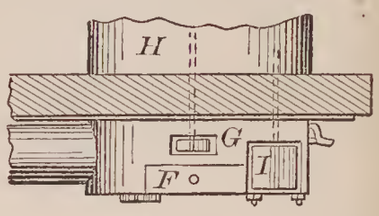
77783—D. Walker—*Blotter.*

77780—Thunell & Hedstrom—*Rotary Steam Engine.*

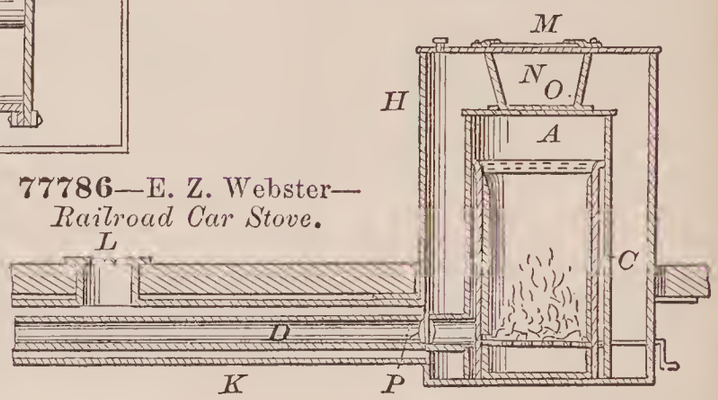


77785—J. Weathers—*Attaching Hubs to Axles.*

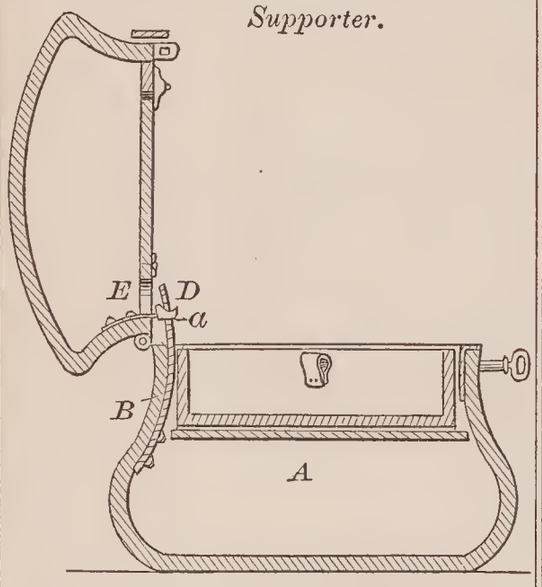


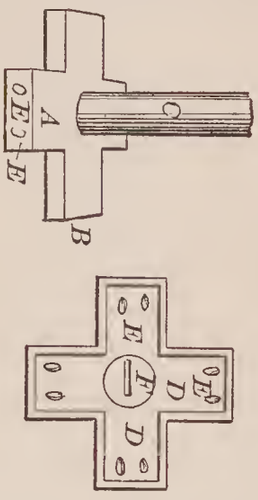


77786—E. Z. Webster—*Railroad Car Stove.*

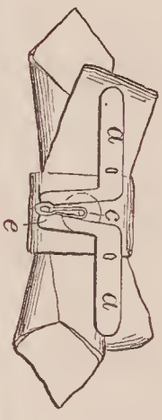


77787—S. Wehrly—*Trunk Lid Supporter.*



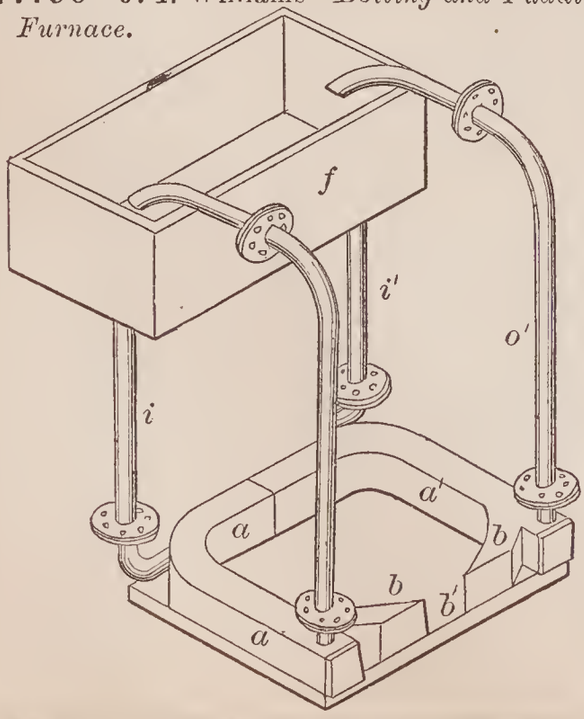


77789—Williams & Lemon—*Churn Dasher.*

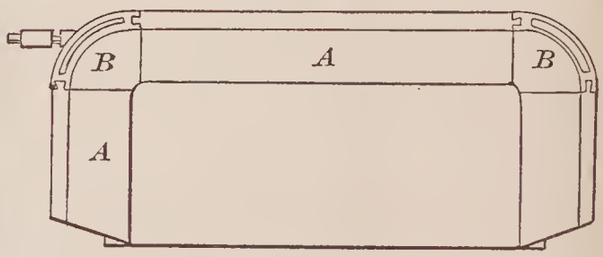


77788—P. Welch—*Necktie Frame.*

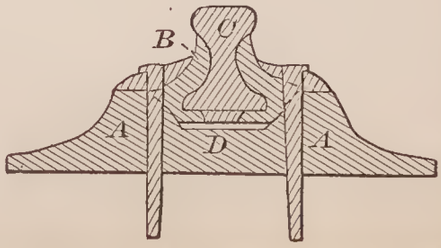
77790—J. I. Williams—*Boiling and Puddling Furnace.*



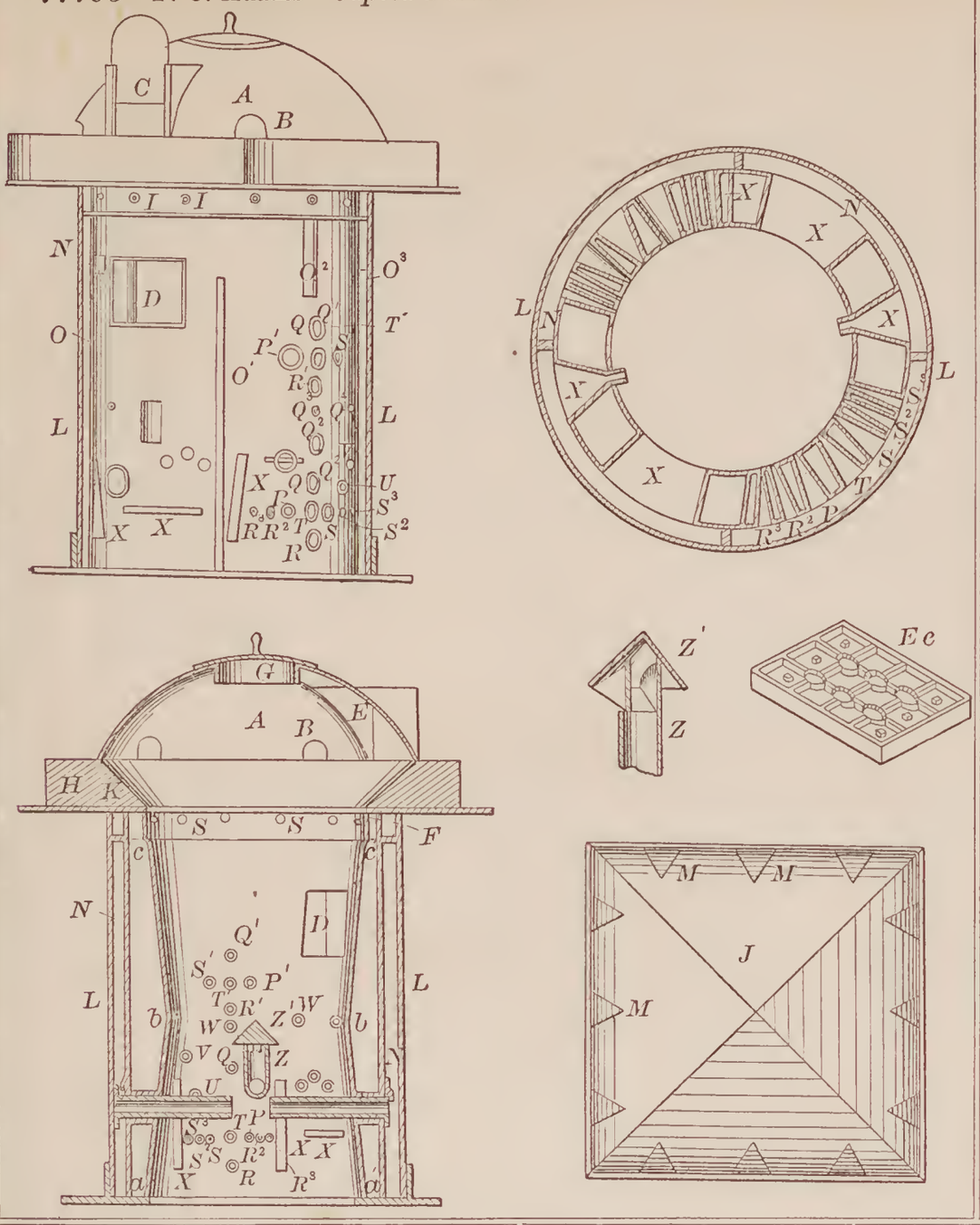
77791—L. W. Wolfe—*Vehicle Seat.*



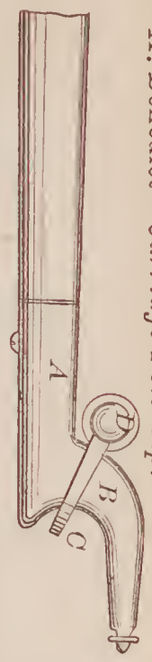
77794—R. Zider—*Railway Chair.*



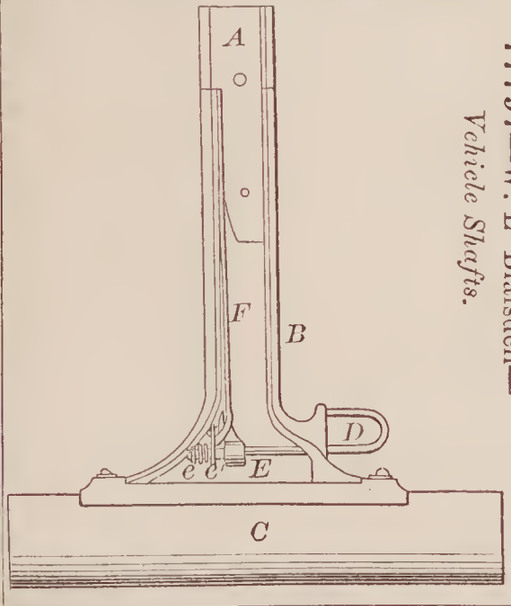
77795—F. C. Adams—*Cupola Furnace.*



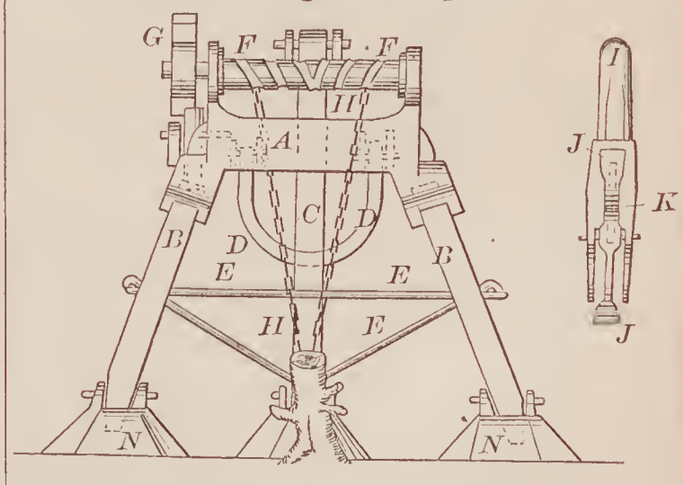
77796—A. Benedict—*Carriage Pole Tip.*



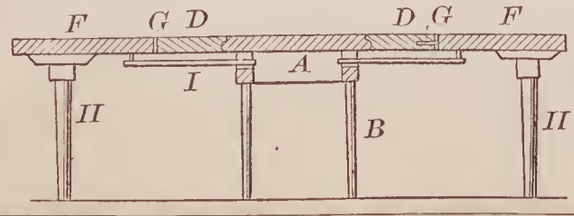
77797—W. L. Blaisdell—*Vehicle Shafts.*

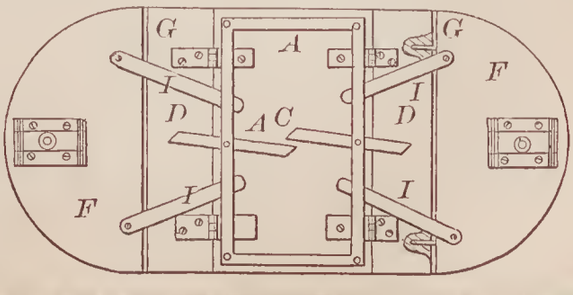


77798—I. J. Bogert—*Stump Extractor.*

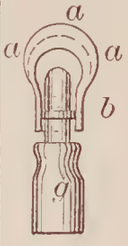


77801—D. Cole—*Table Extension.*

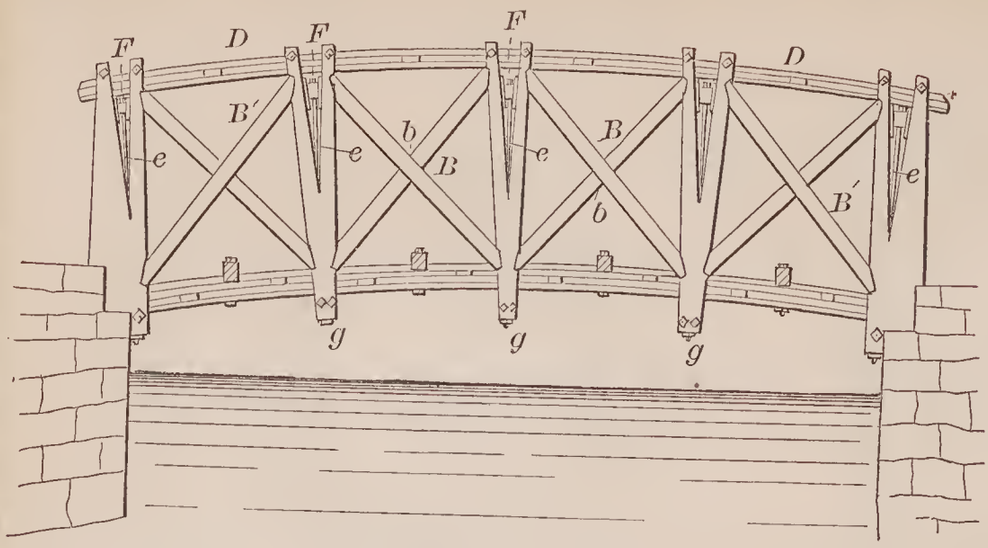


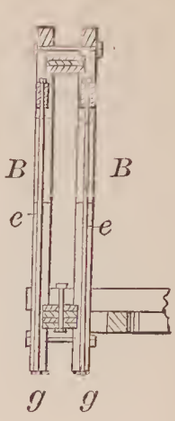


77799—C. L. Browne—*Flame Aerator.*

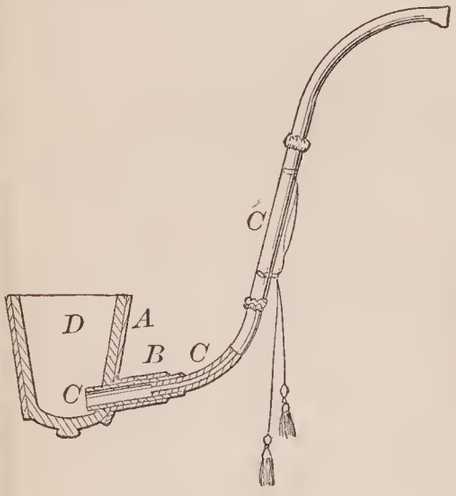


77800—E. M. Carpenter—*Suspension Bridge.*

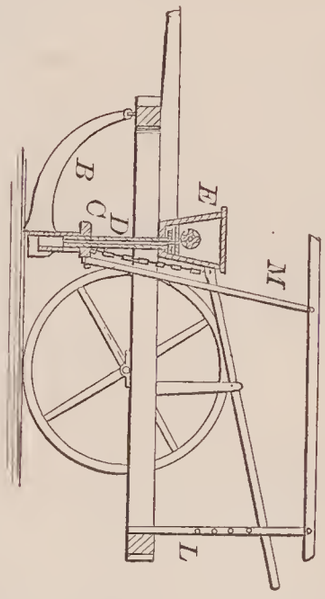




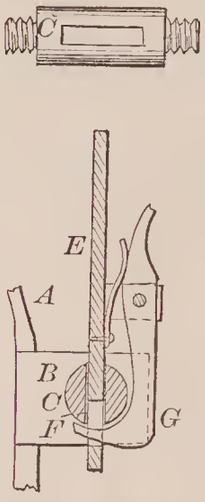
77803—H. G. Dayton—*Tobacco Pipe.*



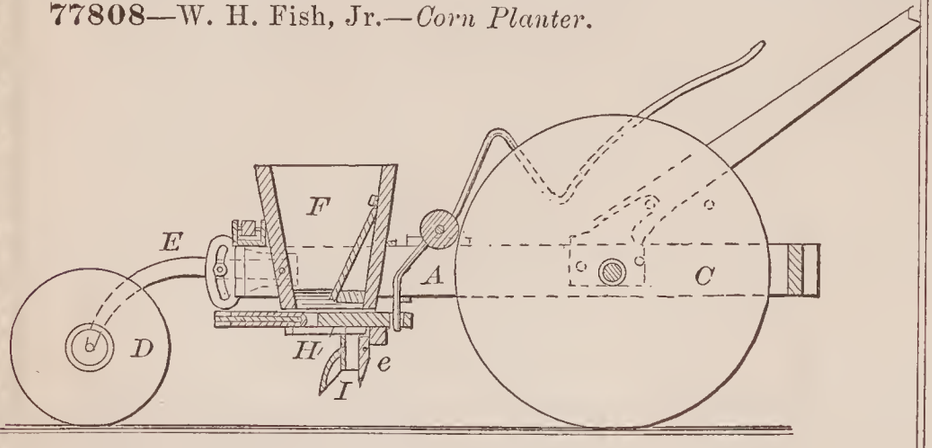
77802—J. W. Davidson—*Wheat Drill.*



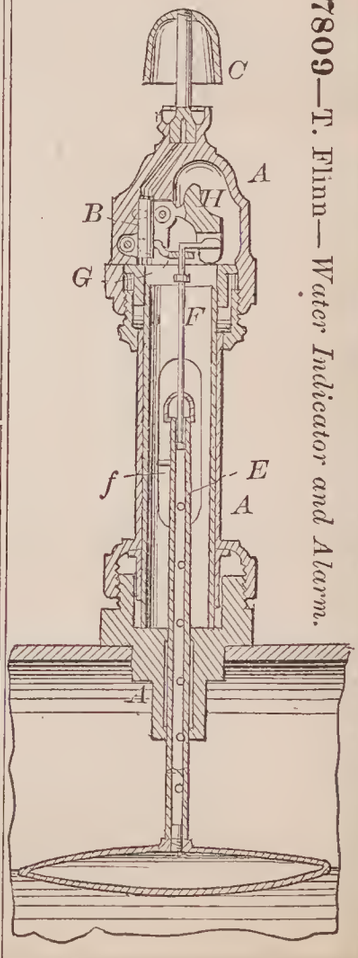
77804—L. Derby—*Thill Fastener.*



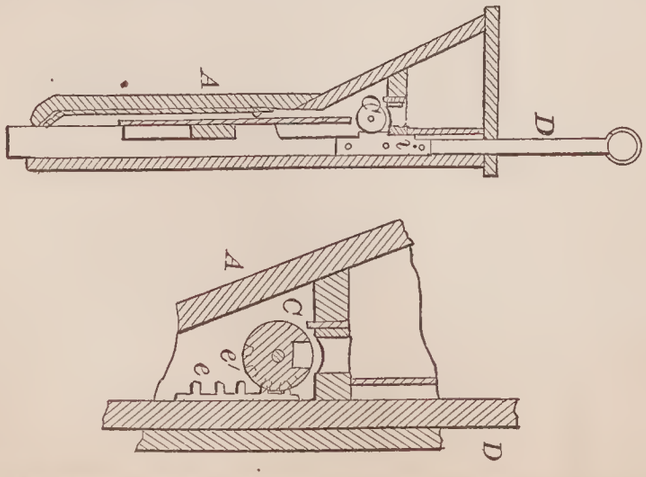
77808—W. H. Fish, Jr.—*Corn Planter.*



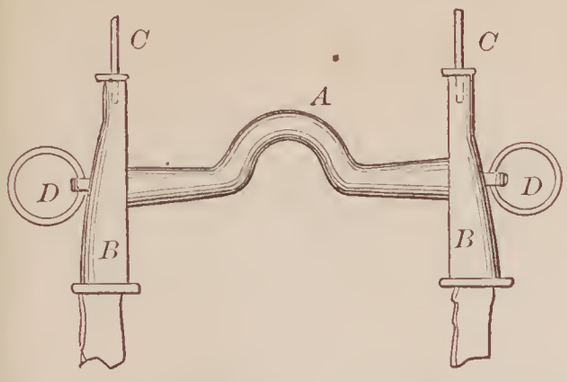
77809—T. Flinn—*Water Indicator and Alarm.*



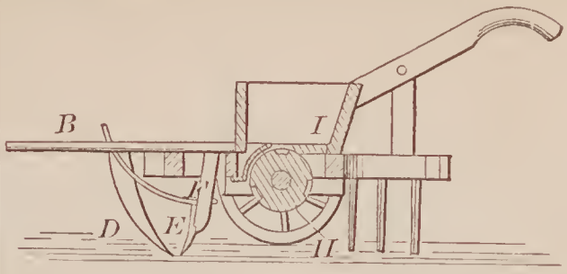
77807—J. Elbertson—*Corn Planter.*



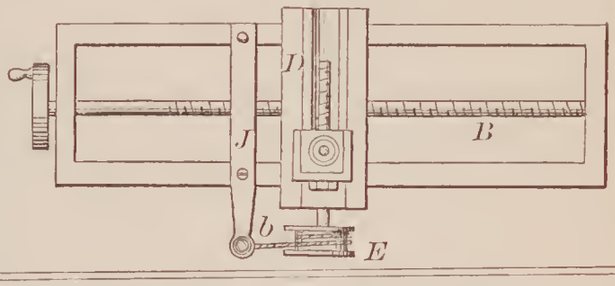
77810—W. S. Ford—*Bridle Bit.*



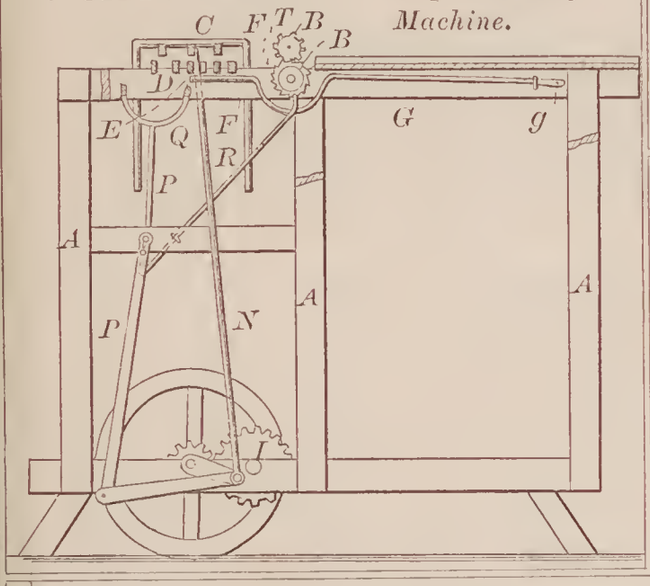
77811—A. J. Going—*Corn Planter.*



77812—L. Griscom—*Lathe.*

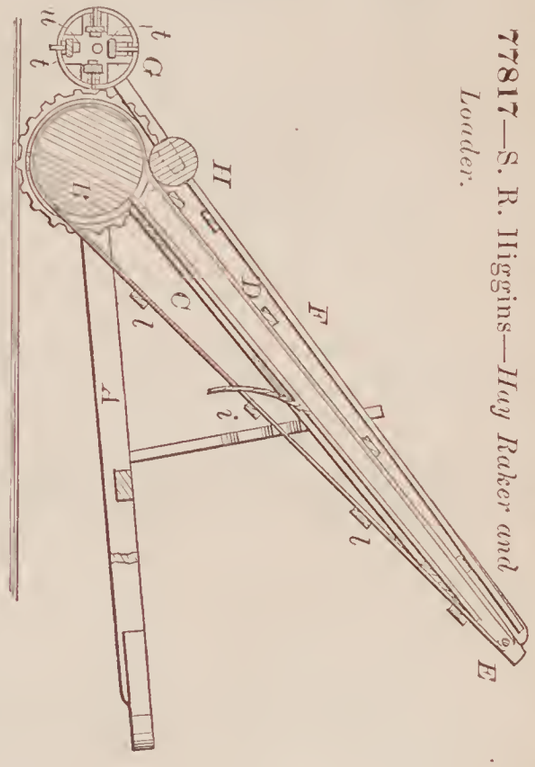


77815—J. S. Haskins—*Hemp Breaking Machine.*

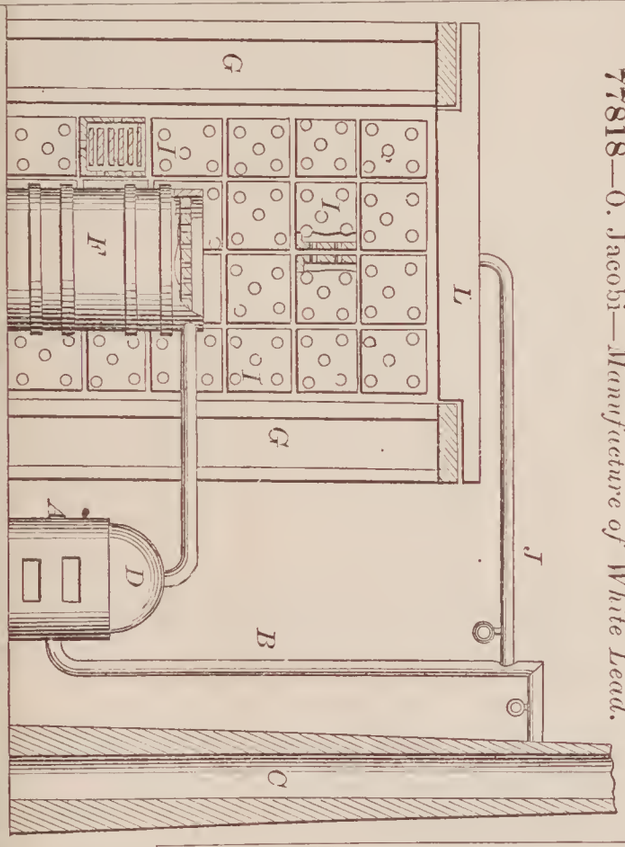


77816—A. W. Herr—*Fireproof Safe.*

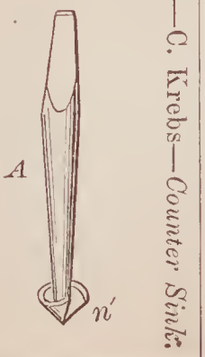
77817—S. R. Higgins—*Hay Raker and Loader.*



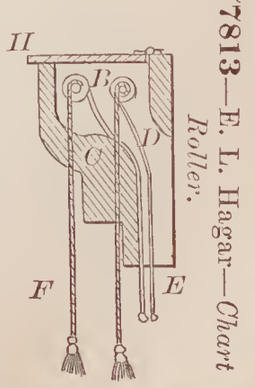
77818—O. Jacobi—*Manufacture of White Lead.*



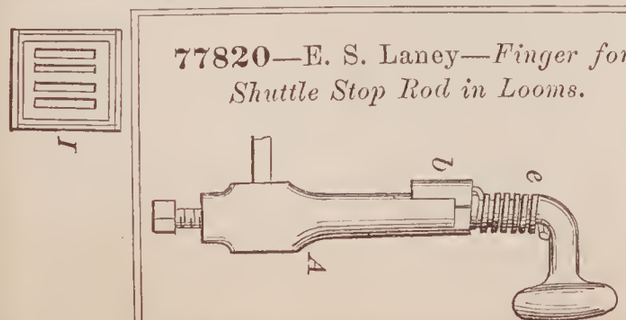
77819—C. Krebs—*Counter Sink.*



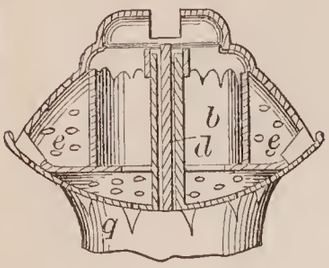
77813—E. L. Hagar—*Chart Roller.*



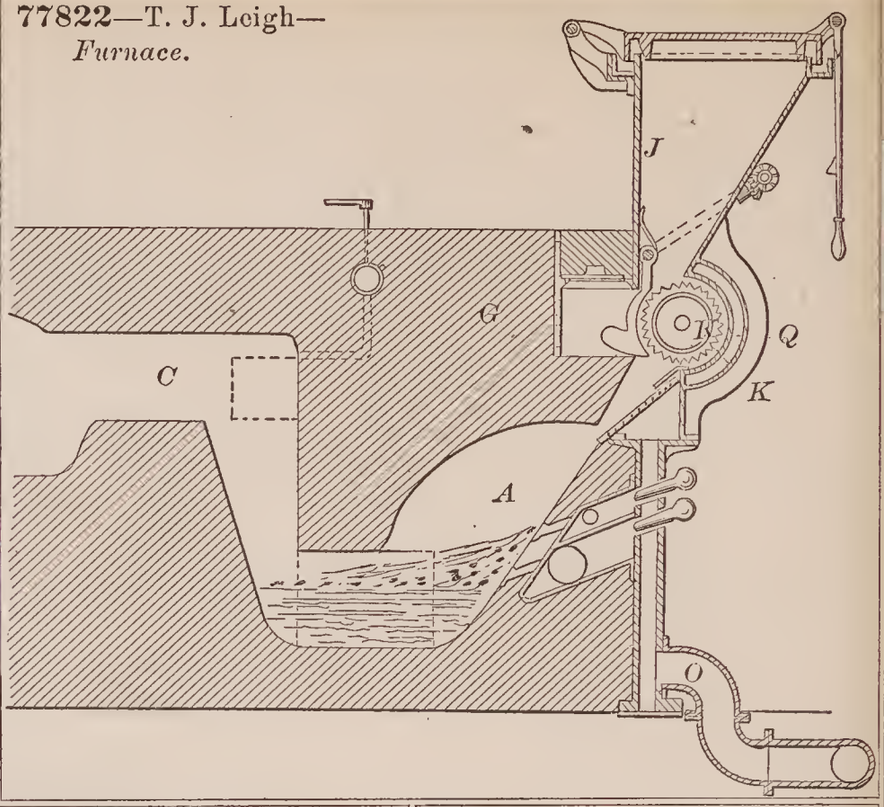
77820—E. S. Laney—*Finger for Shuttle Stop Rod in Looms.*



77821—G. Lavere—
Lamp Burner.

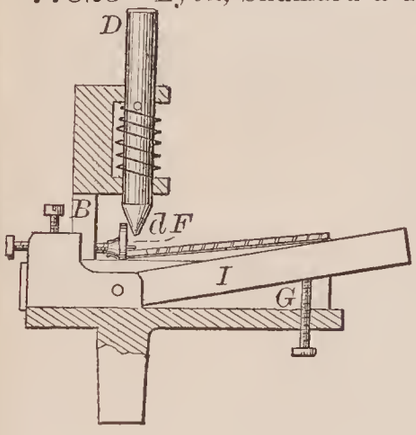


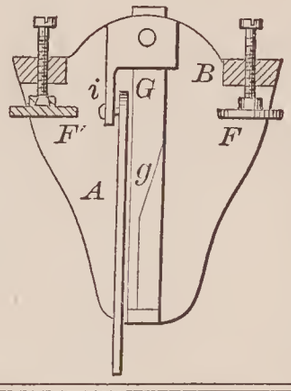
77822—T. J. Leigh—
Furnace.



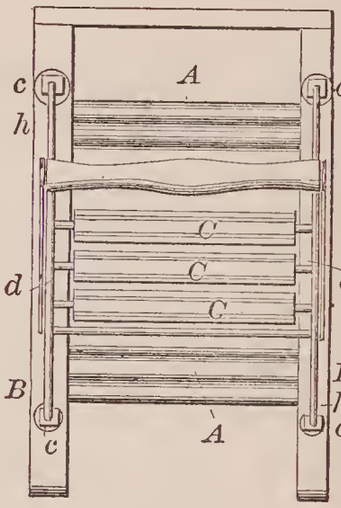
77823—W. H. Lippincott—
Vulcanite Billiard Ball.

77825—Lyon, Shumard & Robbins—*Saw Set.*

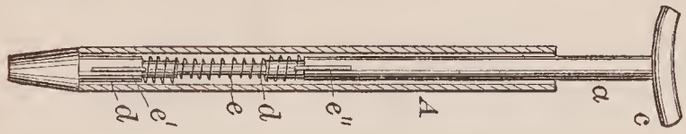


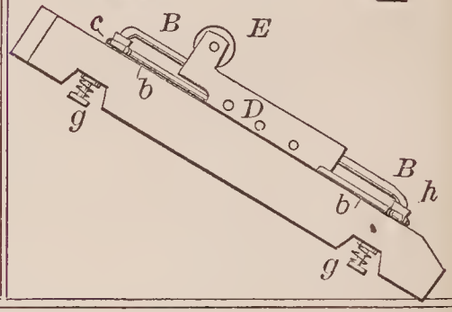


77828—M. McGarry—*Wash Board.*

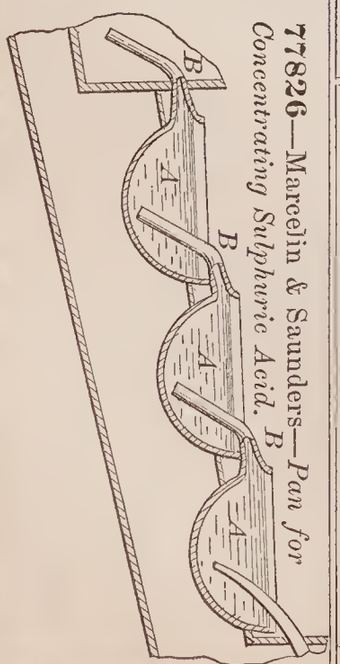


77824—J. A. Lobb—*Crutch.*

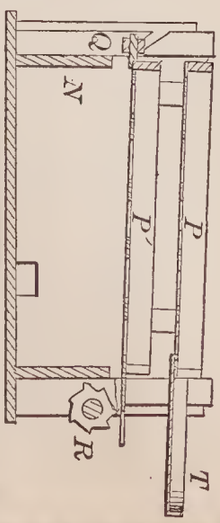


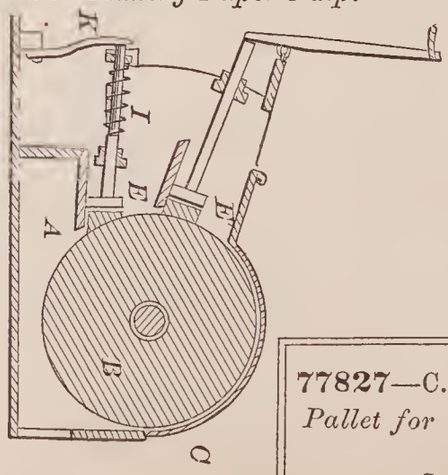


77826—Marcelin & Saunders—*Pan for Concentrating Sulphuric Acid.*

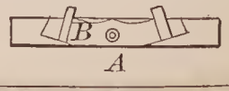


77829—W. Miller—*For Making Paper Pulp.*

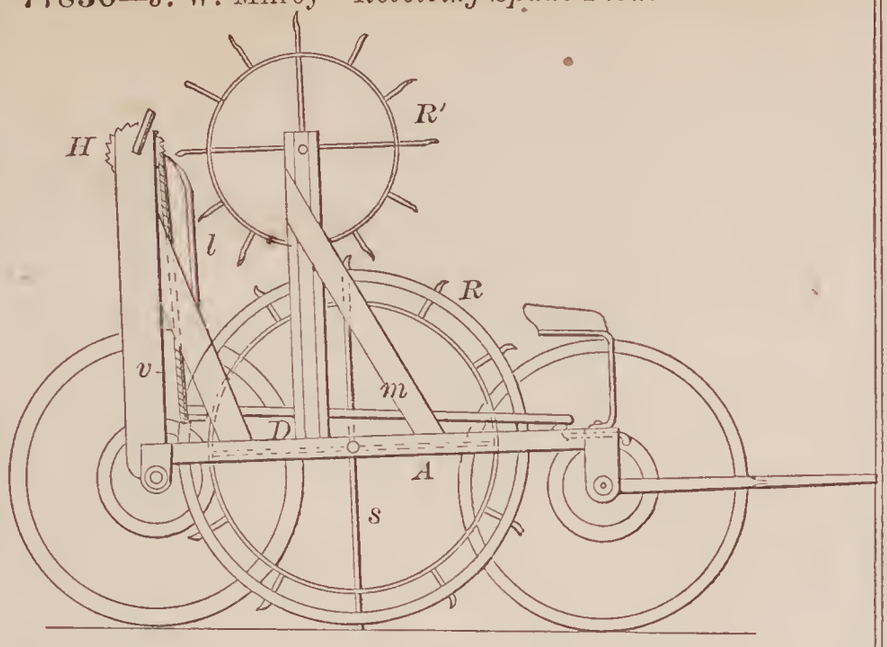




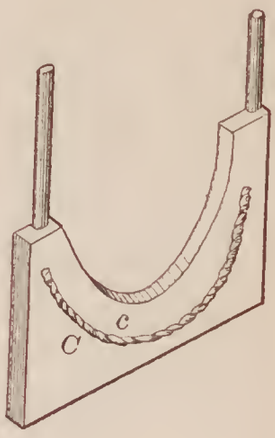
77827—C. E. Mason—
Pallet for Time Pieces.



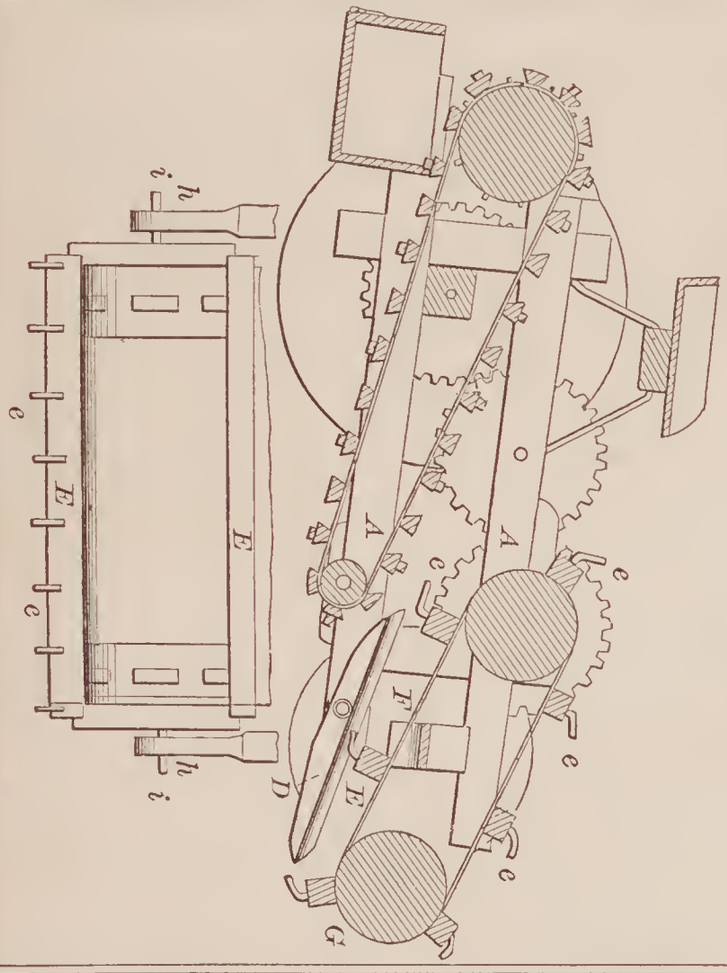
77830—J. W. Milroy—*Revolving Spade Plow.*



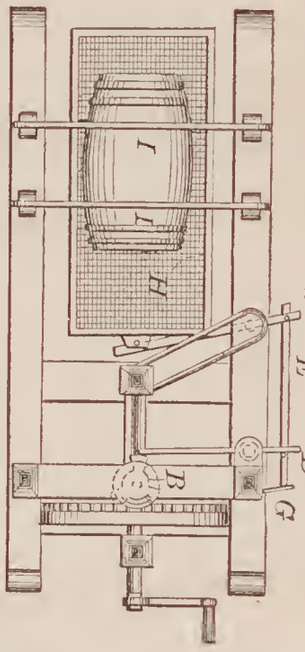
77831—Nathans & Thornton—*Car Axle Box.*



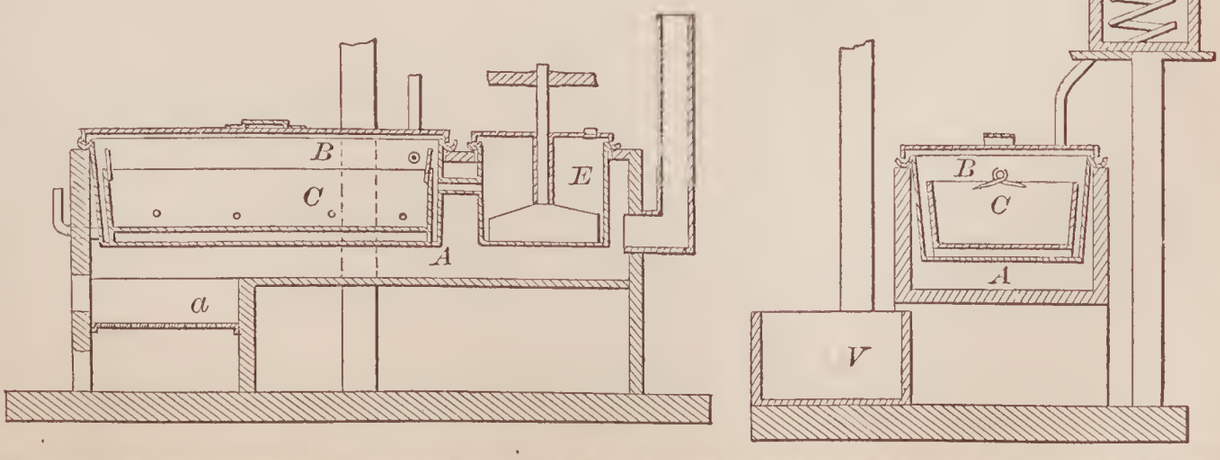
77833—G. N. Palmer—*Stone Gathering Machine.*



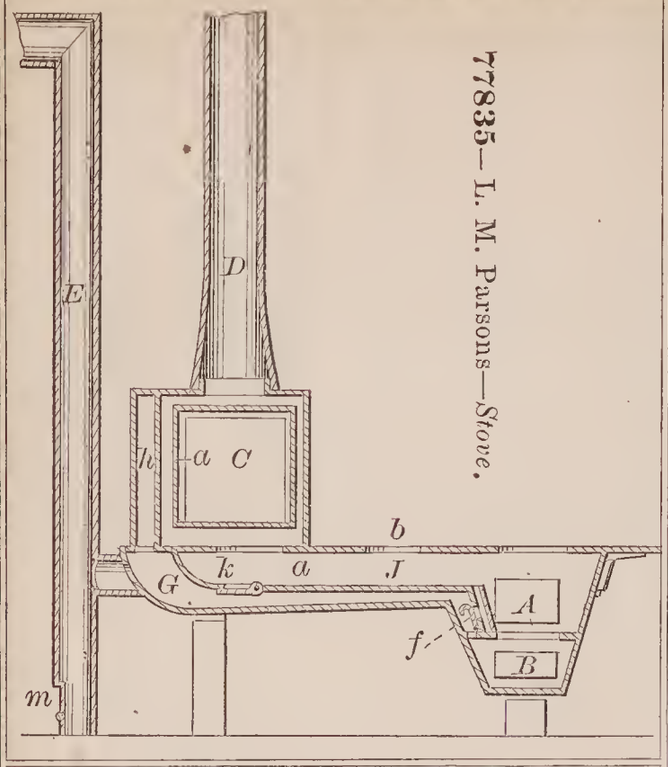
77832—J. Novek—*Flour Sifter.*



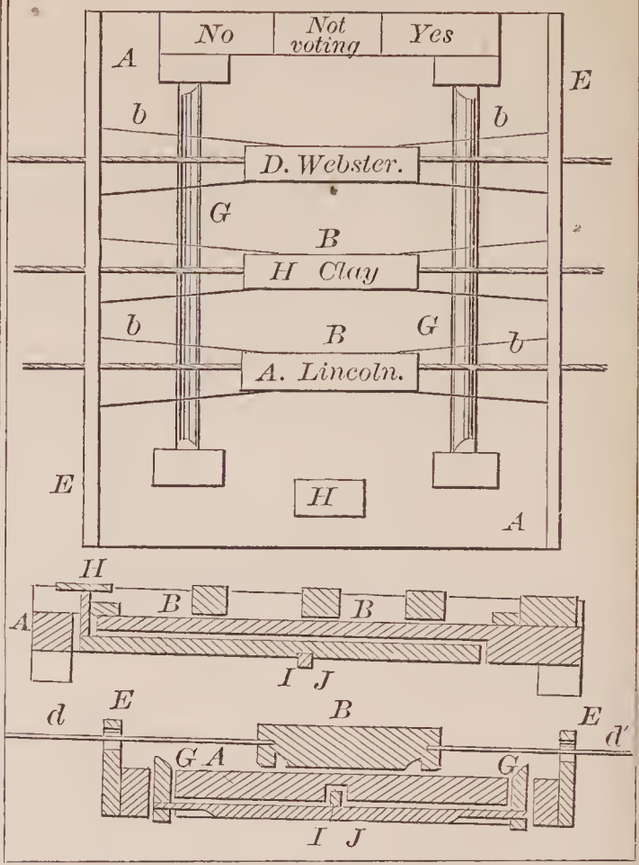
77834—Parrott & Boardman—*Removing Metallic Scales from Glass and "Moils."*



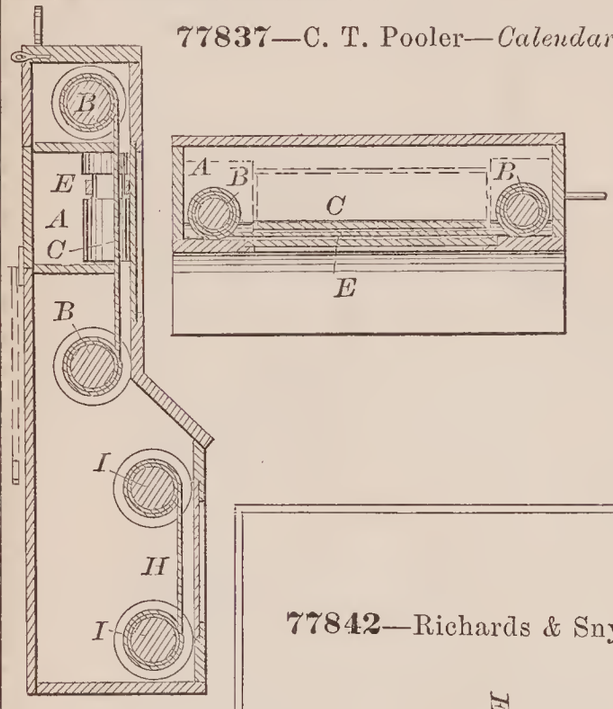
77835—L. M. Parsons—*Stove.*



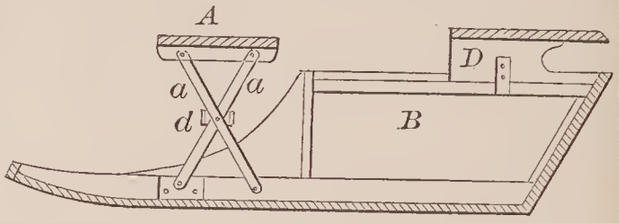
77836—N. A. Patterson—*Vote Register.*



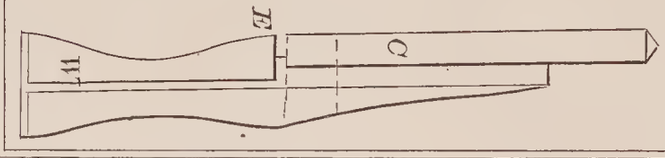
77837—C. T. Pooler—*Calendar.*



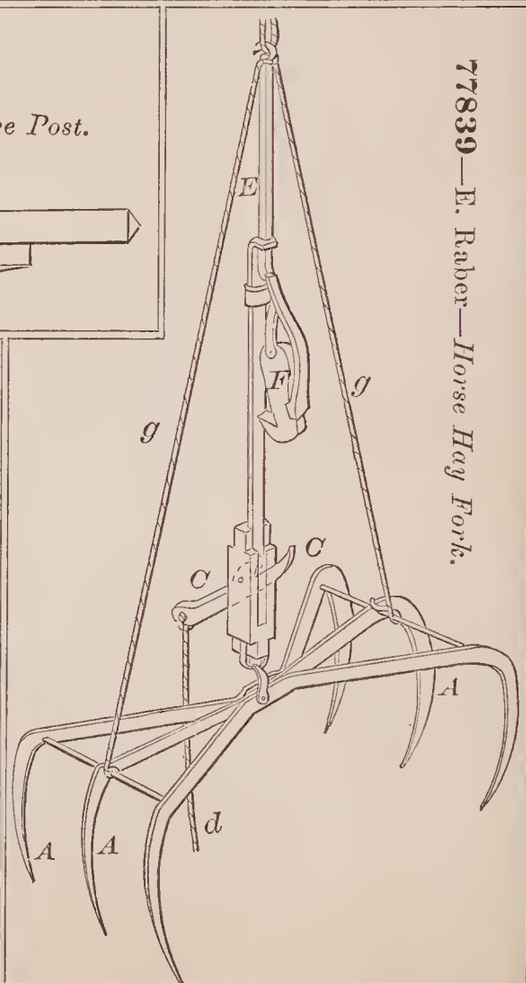
77838—L. Pray—*Vehicle Seat.*



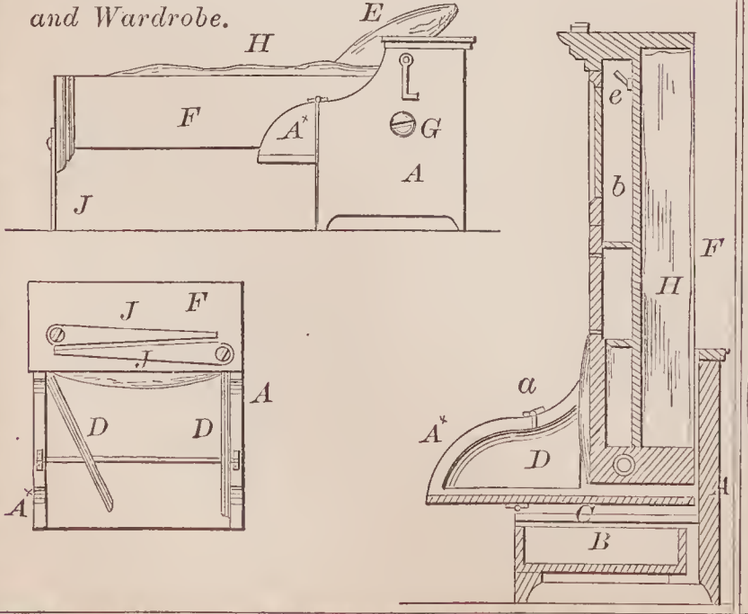
77842—Richards & Snyder—*Fence Post.*



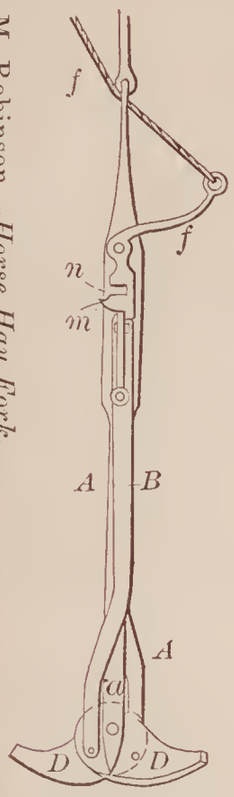
77839—E. Raber—*Horse Hay Fork.*



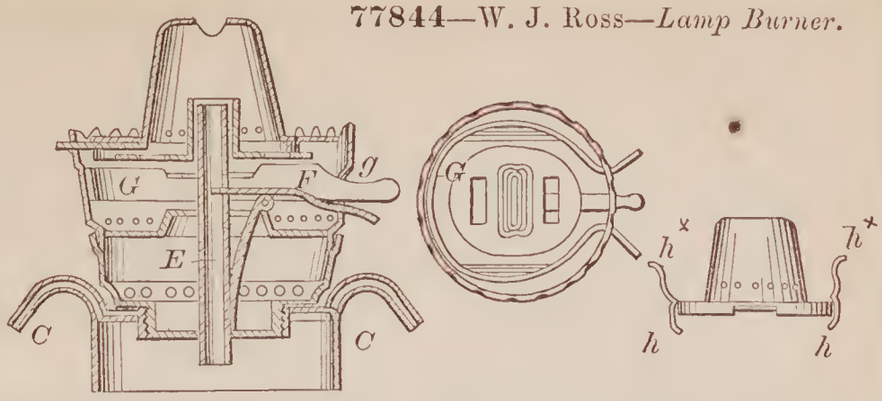
77841—W. Reckards—*Bedstead, Chair, Secretary and Wardrobe.*



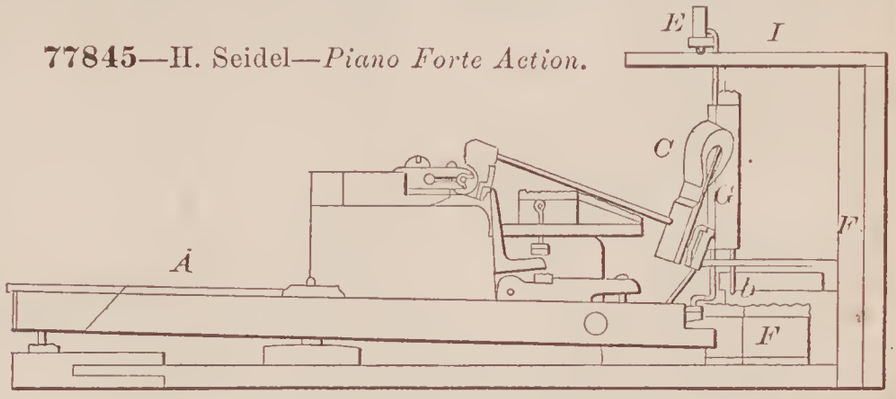
77843—G. M. Robinson—*Horse Hay Fork.*



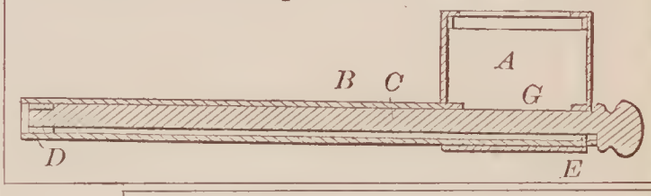
77844—W. J. Ross—*Lamp Burner.*



77845—H. Seidel—*Piano Forte Action.*

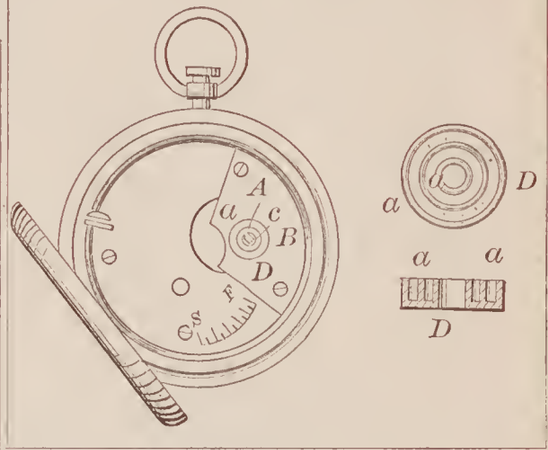


77846—J. F. Shepard—*For Making Cigars.*

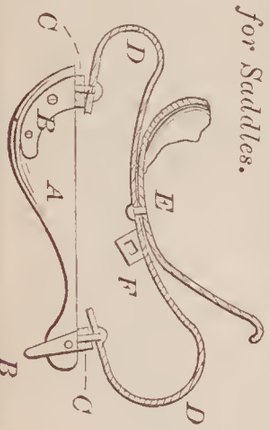


77847—
T. F. Snover—
Machine Belt.

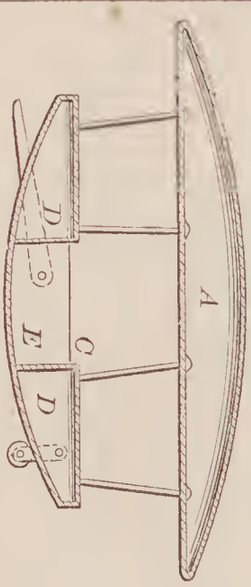
77848—C. Springer—*Watch.*



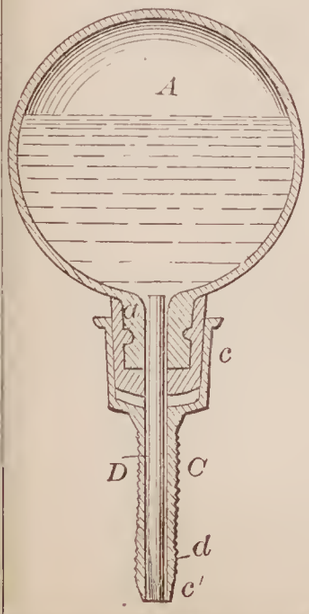
77849—R. J. Steele, Jr.—*Spring Seat for Saddles.*



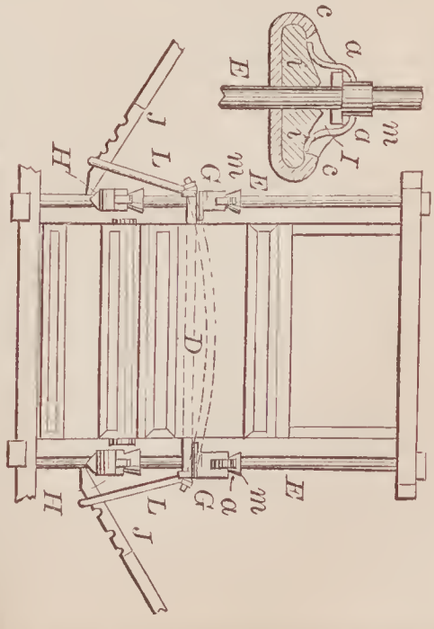
77850—Z. Stone—*Aerial Navigator.*



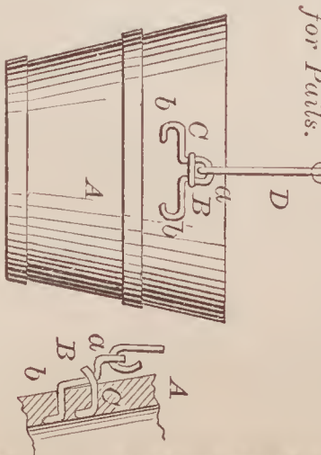
77851—H. Taylor—
Lubricator.



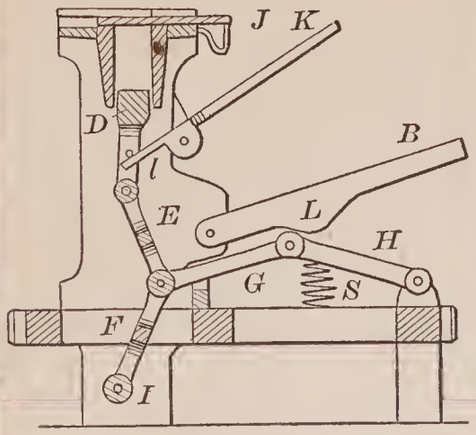
77852—G. Utley—*Hay and Cotton Press.*



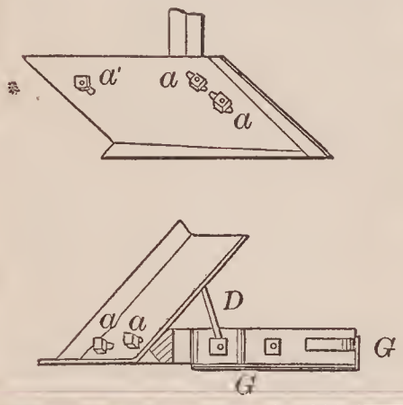
77853—J. Walton—*Bail Ear for Pails.*



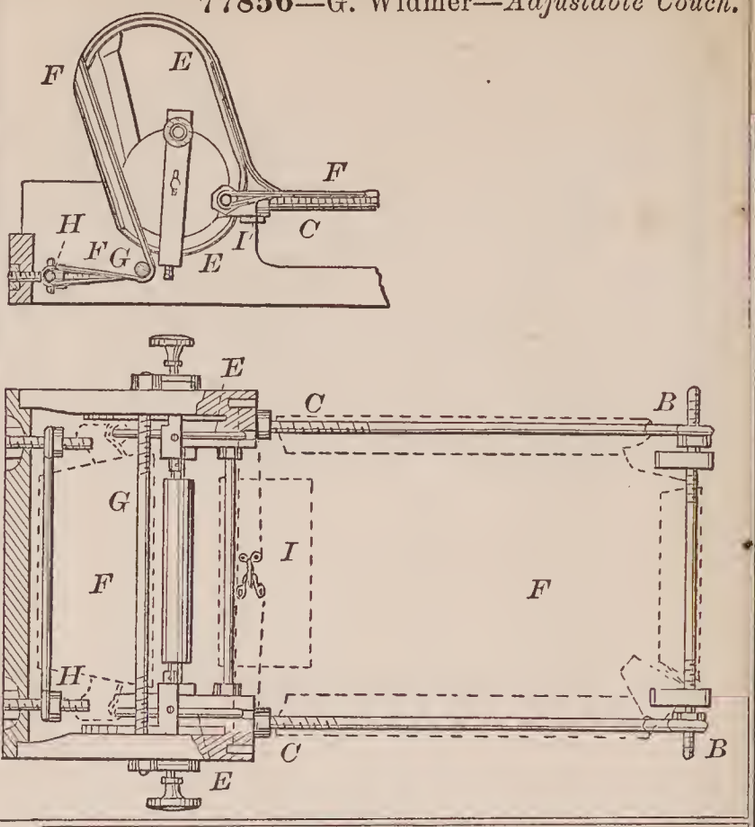
77854—L. S. Warner—*Concrete Block Press.*



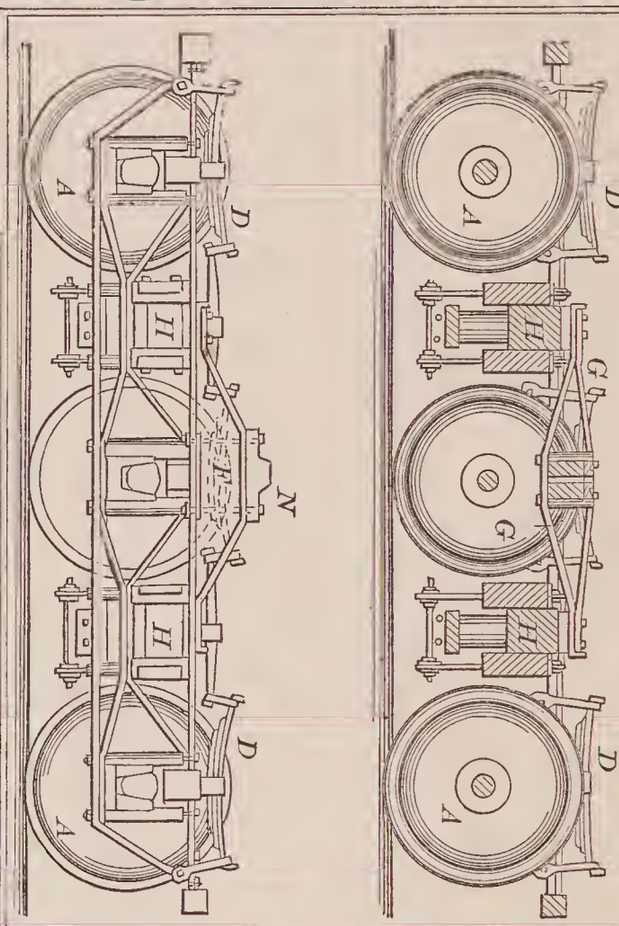
77855—T. P. Warren—*Plow.*



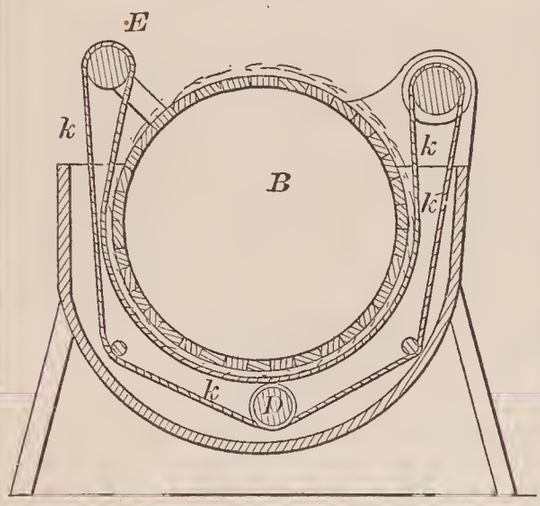
77856—G. Widmer—*Adjustable Couch.*



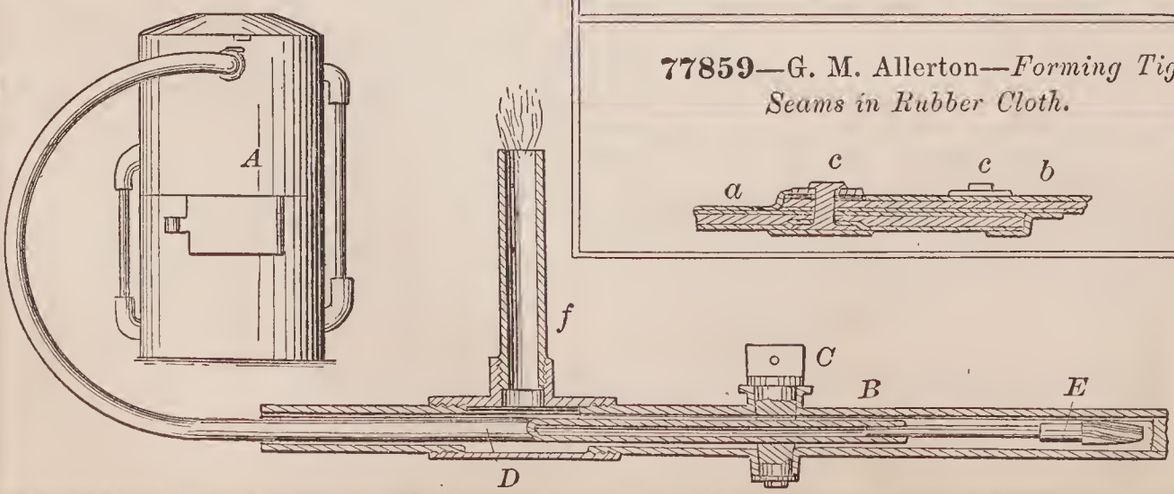
77858—C. F. Allen—*Car Truck.*



77861—D. C. Baker—*Washing Machine.*

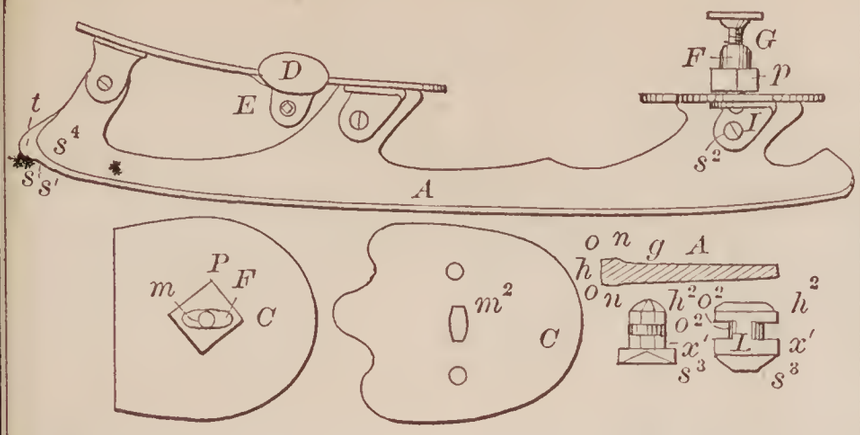


77857—W. Young—*For Clearing Pipes.*

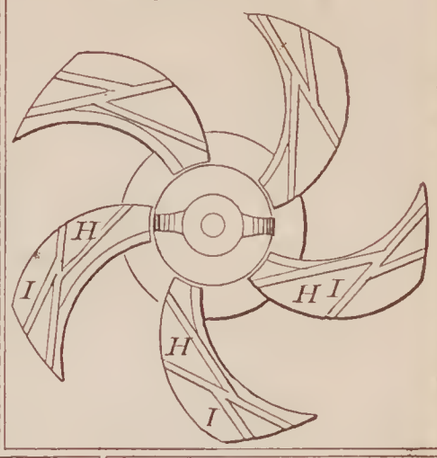


77859—G. M. Allerton—*Forming Tight Seams in Rubber Cloth.*

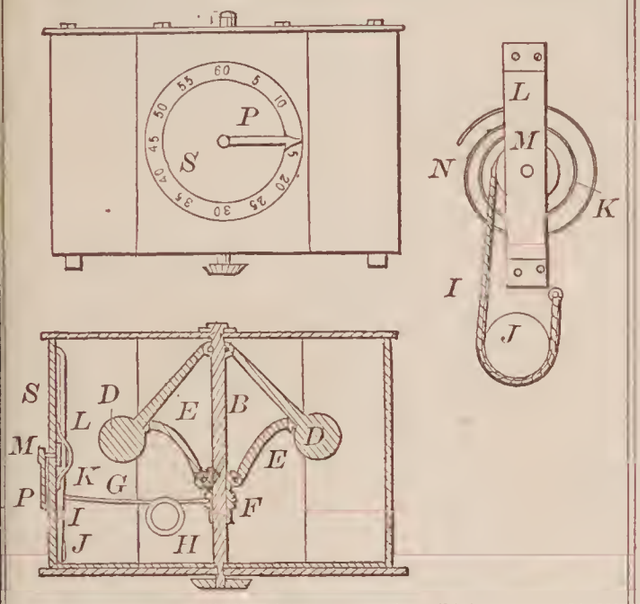
77862—Barney & Berry—*Skate.*



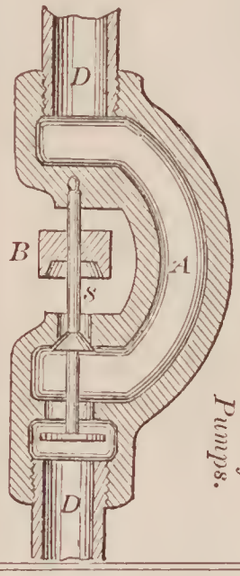
77868—J. H. Bullock—*Amalgamator Shoe.*



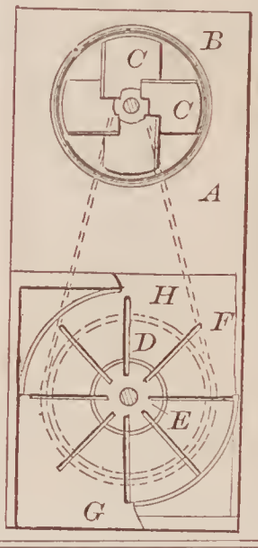
77864—N. P. Bowsher—*Power Indicator.*



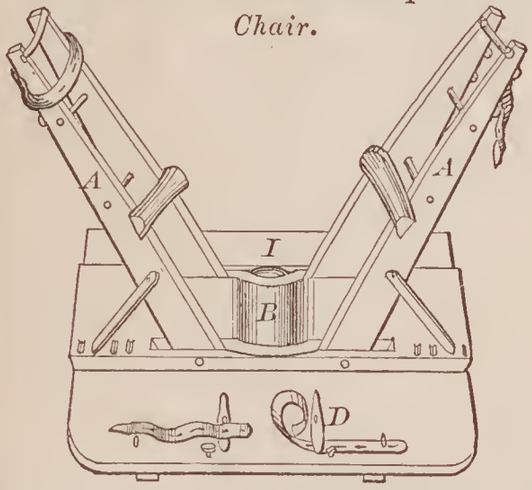
77865—G. E. Brettell—*Waste Valve for Pumps.*



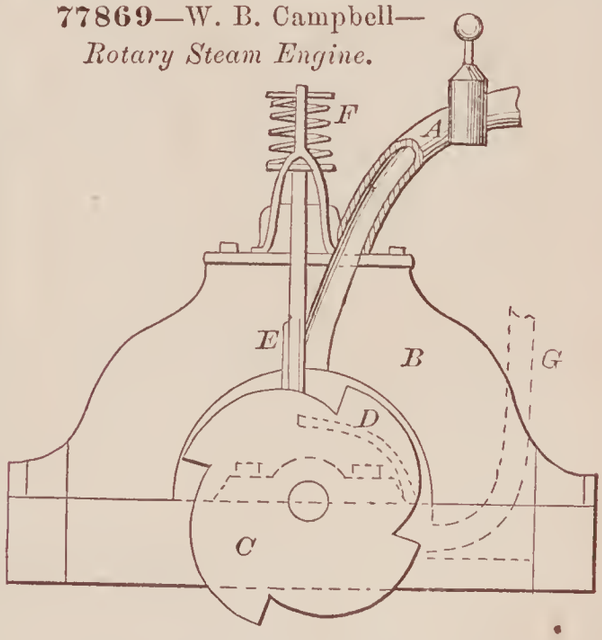
77867—I. Buckingham—*Car Ventilator.*



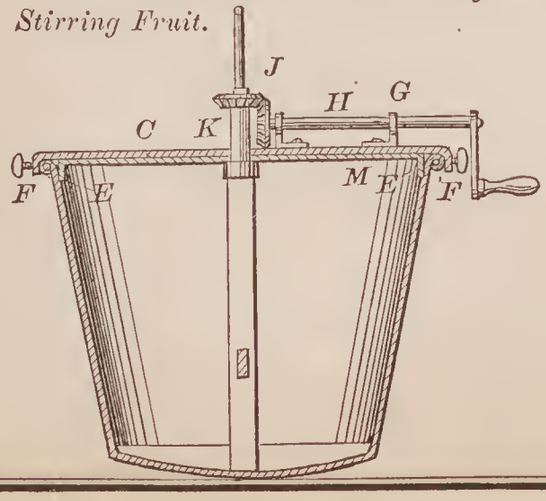
77866—H D. Brown—*Sheep Shearing Chair.*



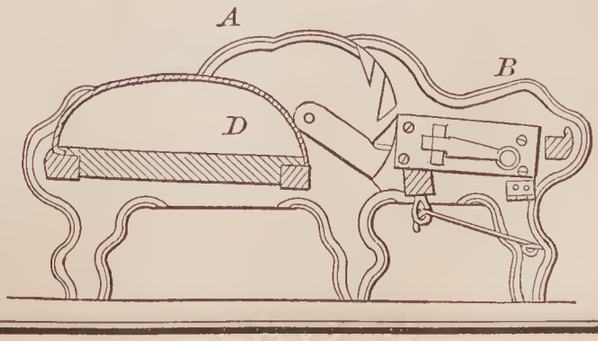
77869—W. B. Campbell—*Rotary Steam Engine.*



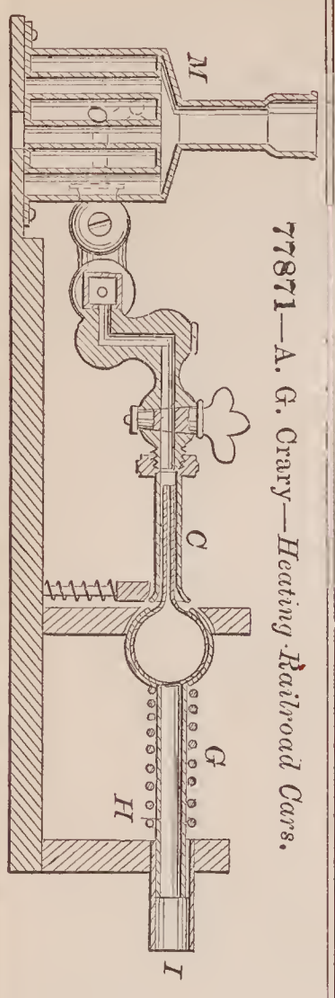
77870—M. G. Collins—*For Boiling and Stirring Fruit.*



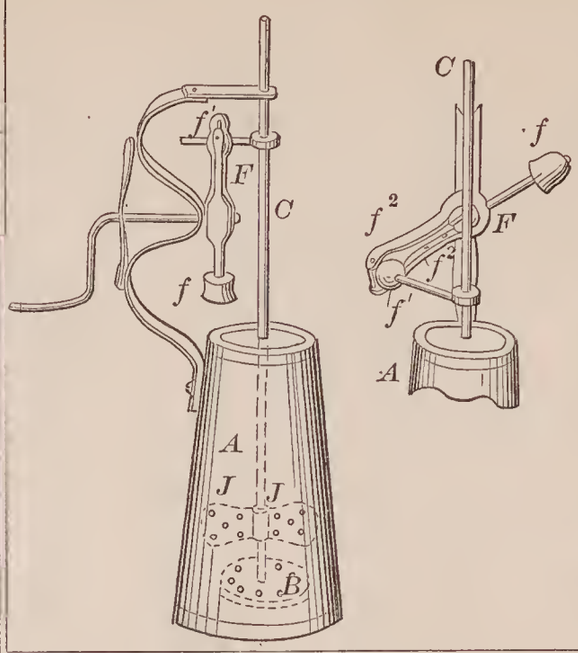
77872—E. Deetz—*Adjustable Sofa.*



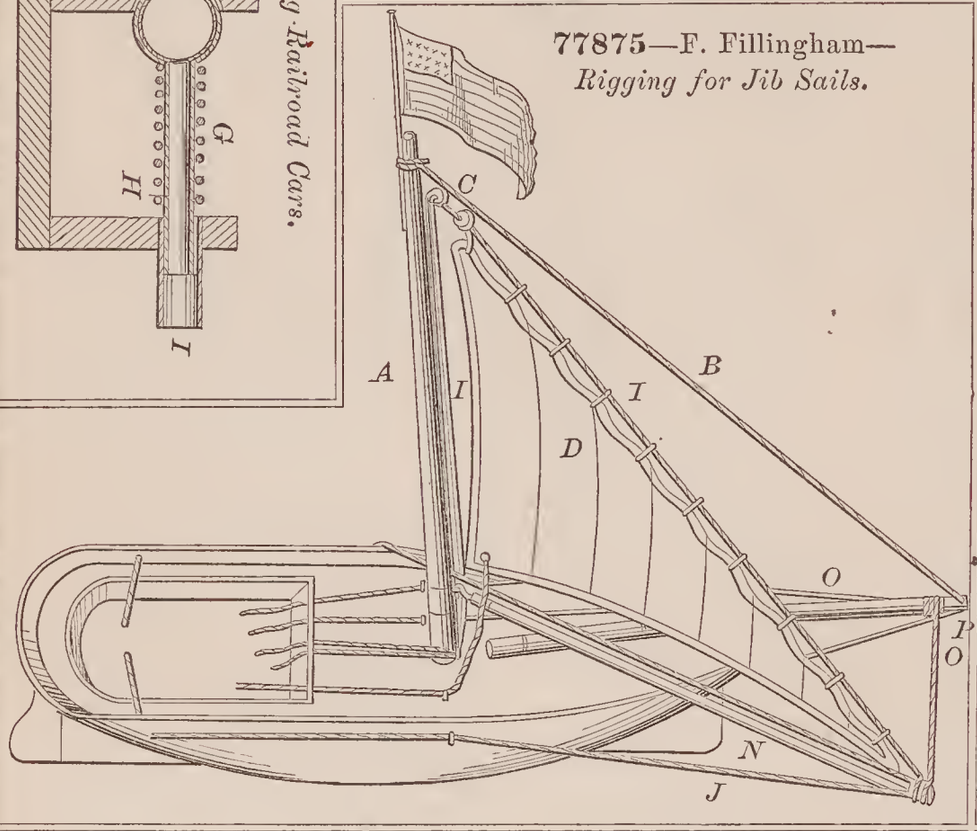
77871—A. G. Crary—*Heating Railroad Cars.*



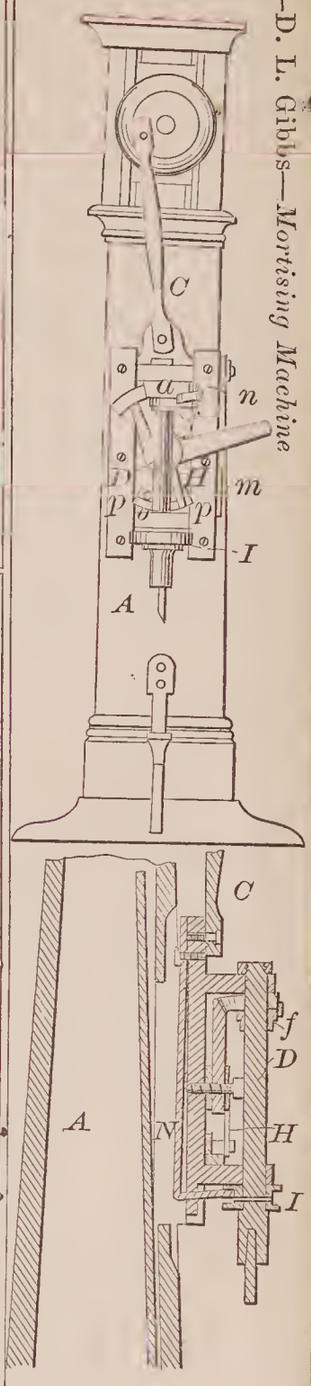
77873—W. C. Douthett—*Churn.*



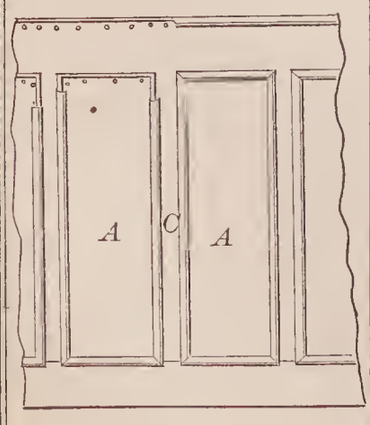
77875—F. Fillingham—*Rigging for Jib Sails.*



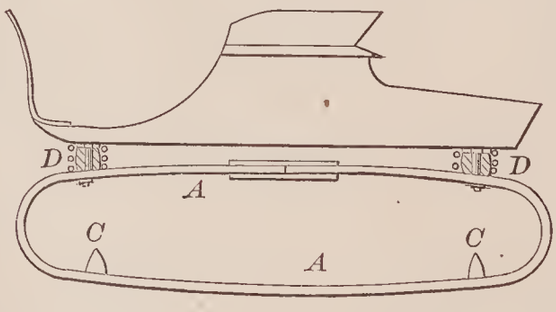
77877—D. L. Gibbs—*Mortising Machine*



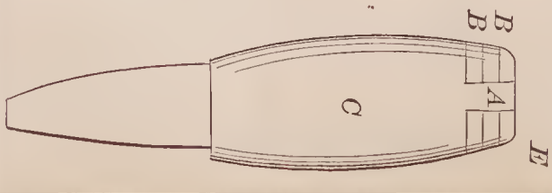
77876—J. C. Finn—*Decorating Walls.*



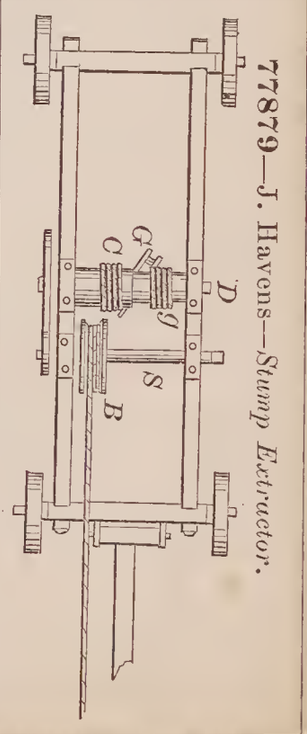
77880—W. B. Higgins—*Carriage Spring.*



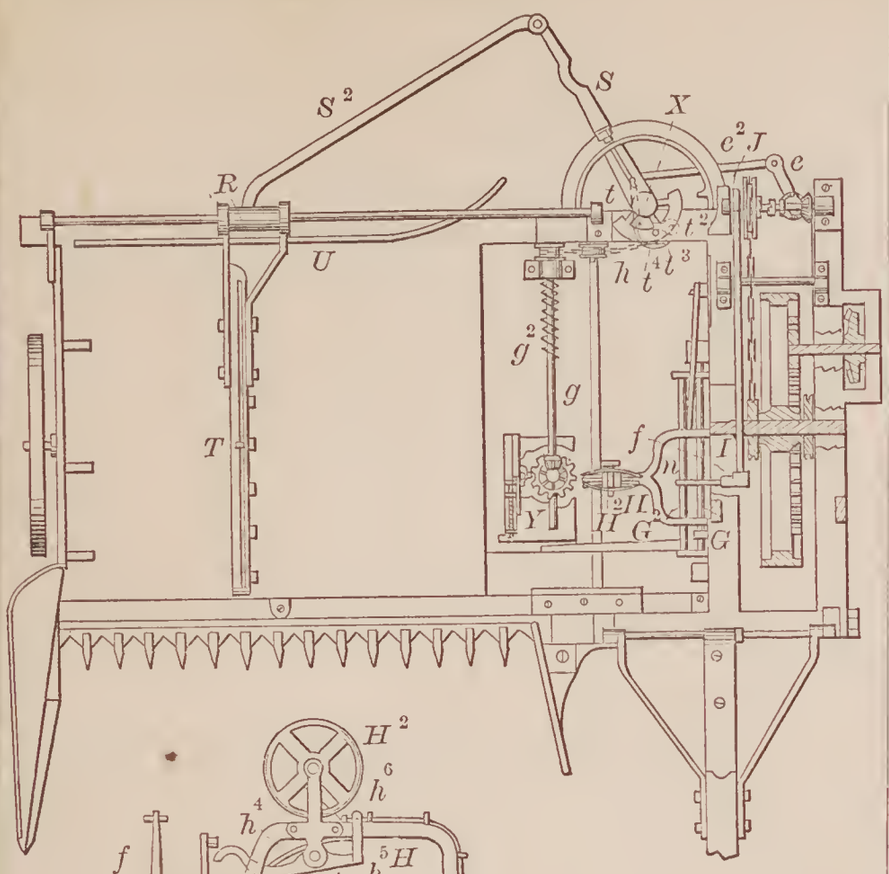
77881—Hilton, Webster & Wheeler—*Chisel Handle.*

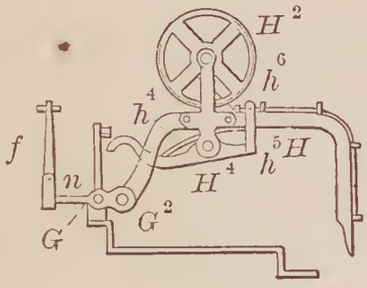


77879—J. Havens—*Stump Extractor.*

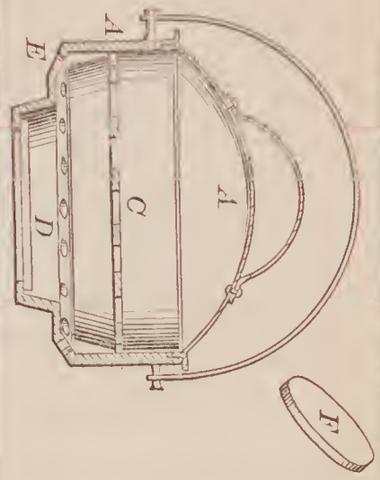


77878—J. F. Gordon—*Grain Binder.*

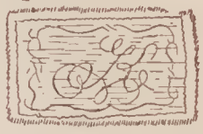




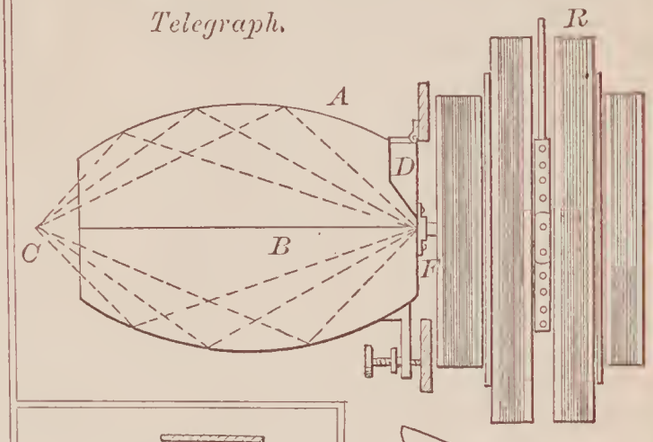
77884—G. B Isham—*Culinary Apparatus.*

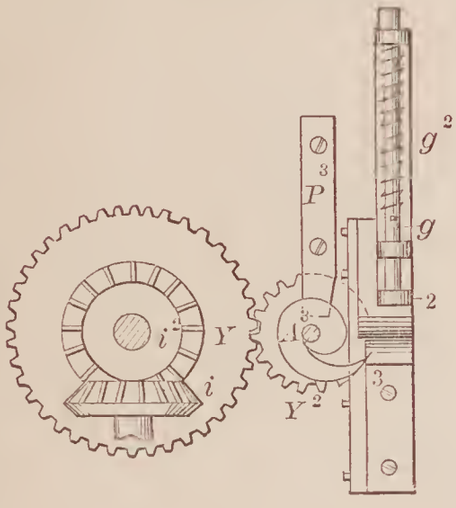


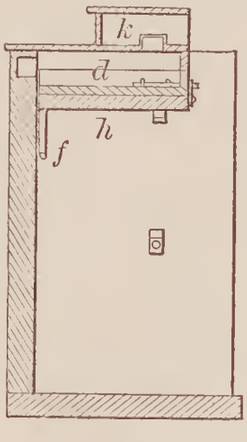
77887—M K. Kellogg—*Postage and Revenue Stamp.*

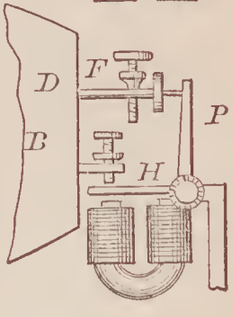


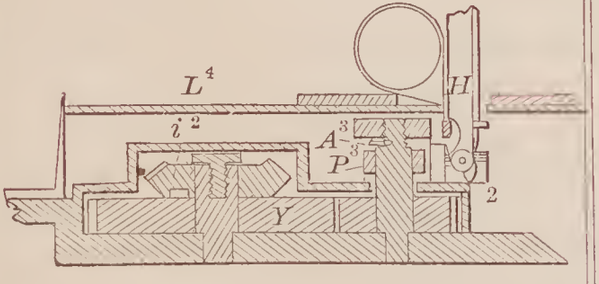
77882—R. E. House—*Electro-Phonetic Telegraph.*



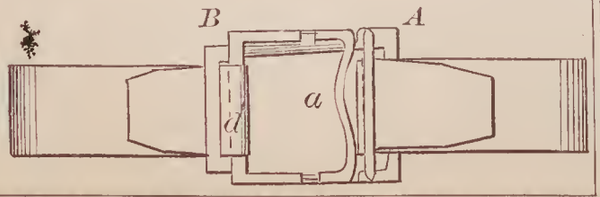


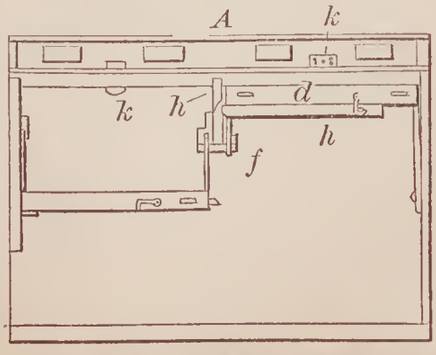






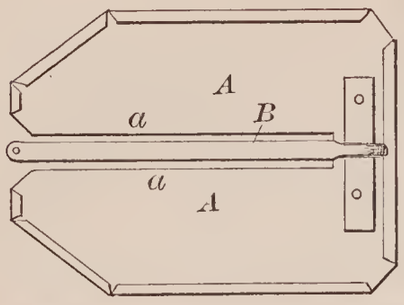
77885—J. H. James—*Buckle.*



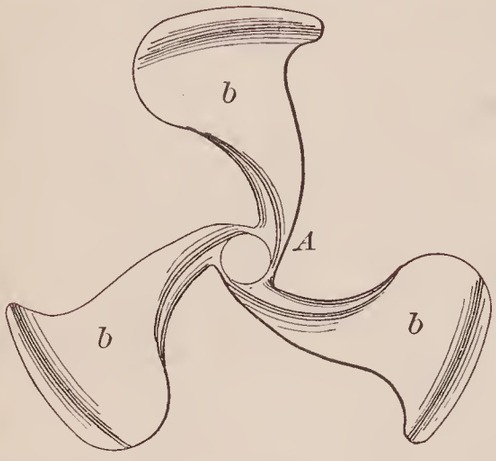


77883—G. W. Hunt—*Sleeping Car.*

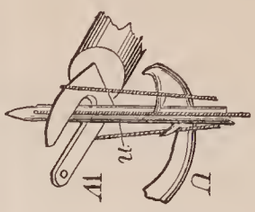
77886—W. J. Keep—*Shield for Smoothing Irons.*



77888—J. E. Kennedy—*Propeller.*



77889—O. C. Kerr—*Sewing Machine.*



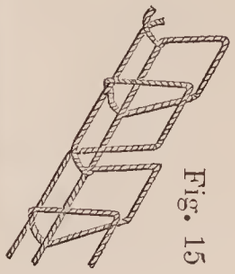
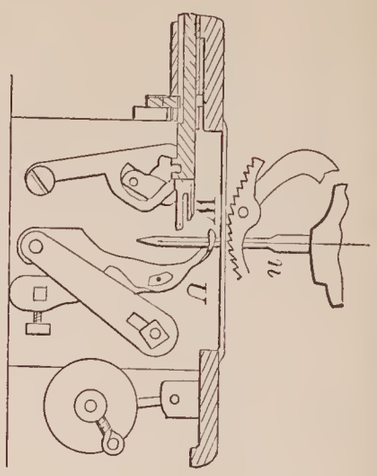
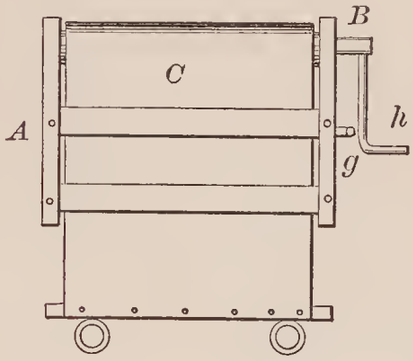


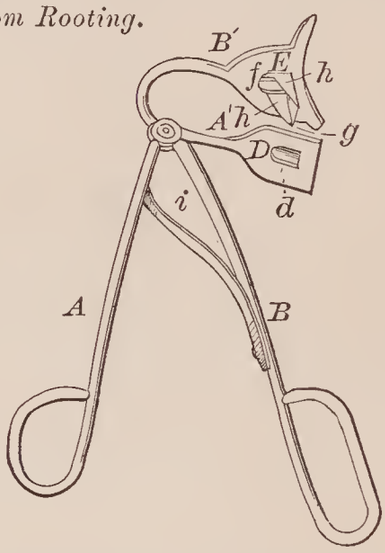
Fig. 15



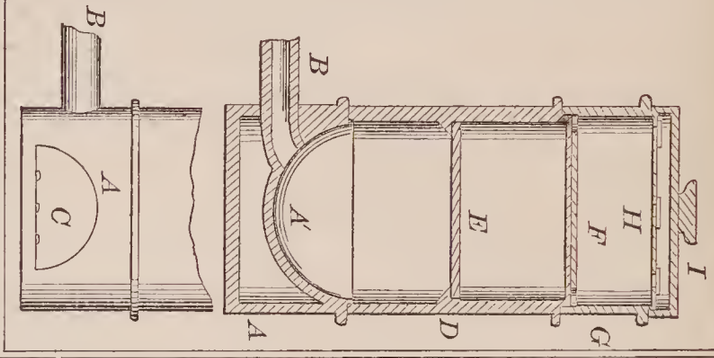
77890—I. Kinman—*Curtain Fixture.*



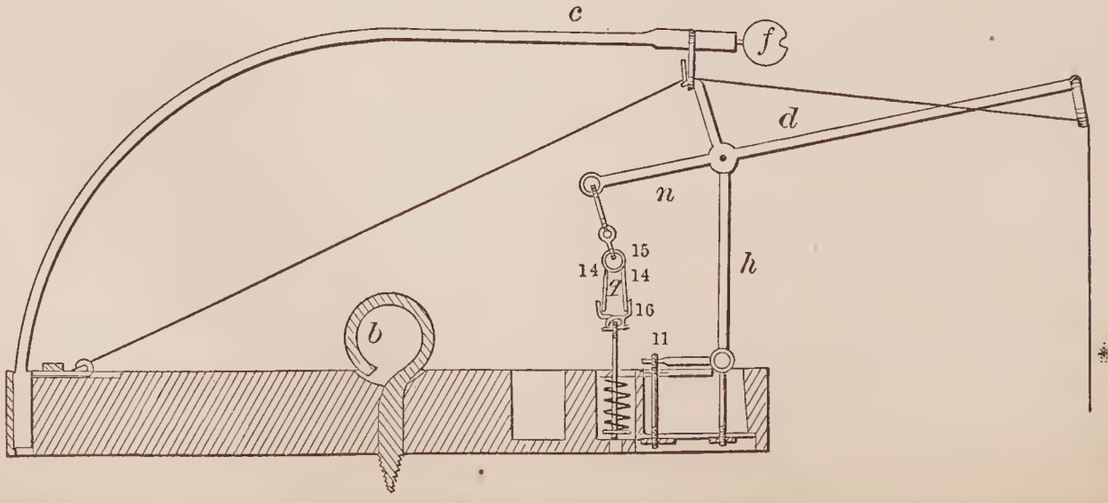
77891—J. D. Kirkpatrick—*Preventing Hogs from Rooting.*



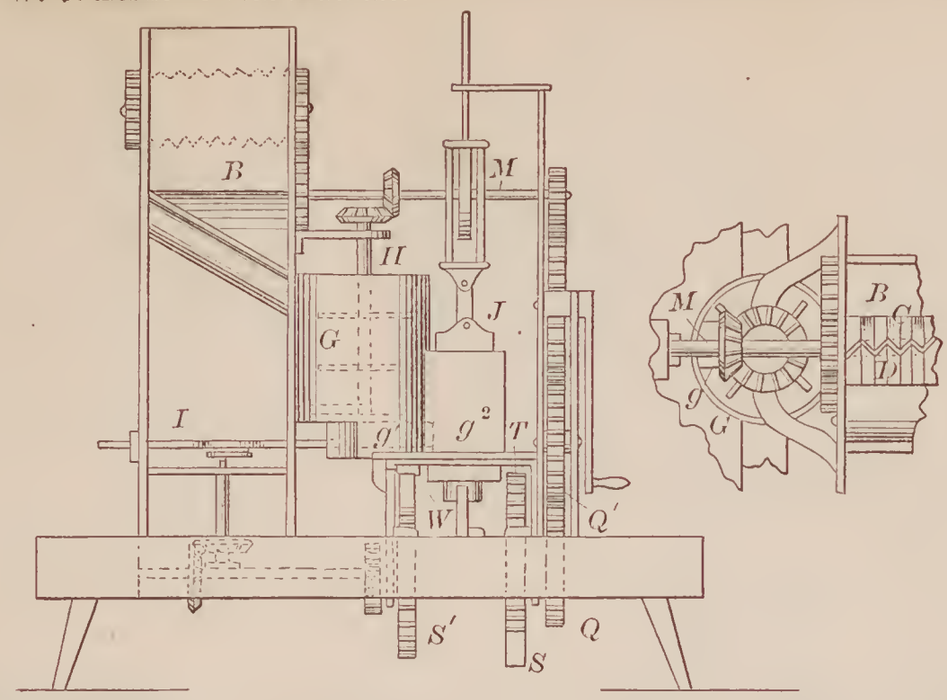
77892—E. I. Kline—*Beehive.*



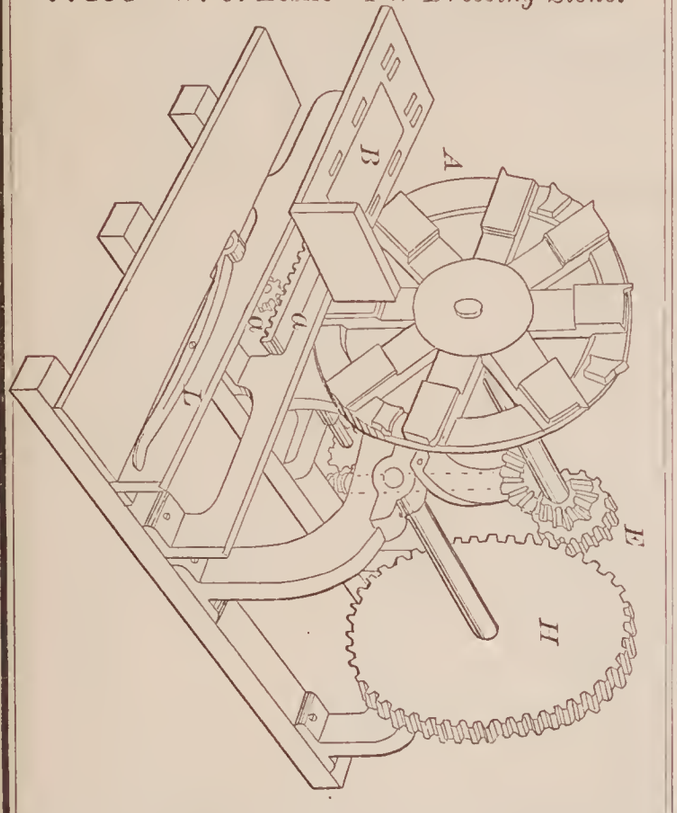
77893—J. Koehler—*Fishing Apparatus.*



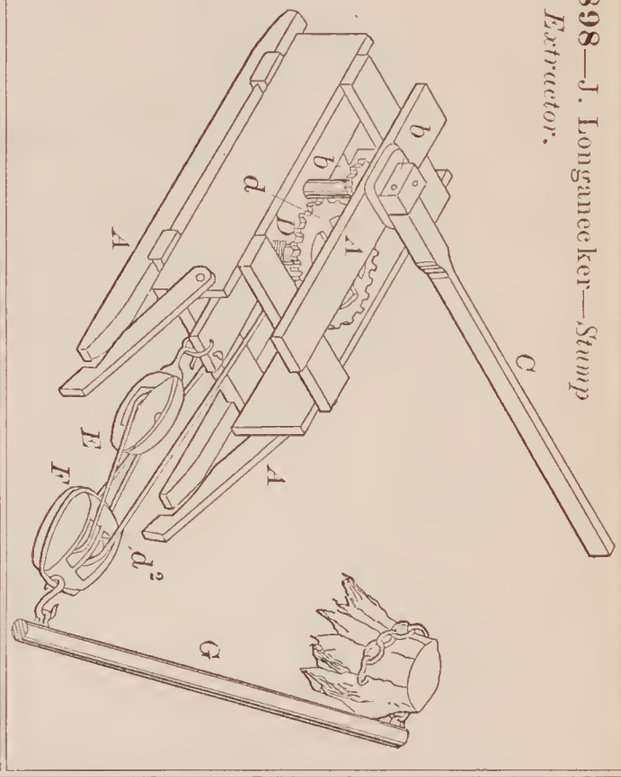
77894—W. O. Leslie—*Brick Machine.*



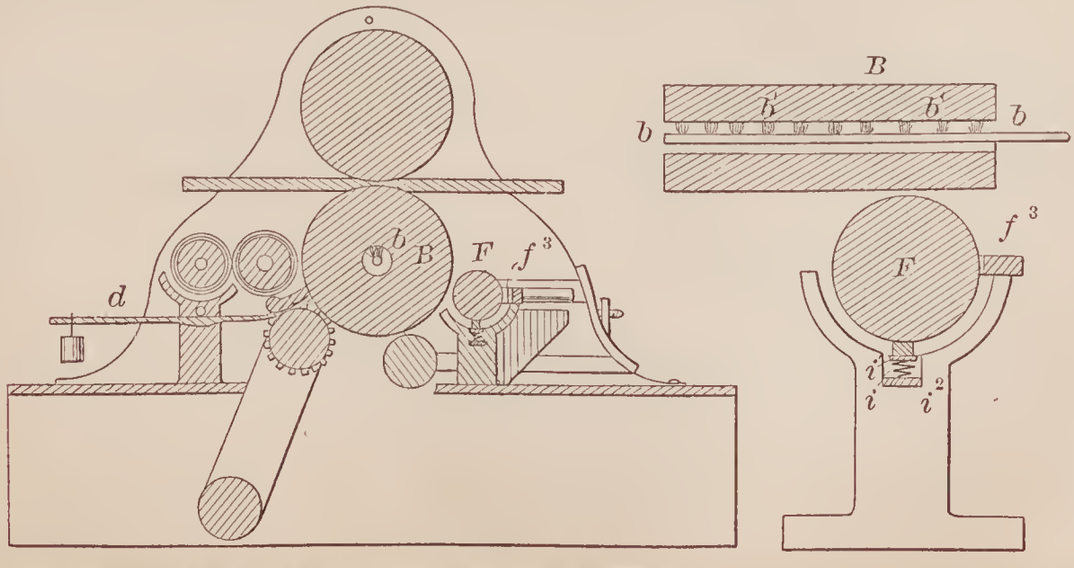
77895—W. O. Leslie—*For Dressing Stone.*



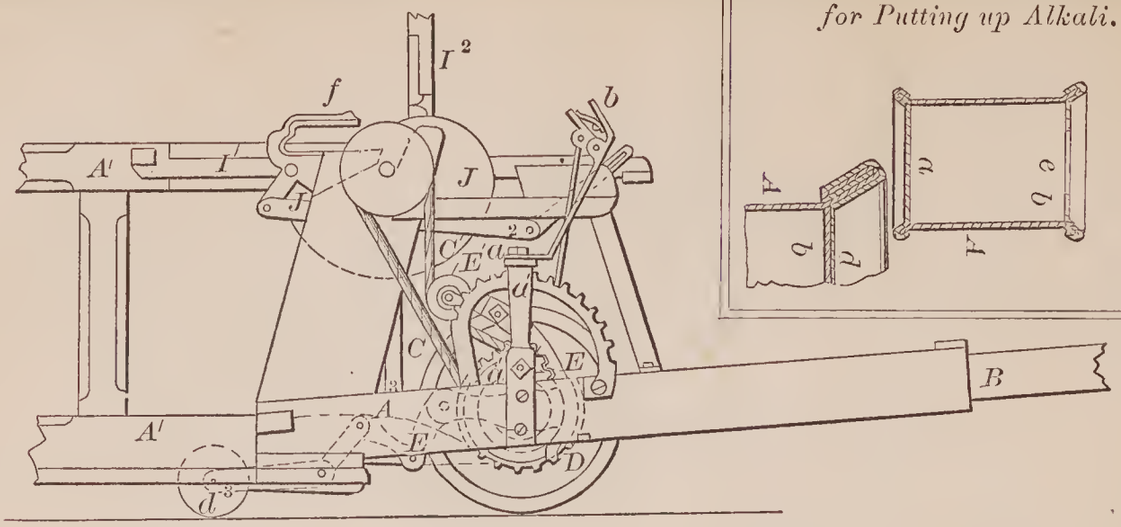
77898—J. Longanecker—*Stump Extractor.*



77896—Lewis & Stuart—*Cylindrical Plate Printing Machine.*

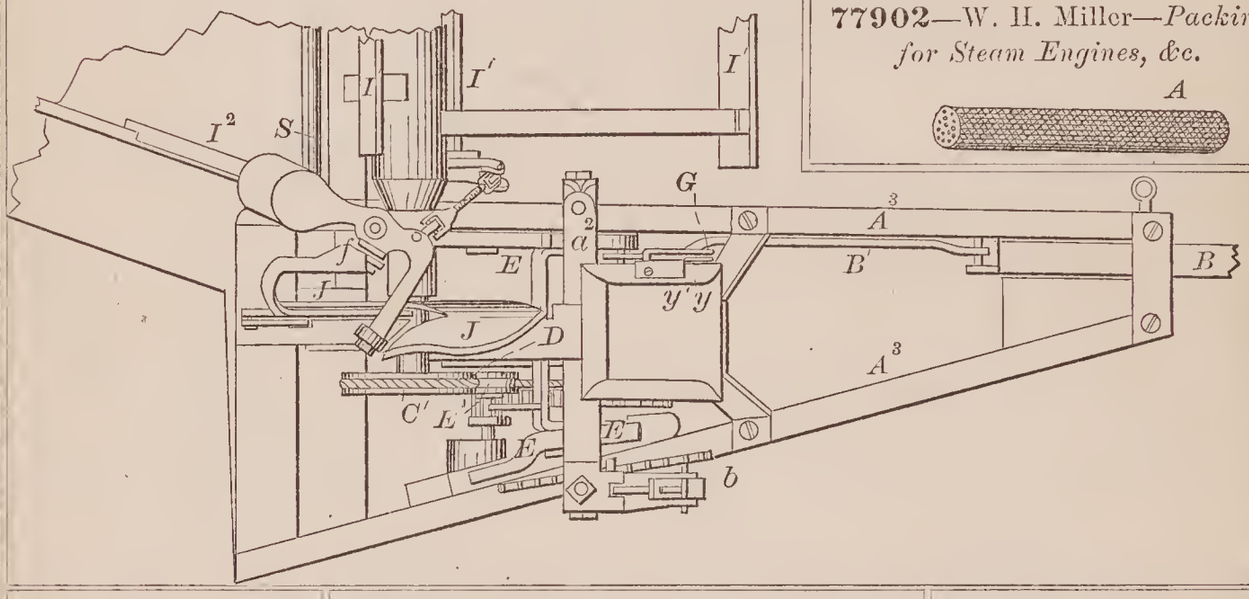


77897—E. I. Leyburn—*Harvester.*

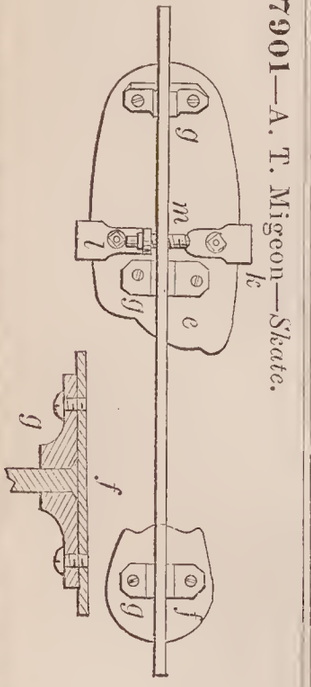


77899—J. McCoy—*Metal Case for Putting up Alkali.*

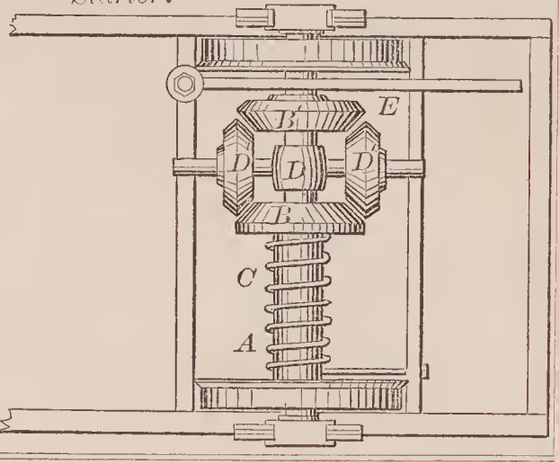
77902—W. H. Miller—*Packing for Steam Engines, &c.*



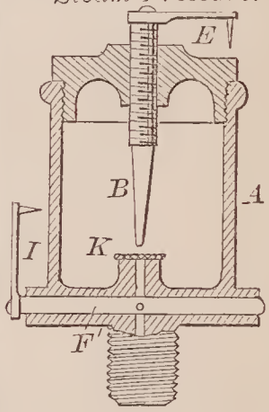
77901—A. T. Migeon—*Skate.*



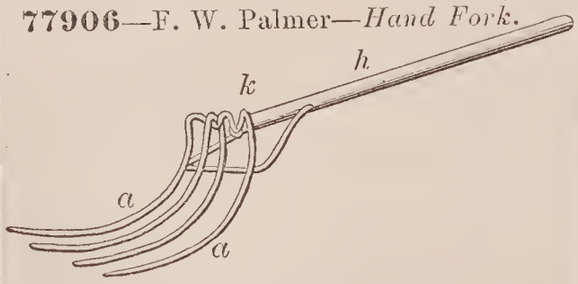
77903—C. D. Moody—*Car Brake and Starter.*



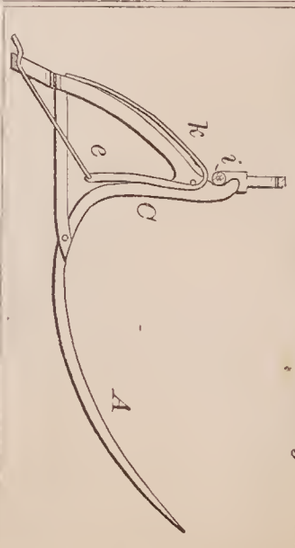
77900—McCullon & Woodcock—*Oil Cup for Steam Pressure.*



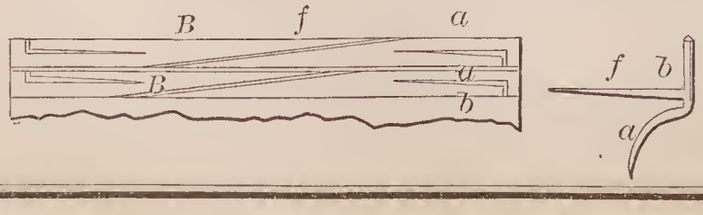
77906—F. W. Palmer—*Hand Fork.*



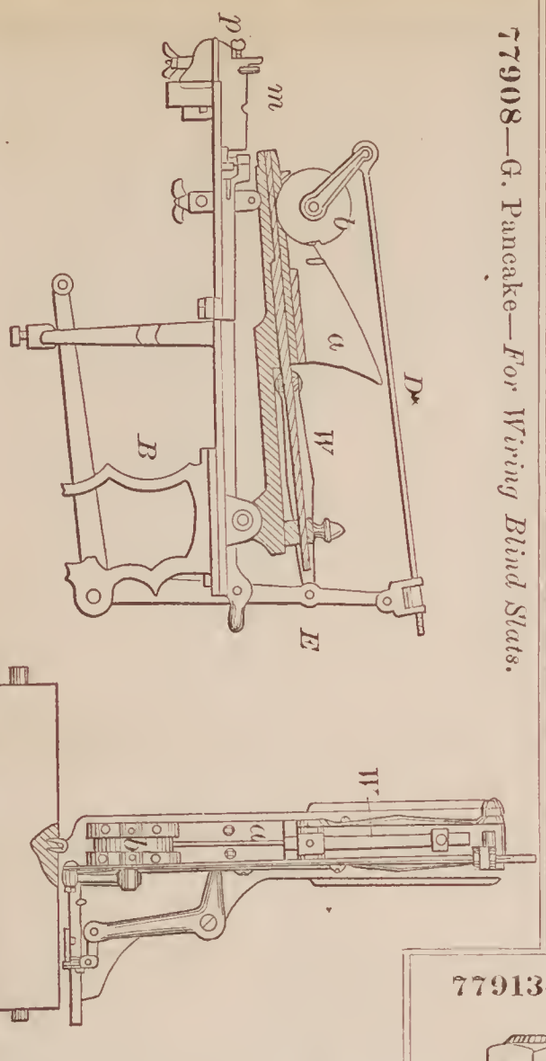
77907—N. Palmer—*Horse Hay Fork.*



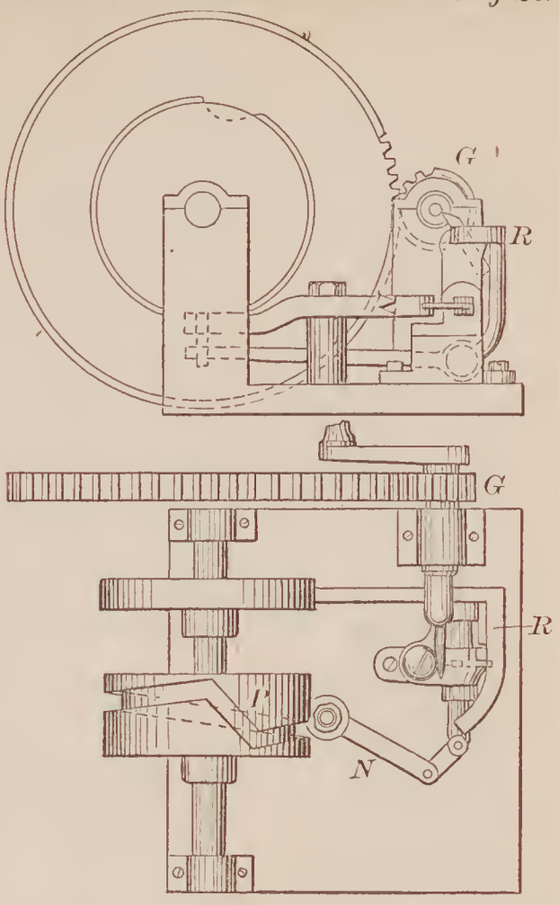
77905—G. Orr—*Cutting and Forming Blind Hook Blanks.*



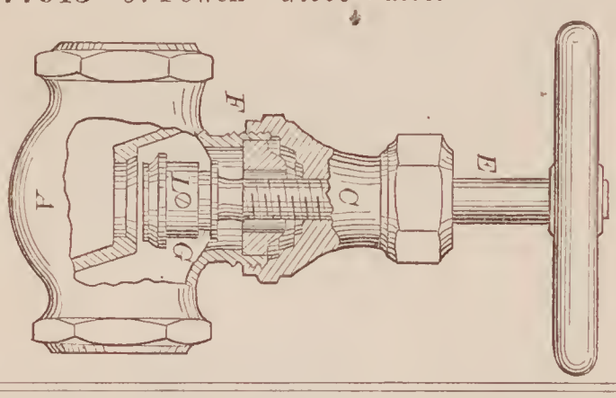
77908—G. Pancake—*For Wiring Blind Slats.*



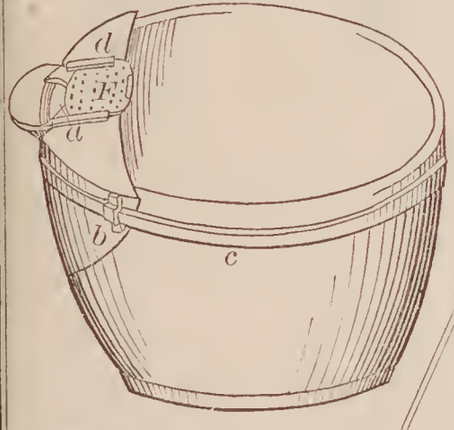
77910—W. F. Parker—*For Threading Screws.*



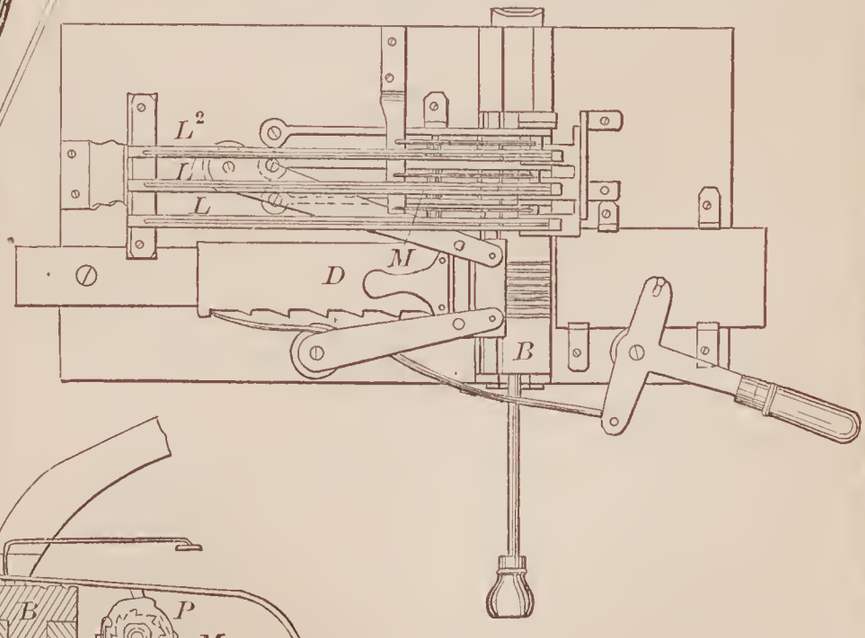
77913—J. Powell—*Globe Valve.*



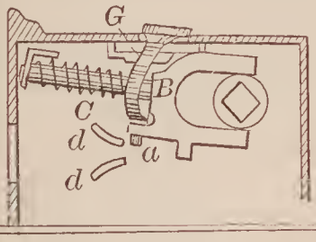
77914—G. Raymond—*Detachable Nose for Bowls.*

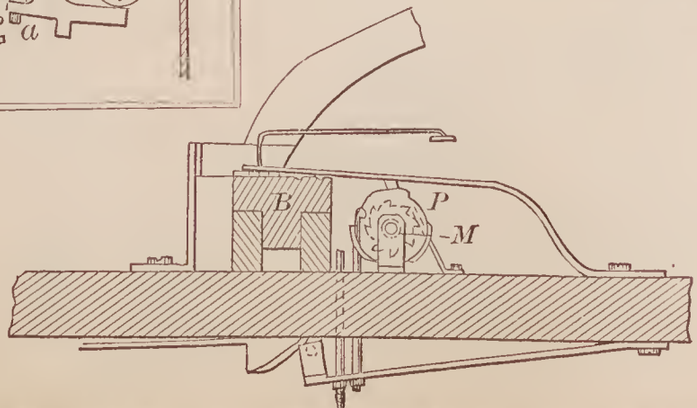


77912—Piper & Bradley—*For Sticking Pins.*

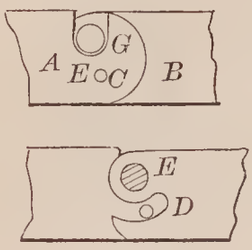


77909—J. E. Parker—*Reversible Knob Latch.*

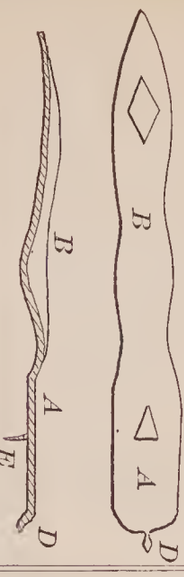




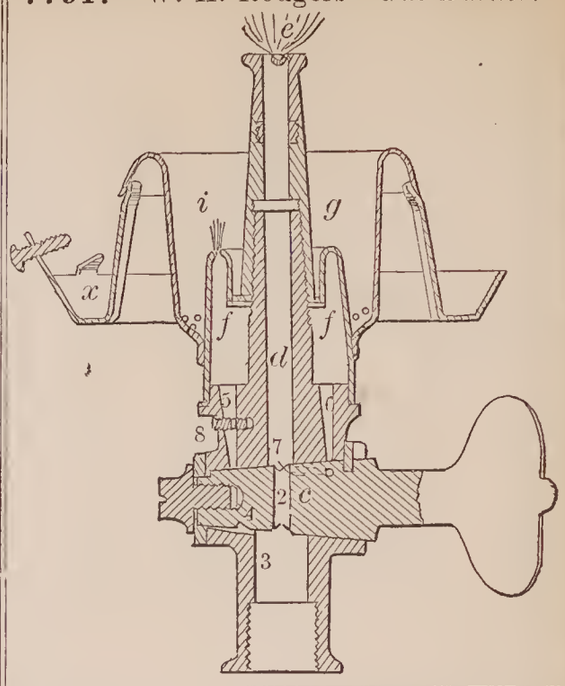
77915—J. F. Reiner—*Shackle Joint.*



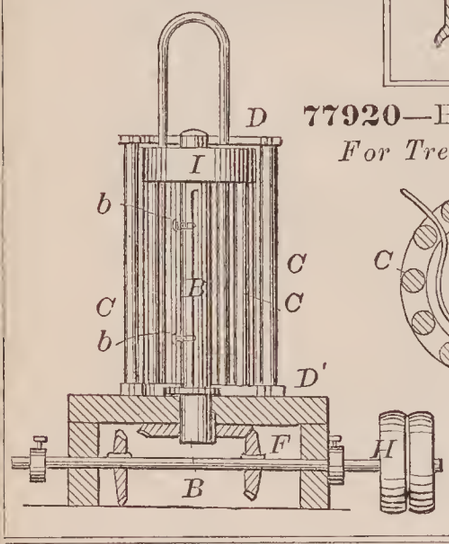
77916—C. F. Ritchel—*Can Opener.*

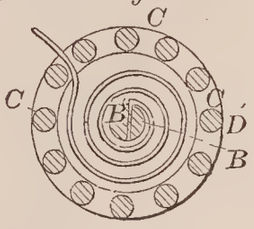


77917—W. H. Rodgers—*Gas Burner.*

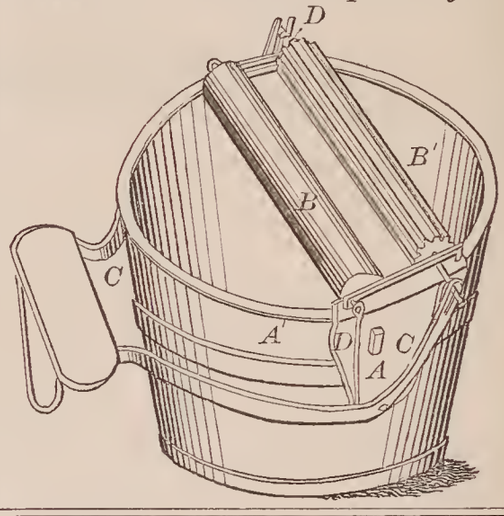


77920—H & L. Royer—*For Treating Hides*

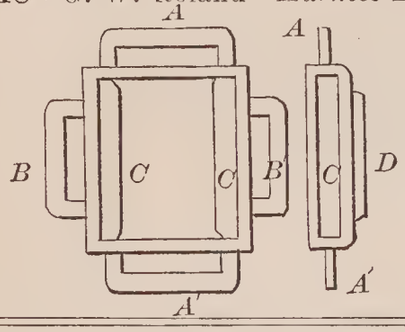




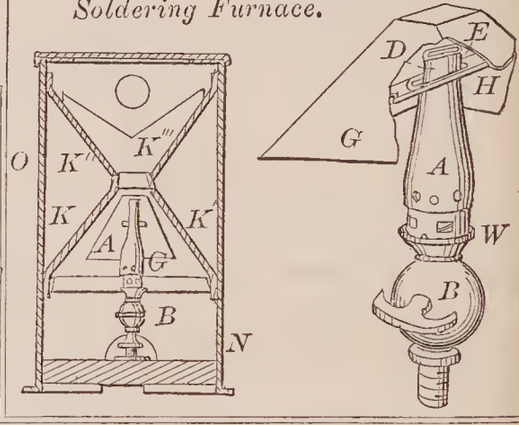
77919—H. B. Rorke—*Mop Wringer.*



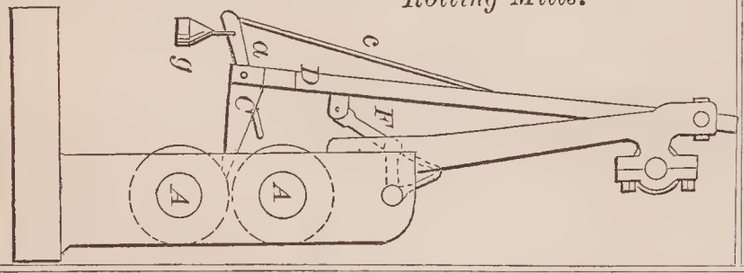
77918—G. W. Roland—*Harness Loop.*



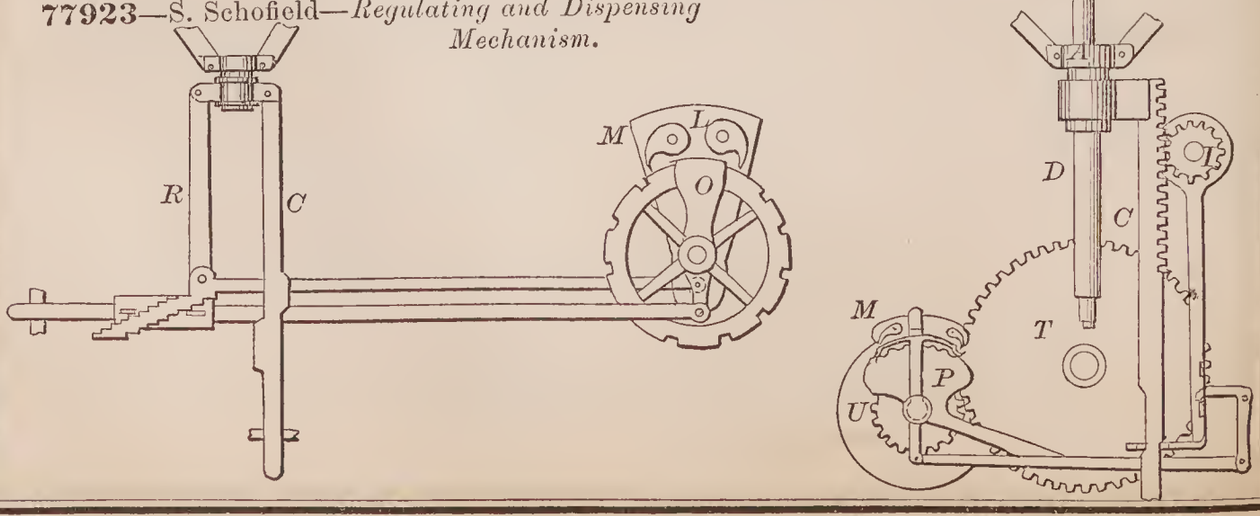
77921—G. O. Sanderson—*Soldering Furnace.*



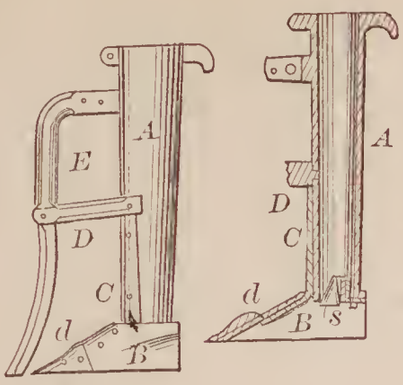
77922—E. Sanford—*For Handling Iron in Rolling Mills.*



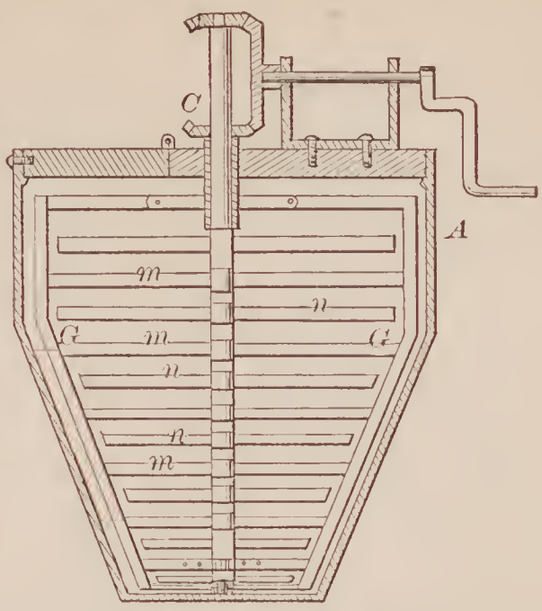
77923—S. Schofield—*Regulating and Dispensing Mechanism.*



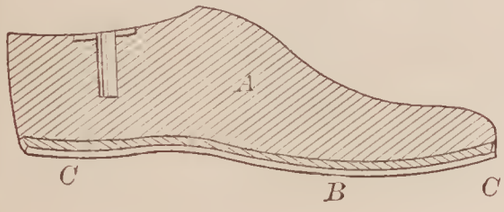
77924—J. H. Shreiner—*Grain Drill.*



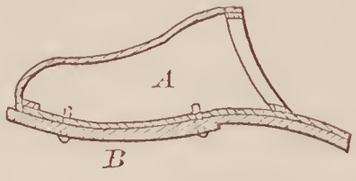
77926—J. C. Slaughter—*Churn.*



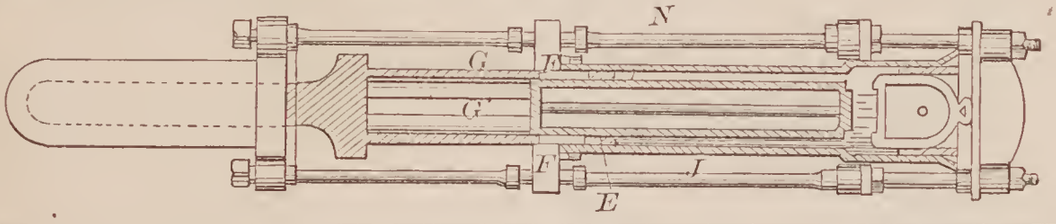
77931—J. H. Swain—*Last.*



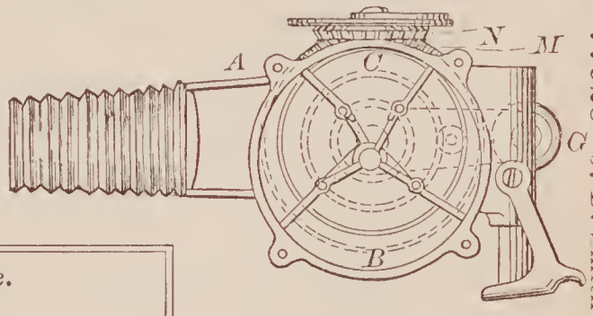
77927—A. G. Smith—*Foxing and Soling Boots.*



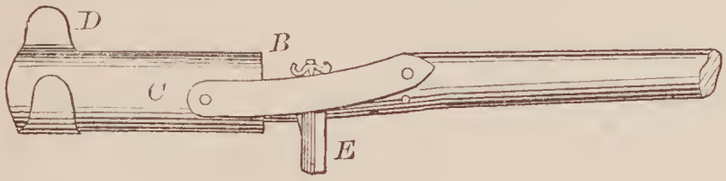
77925—R. Skinner—*For Making Drain Pipe.*



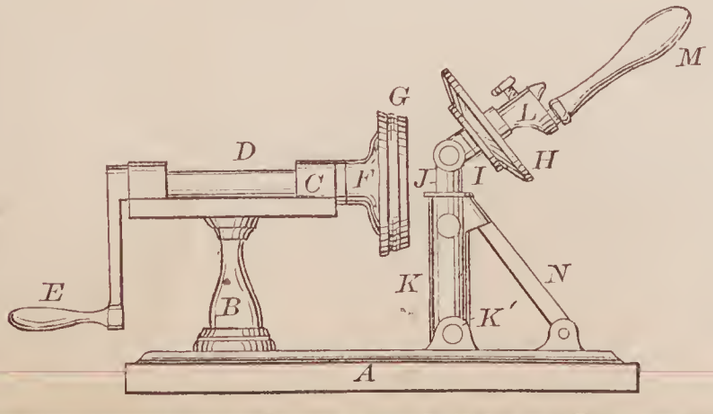
77928—J. D. Smith—*Measuring Faucet.*

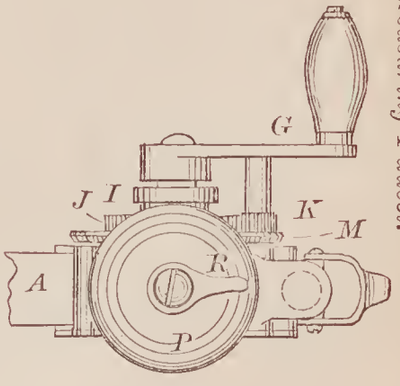


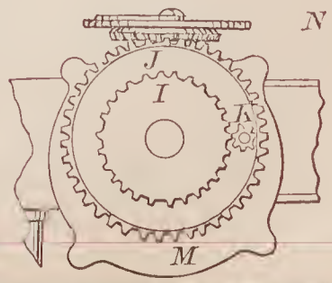
77930—G. H. Stevenson—*Ditching Machine.*



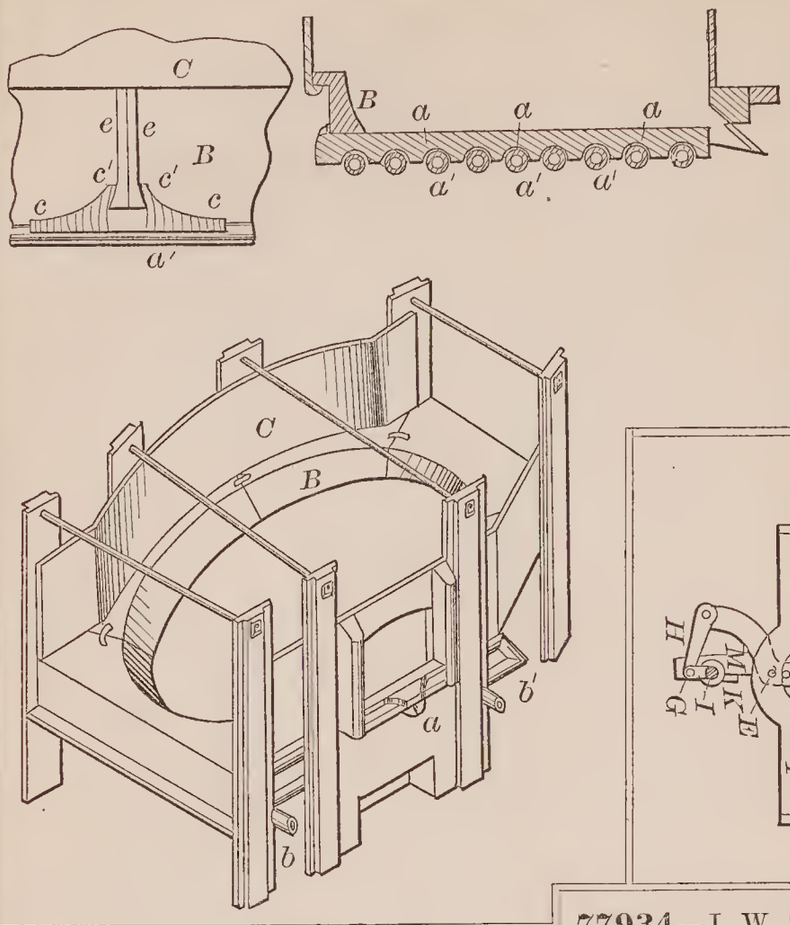
77929—C. F. Spaulding—*Double Seamer for Tin Work.*



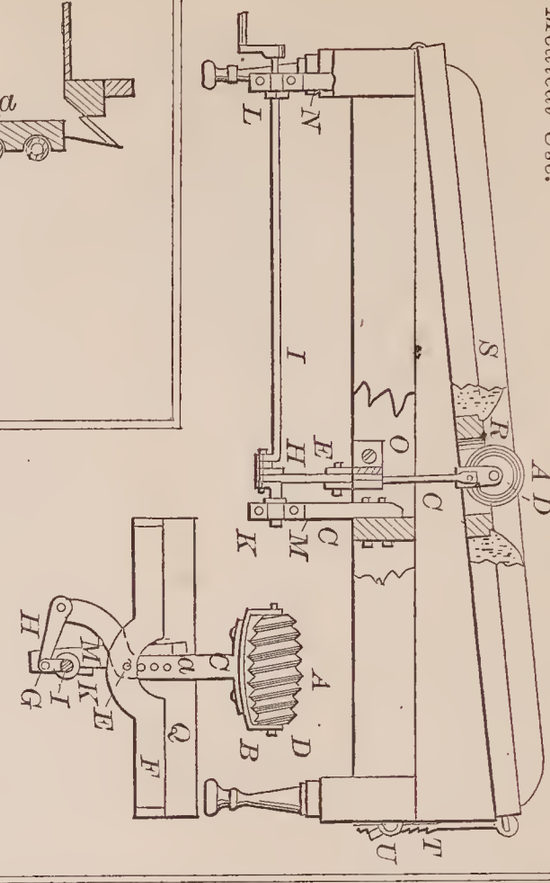




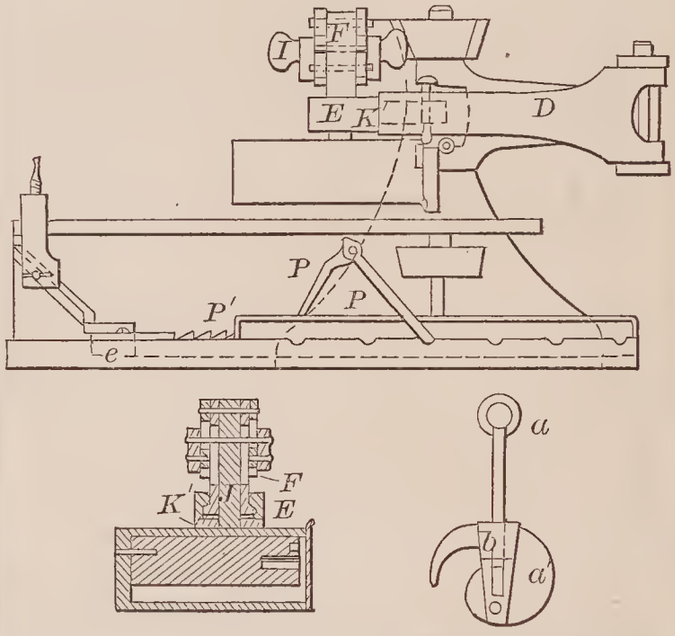
77932—W. Swindell—*Puddling and Boiling Furnace.*



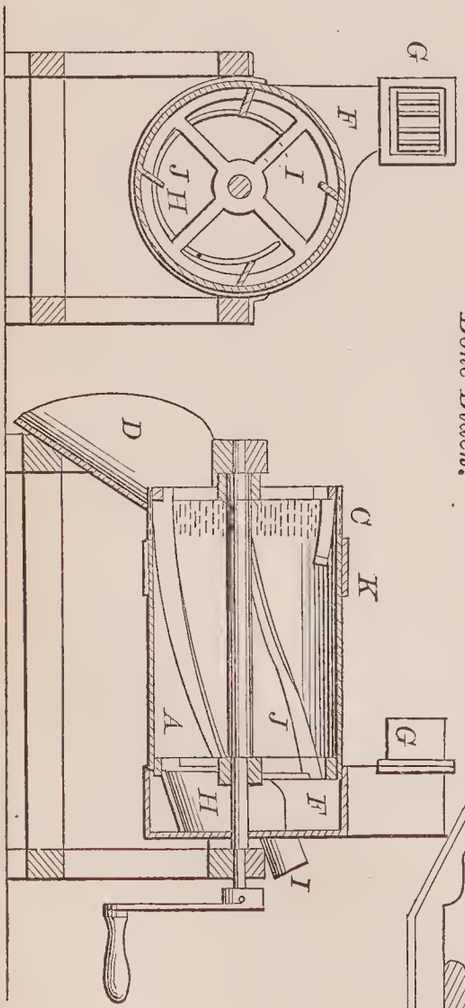
77933—G. H. Taylor—*Oscillating Rubbing Machine for Medical Use.*



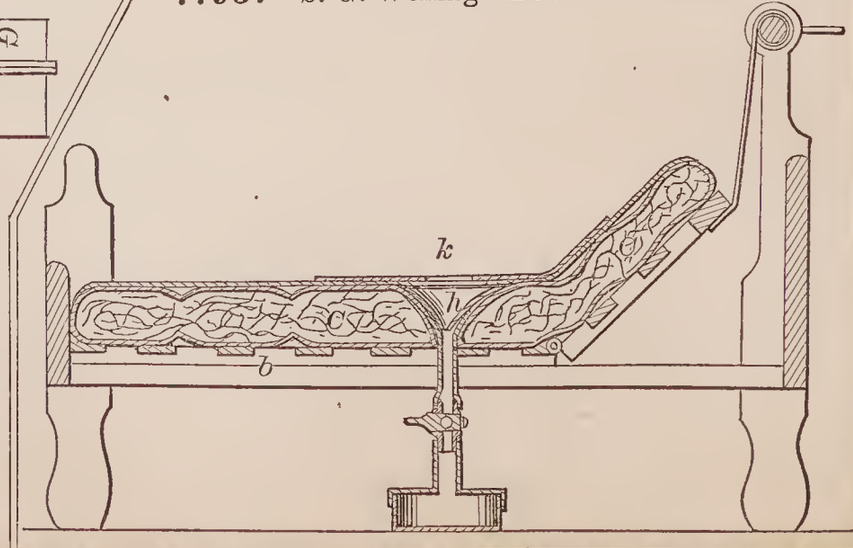
77934—J. W. Thorp—*Tailors' Pressing Machine.*



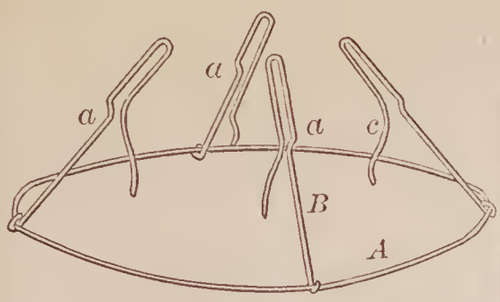
77935—D. H. Turner—*For Cooling and Purifying Bone Black.*



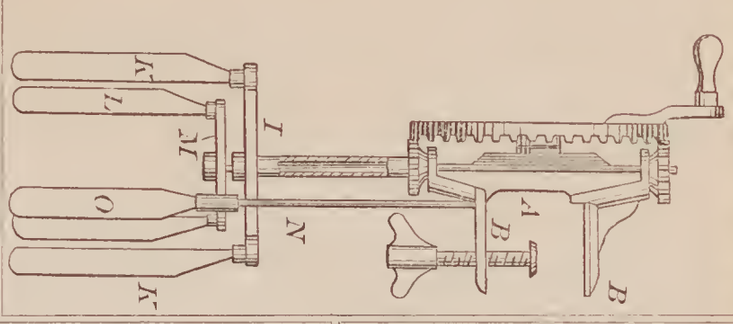
77937—S. G. Welling—*Bed Pan Attachment.*



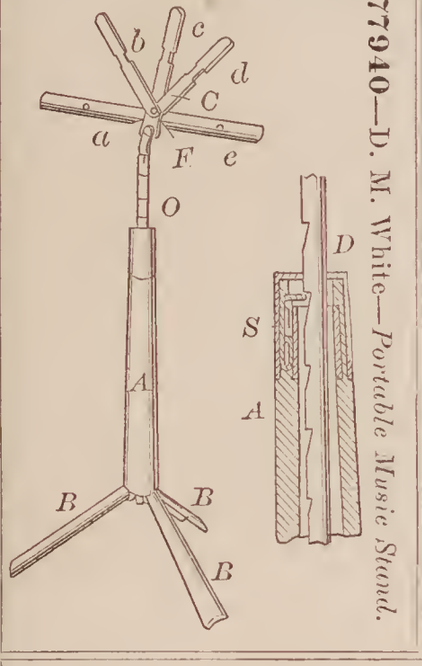
77936—G. Wedekind—*Lamp Shade.*



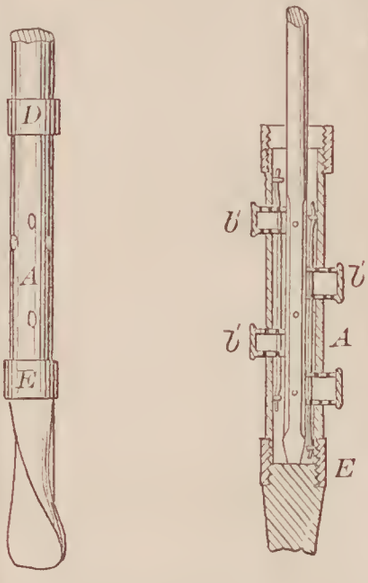
77939—E. B. West—*Churn Dasher.*



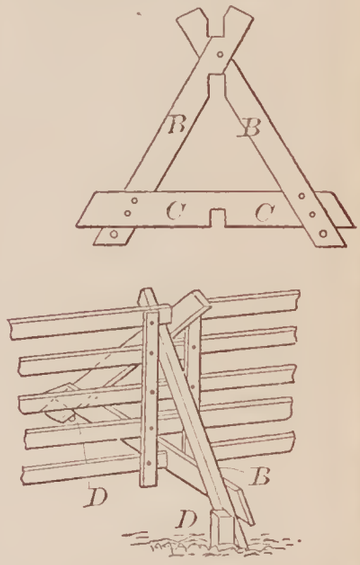
77940—D. M. White—*Portable Music Stand.*



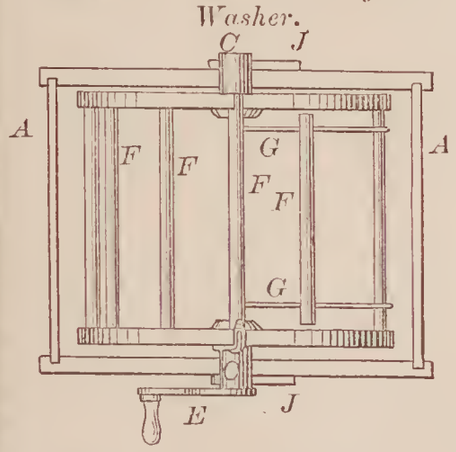
77941—W. H. White—*Tube Well.*



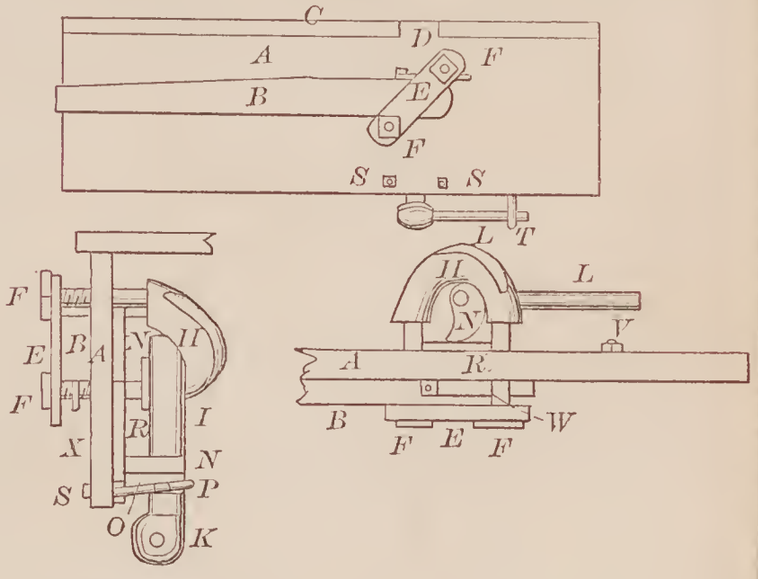
77942—T. B. Wickham—*Portable Fence.*



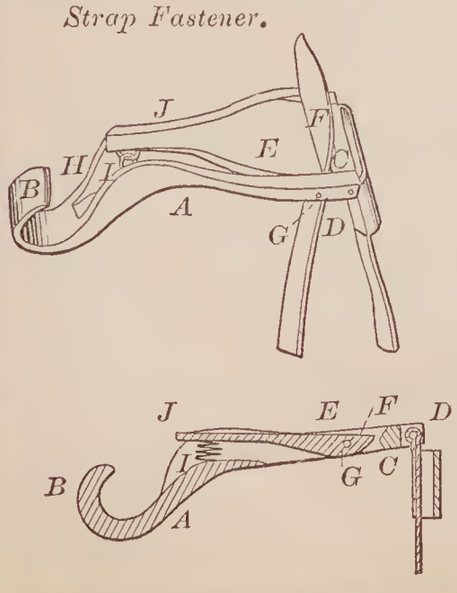
77944—G. H. Tift—*Vegetable Washer.*



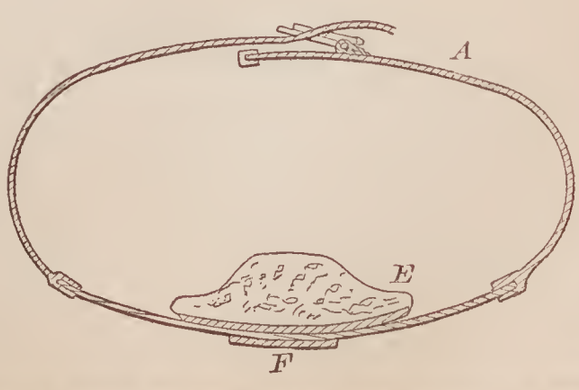
77943—W. J. Willits—*Platform Car Stake Holder.*



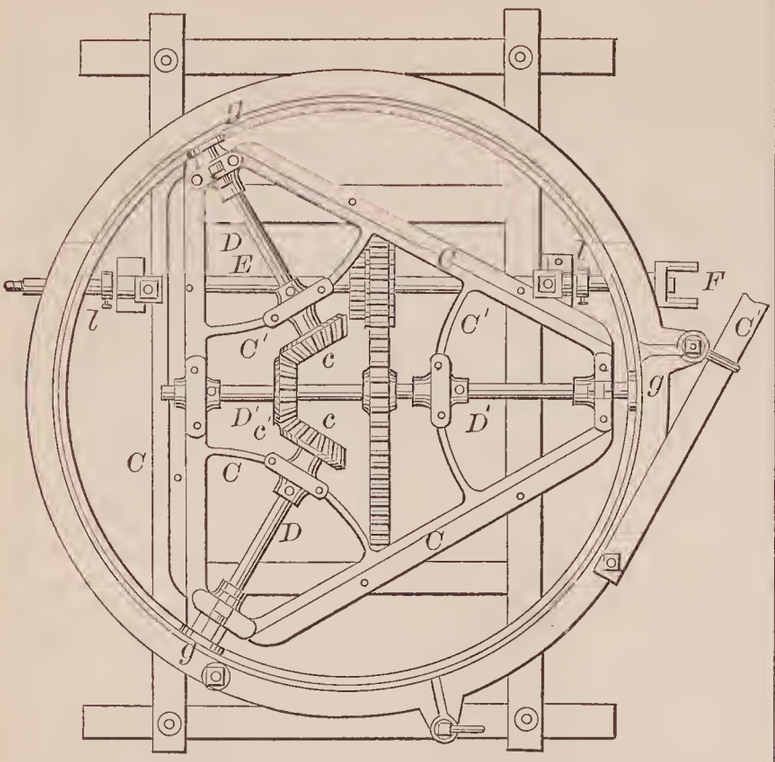
77946—J. B. Armstrong—*Strap Fastener.*



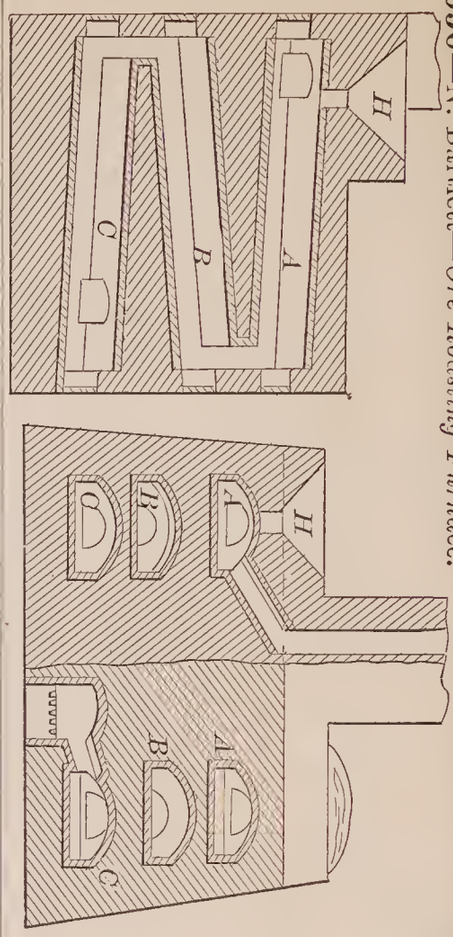
77947—S. Ayres—*Truss.*



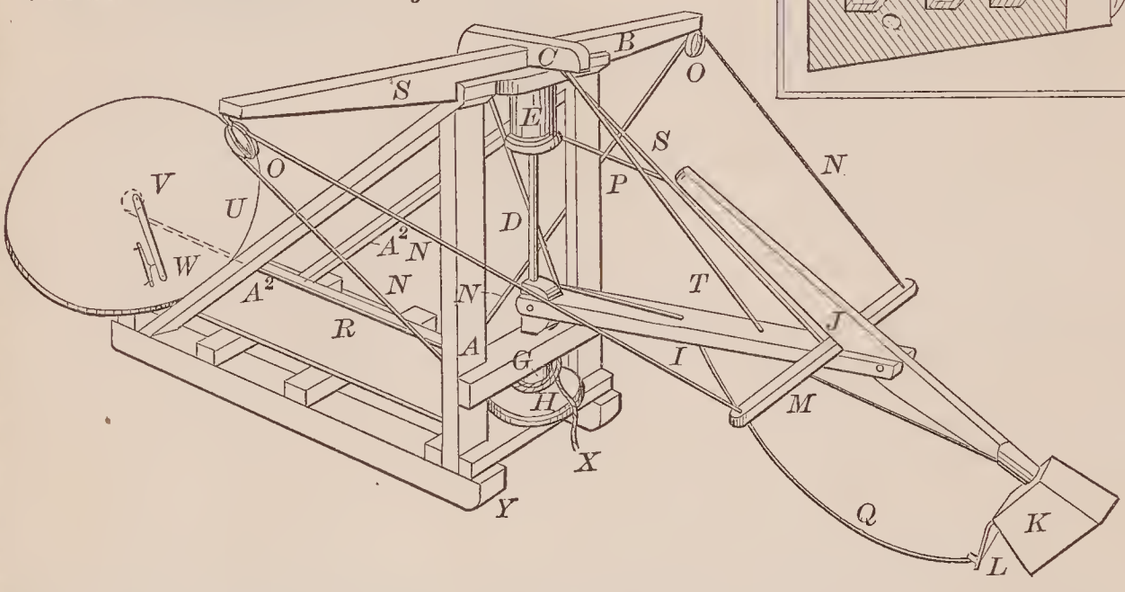
77945—Aldridge & Bedford—*Horse Power.*



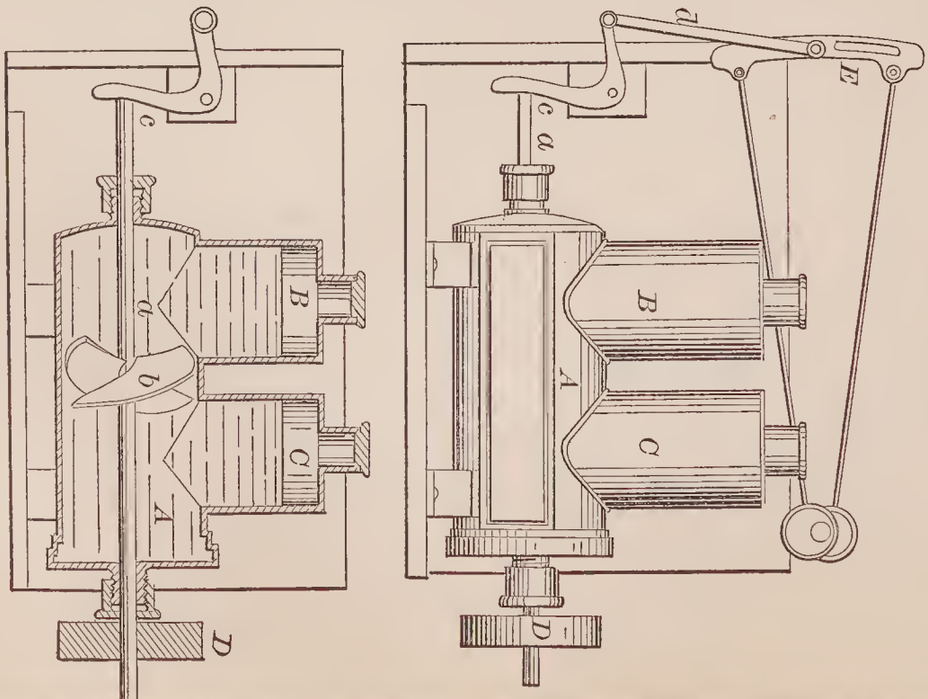
77950—N. Bartlett—*Ore Roasting Furnace.*



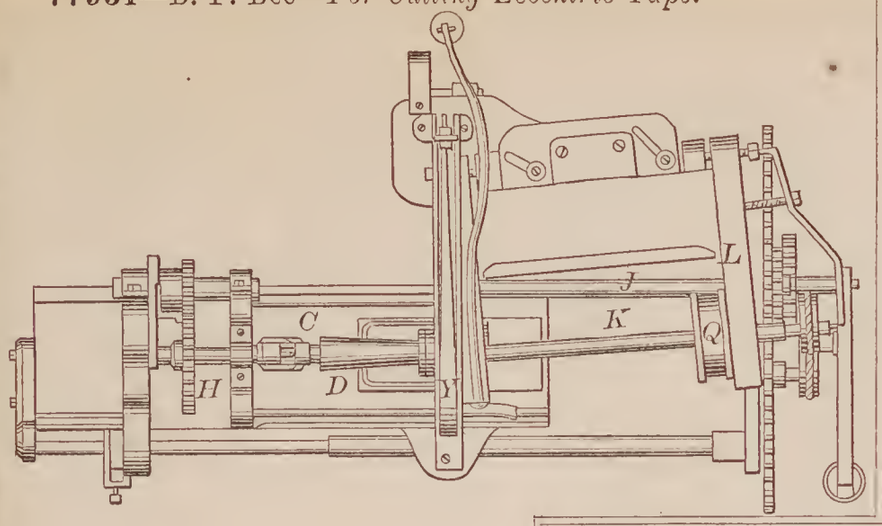
77949—E. Barnes—*Ditching Machine.*



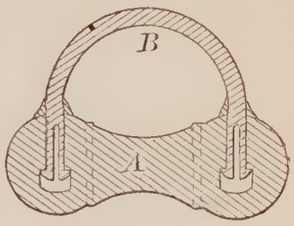
77948—C. H. Bacon—*Steam Engine Governor.*

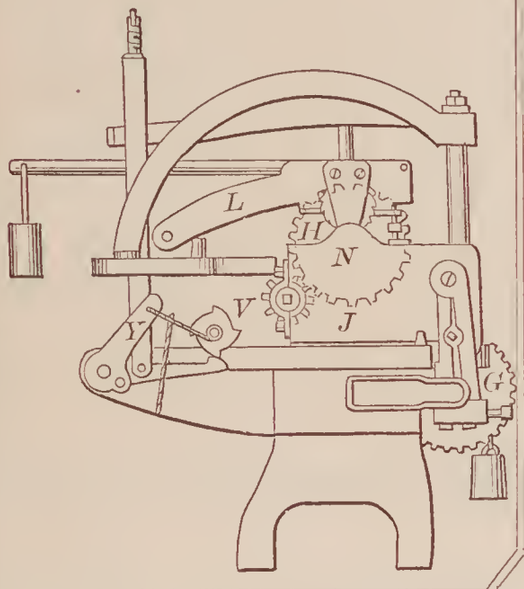


77951—B. F. Bee—*For Cutting Eccentric Taps.*

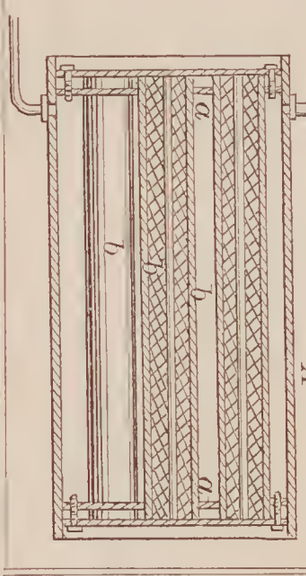


77953—S. Bickerstaff—*Hermetically Closed Padlock.*

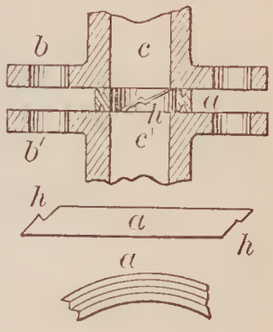




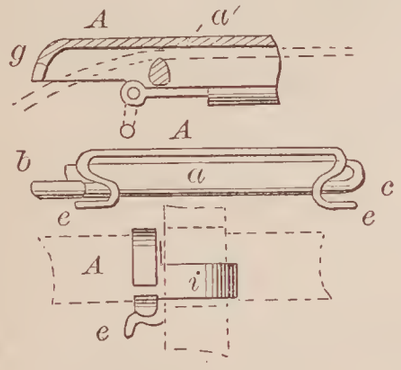
77952—H. W. Beins—*Vulcanizing India Rubber Car Spring.*



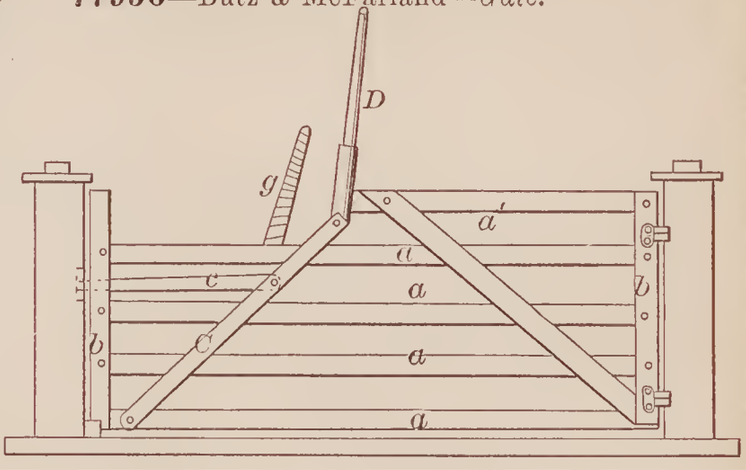
77954—H. Brocard—*Packing for Joints of Steam Water Pipes.*



77955—S. P. Burdick—*Buckle.*

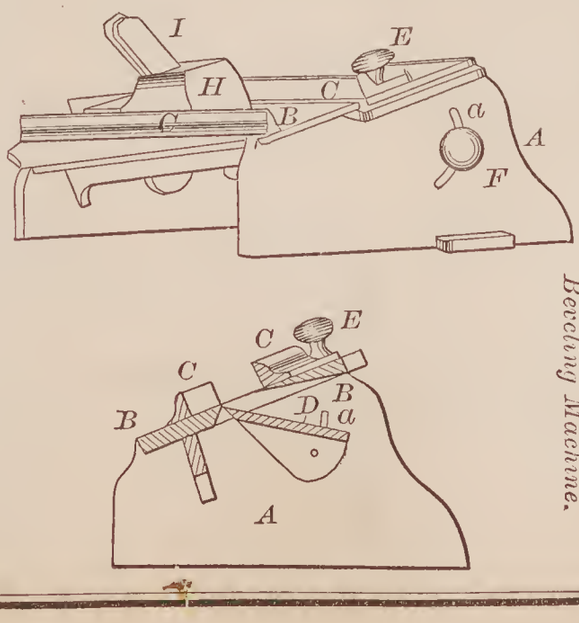


77956—Butz & McFarland—*Gate.*



77957—O. D. Chapman—*Tube Well.*

77958—W. P. Chase—*Bookbinders' Beveling Machine.*



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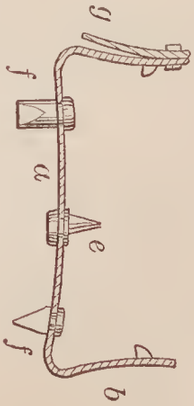
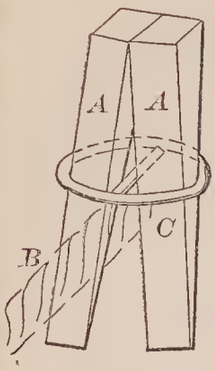
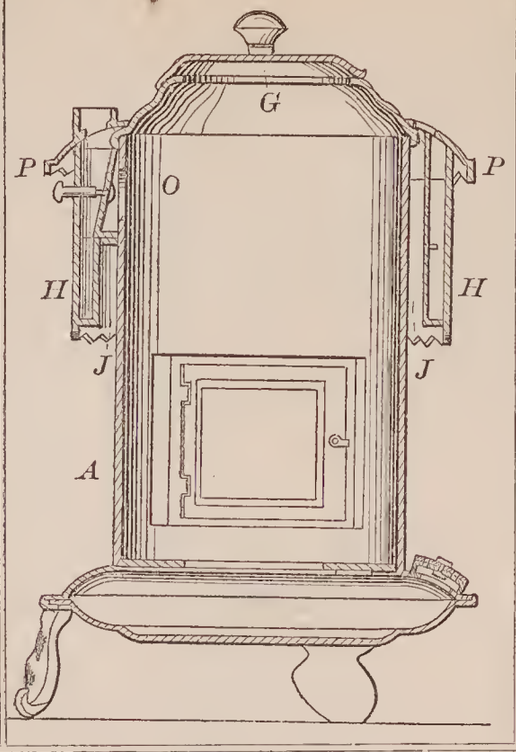


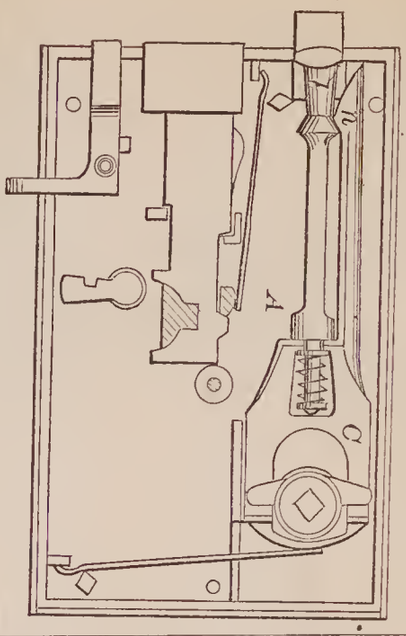
77961—C. C. Comstock—*Raft Dog.*



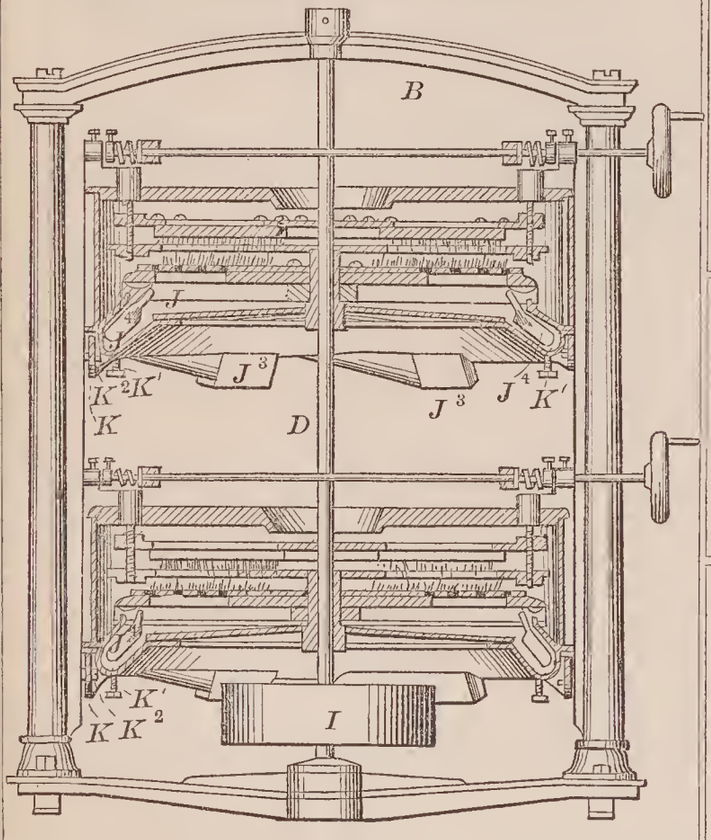
77962—T. Crane—*Coal Stove.*



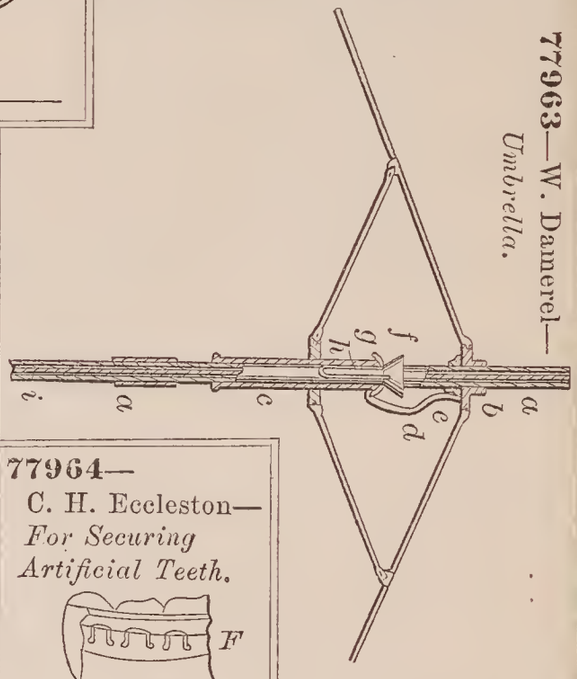
77966—B. Erbe—*Reversible Knob Latch.*



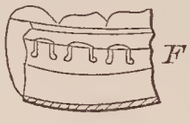
77965—P. T. Elting—*Bran Duster.*



77963—W. Damerel—*Umbrella.*



77964—C. H. Eccleston—*For Securing Artificial Teeth.*



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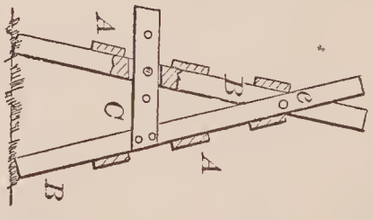
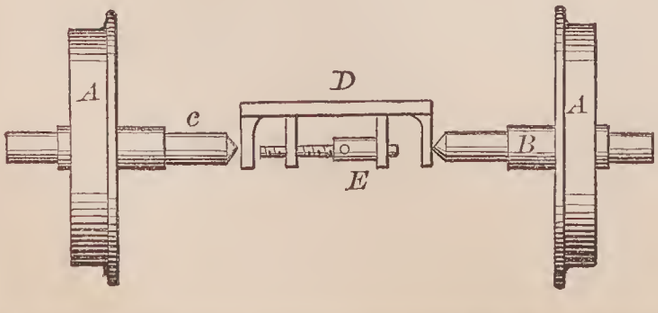
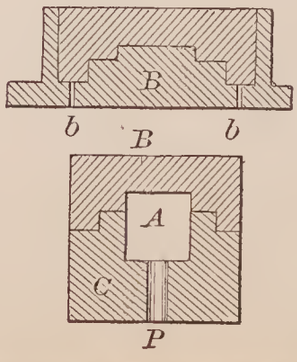


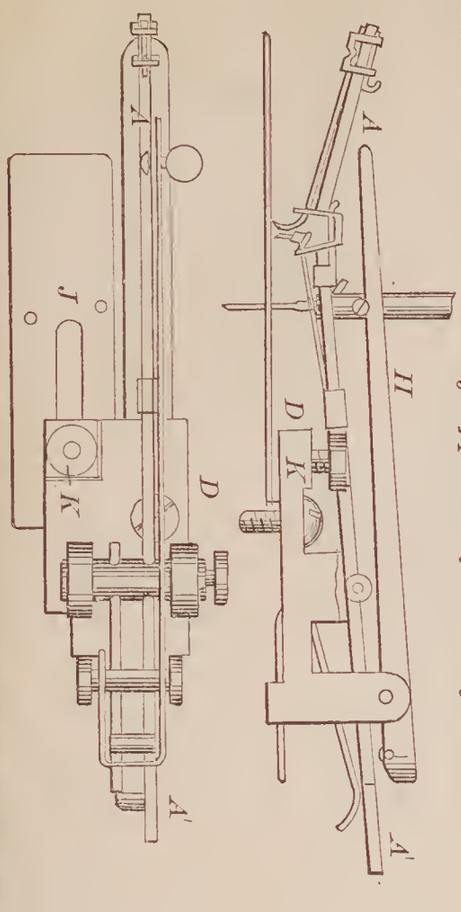
77968—W. B. Fahnestock—*Car Axle.*



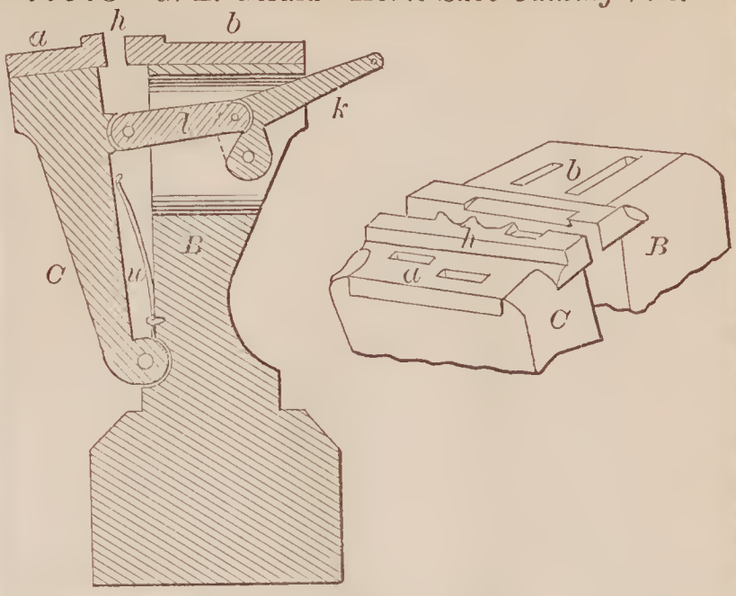
77969—Felthoff & Tingley—*Mould for Making Drain Tiles.*



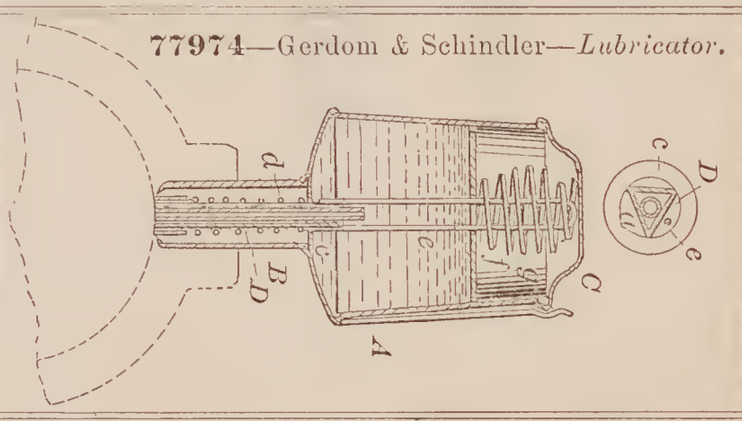
77972—H. W. Fuller—*Greasing Apparatus for Sewing Machines.*



77973—G. L. Gerald—*Horse Shoe Calking Vise.*



77974—Gerdom & Schindler—*Lubricator.*



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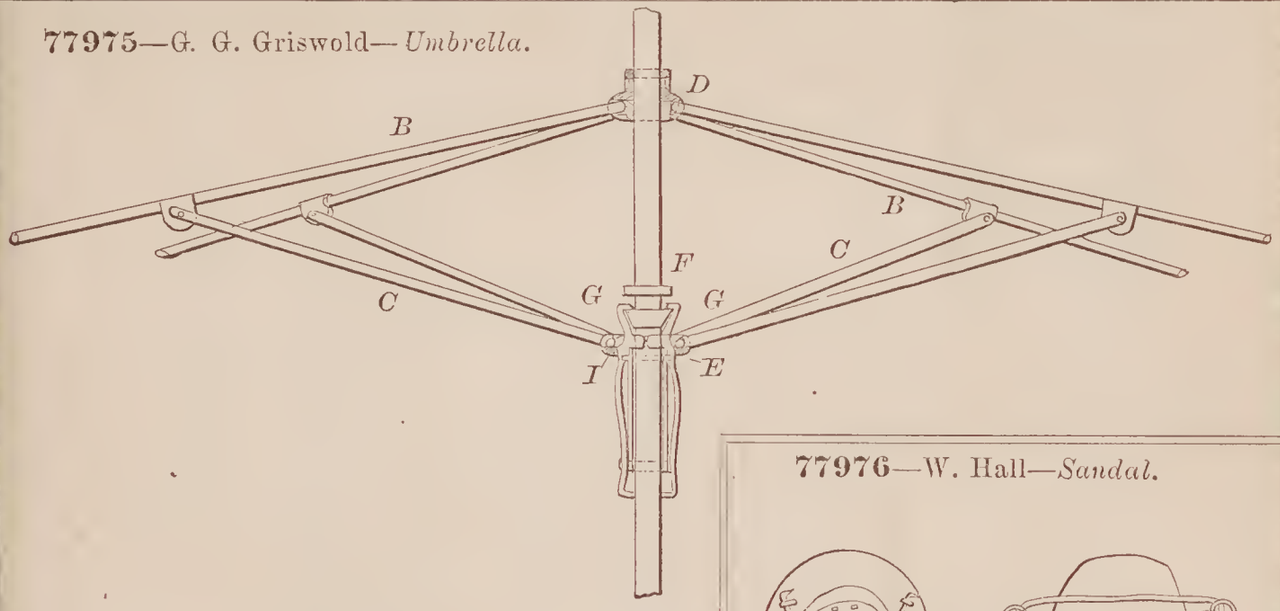

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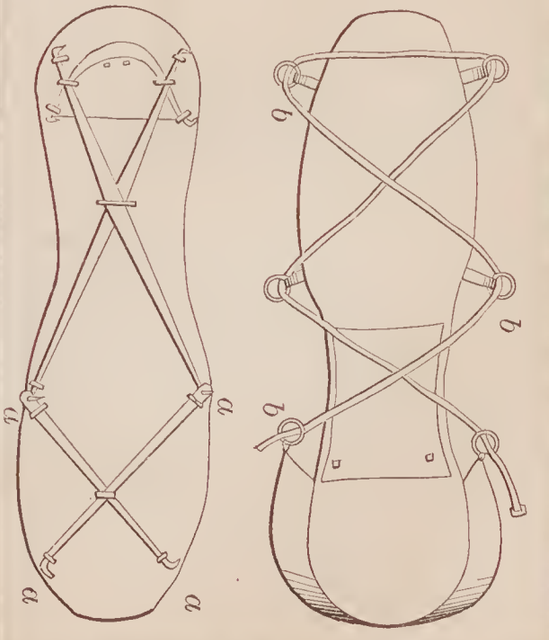
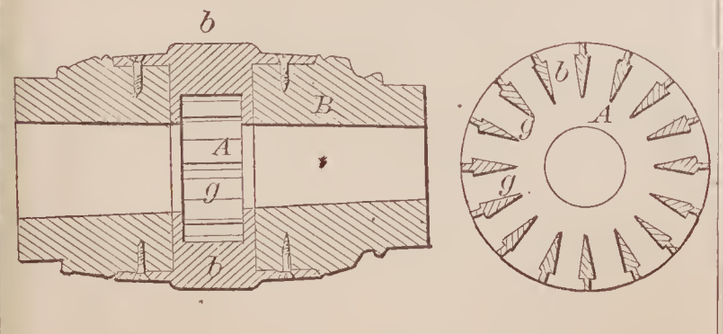
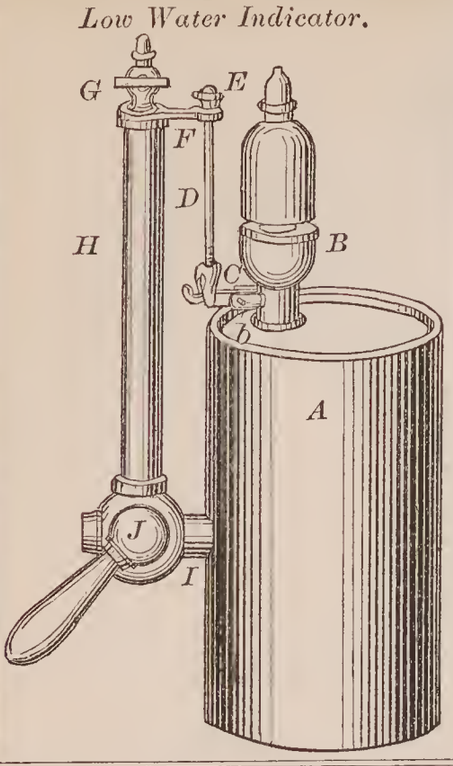


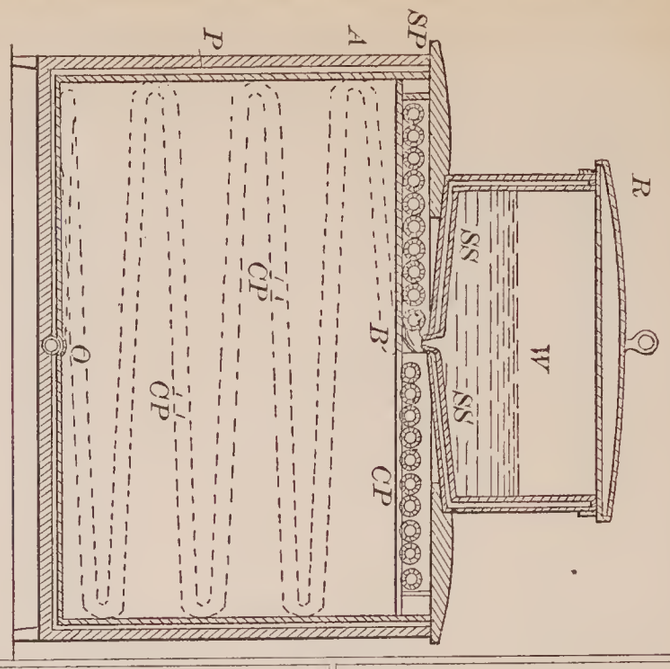
77977—H. D. Haraden—*Carriage Wheel Hub.*



77978—Hargrave & Charlton—*Low Water Indicator.*



77980—J. H. Hollingsworth—*Refrigerator.*



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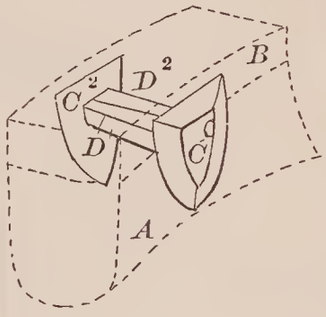
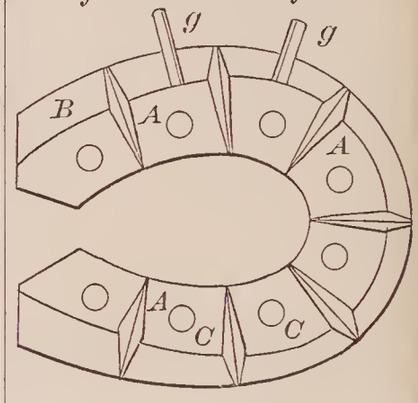
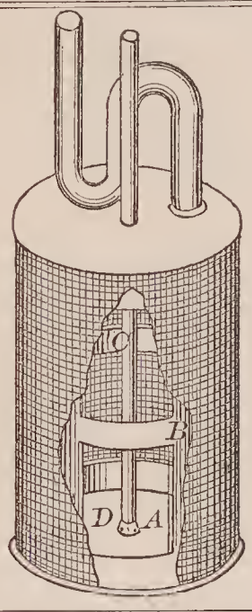


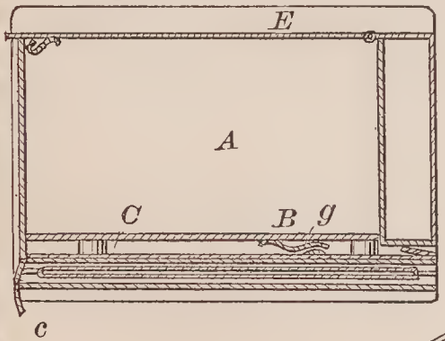
77979—J. Haseltine—*Pad for Horses' Hoofs.*



77982—Hunt & Knight—*For Collecting Gases.*



77984—M. Jincks—*Match Safe.*



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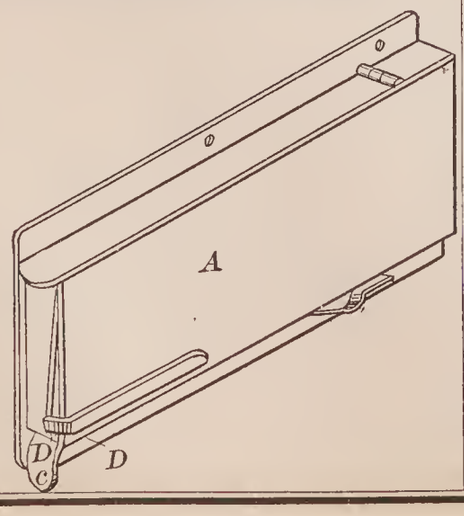
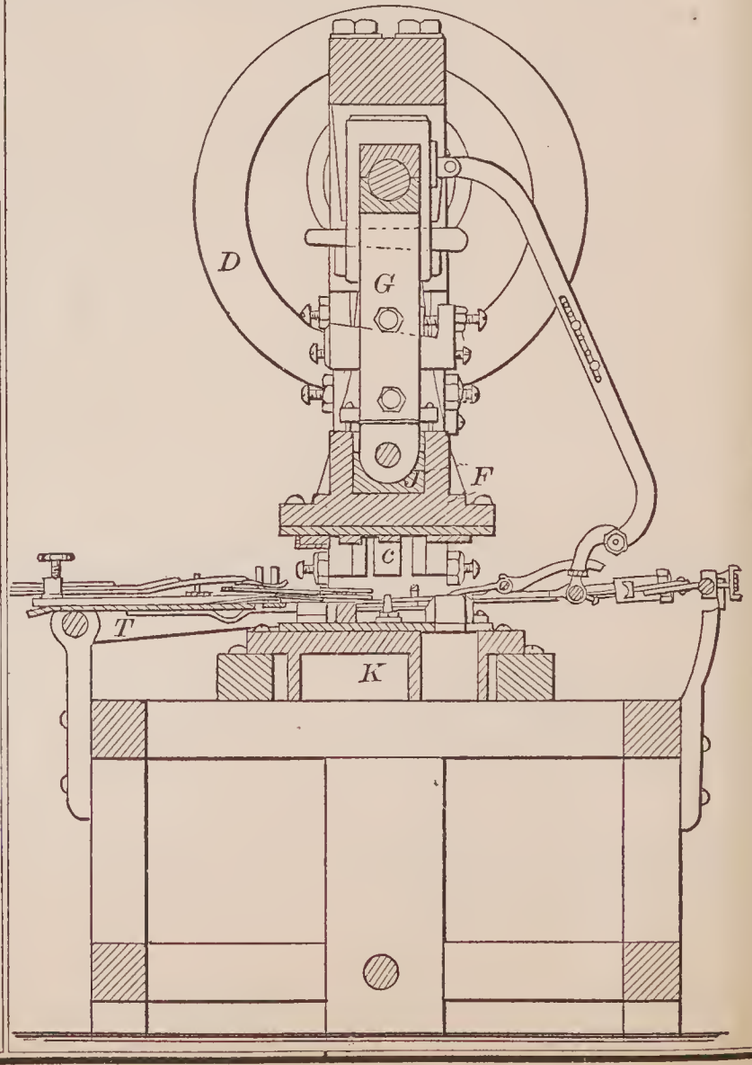
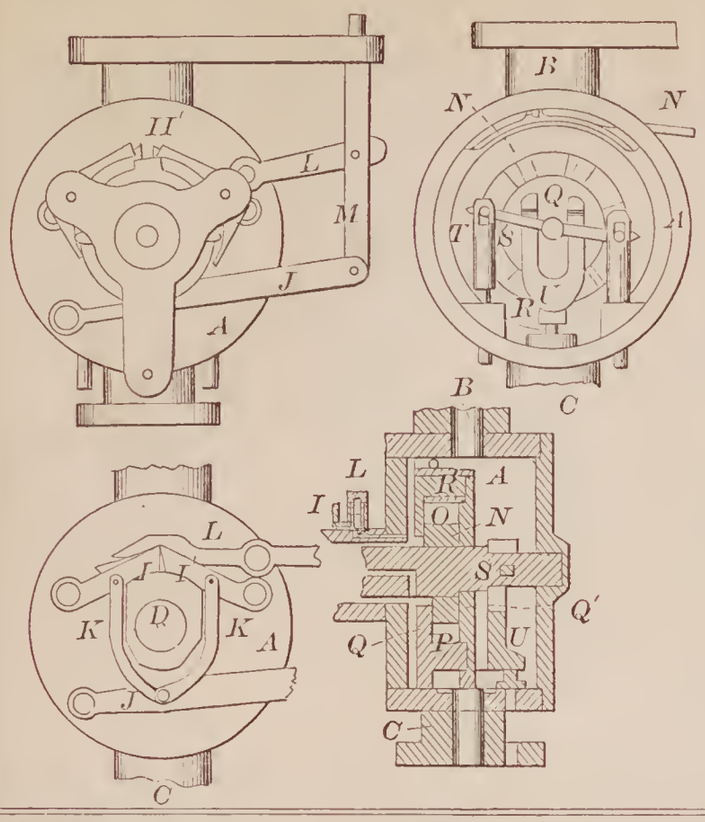


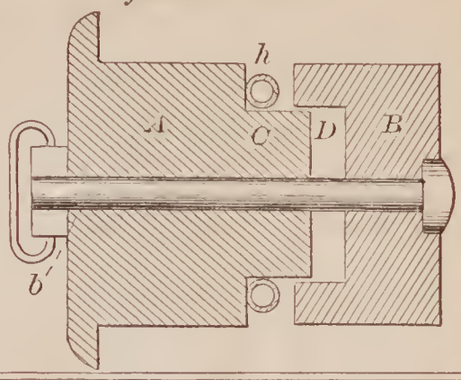
77985—W. H. Johnson—*Cutting Machine.*



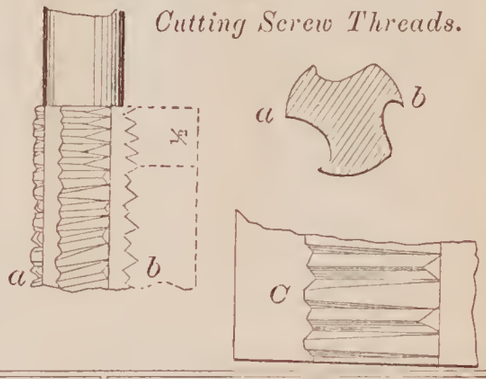
77986—A. Kendall—*Cut-off Valve Gear.*



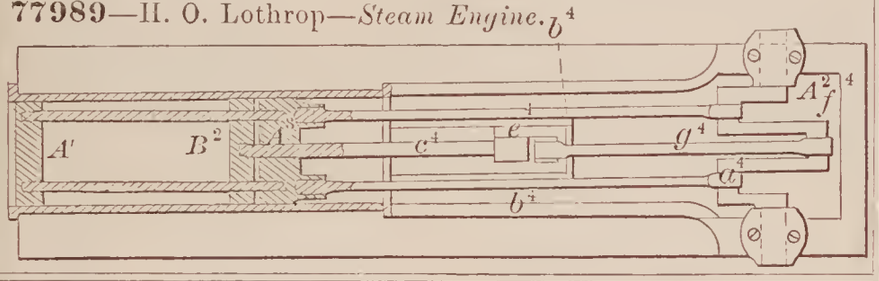
77988—T. T. S Laidley—*Tompion for Fire Arms.*



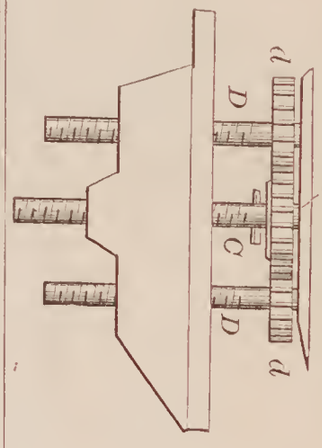
77994—W. Mantey—*Tap for Cutting Screw Threads.*



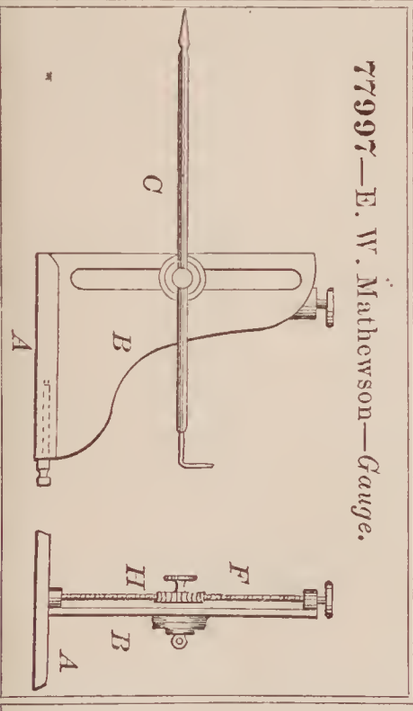
77989—H. O. Lothrop—*Steam Engine.*



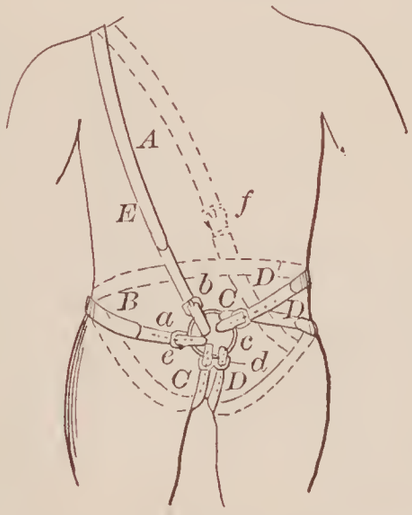
77998—E. B. McCoy—*Bench Dog.*



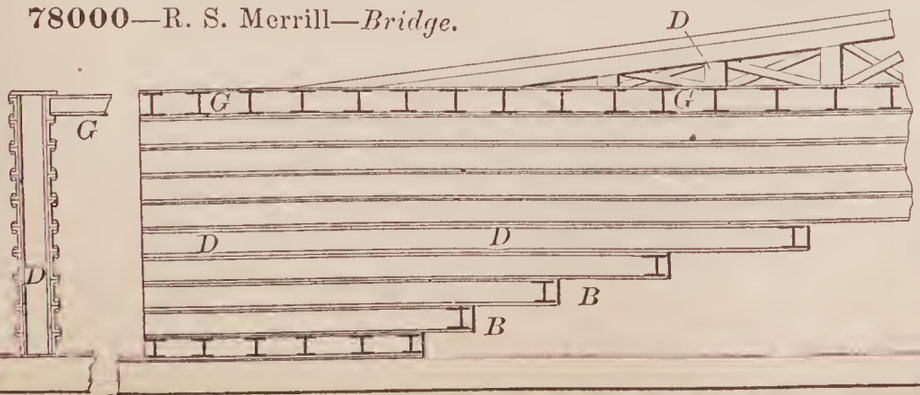
77997—E. W. Mathewson—*Gauge.*



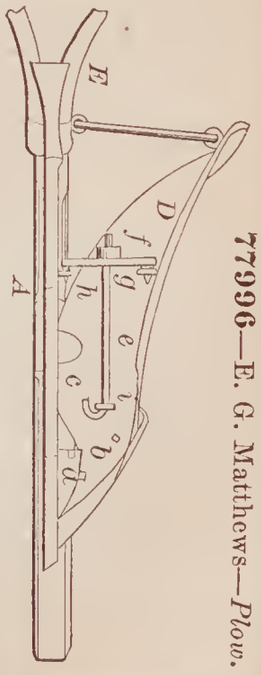
77999—J. McFadden—*Truss Supporter.*



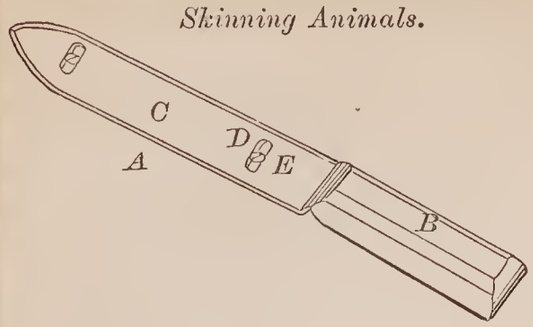
78000—R. S. Merrill—*Bridge.*



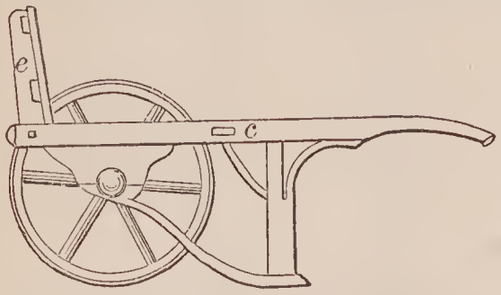
77996—E. G. Matthews—*Plow.*



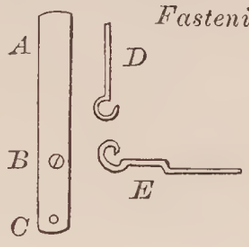
78002—G. W. Myers—*Knife for Skinning Animals.*



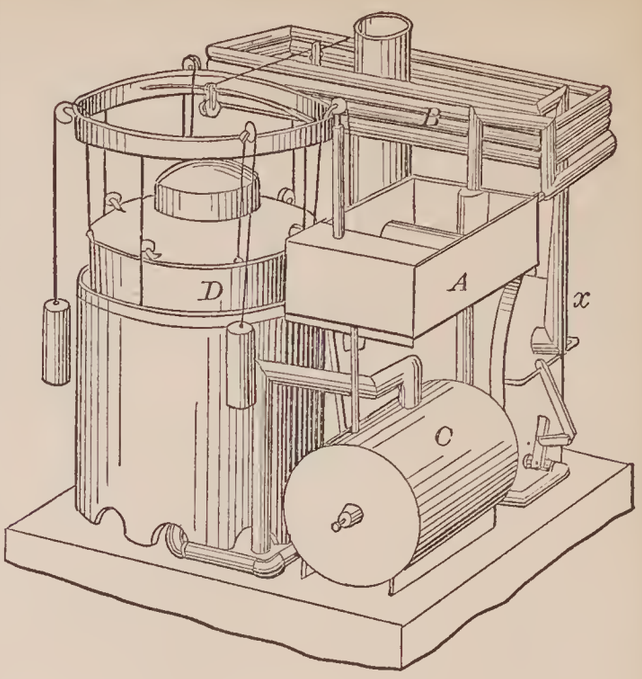
78003—W. F. Newcombe—*Wheelbarrow.*



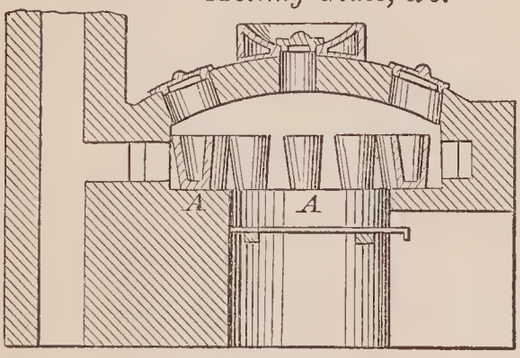
78004—J. M. Peirce—*Blind Slat Fastening.*

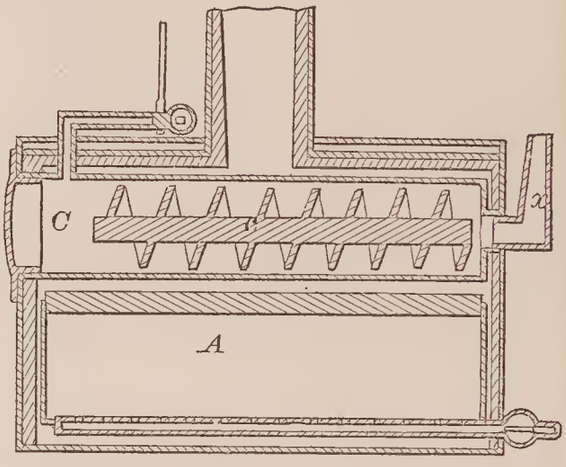


78006—J. Ponton—*Gas Apparatus.*

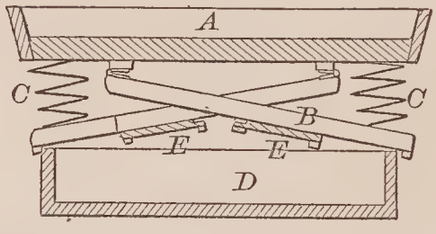


78007—W. P. Prickett—*Furnace for Melting Glass, &c.*

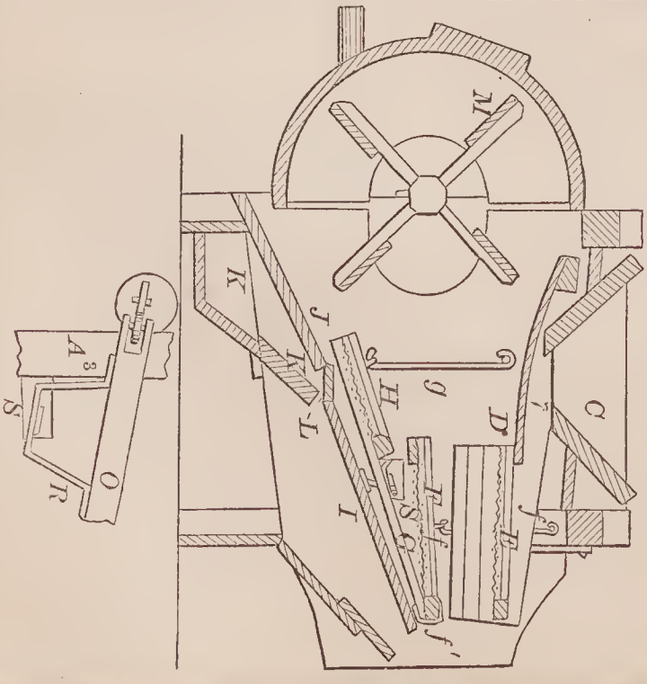


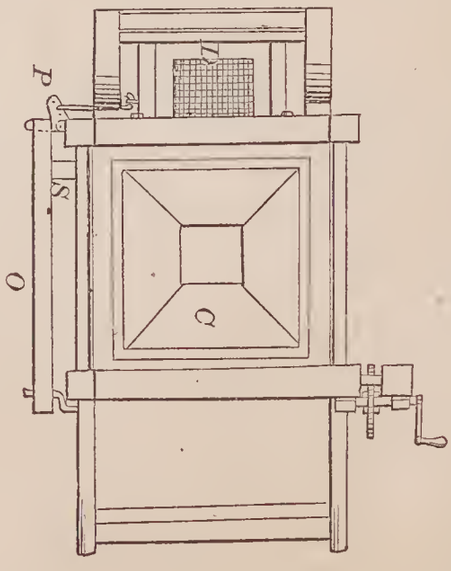


78009—A. Reichert—*Spring Wagon Seat.*

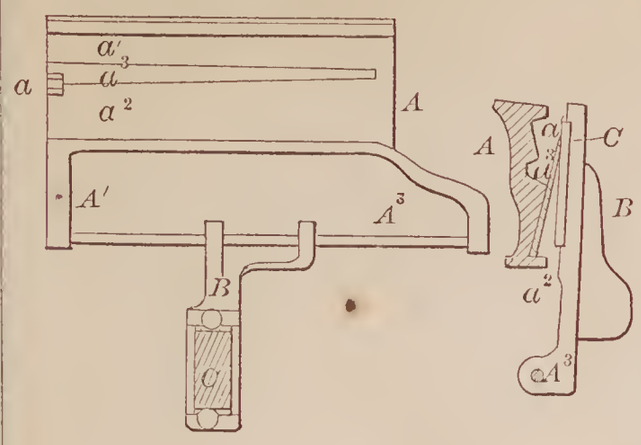


78008—Ray & Leigh—*Fanning Mill.*

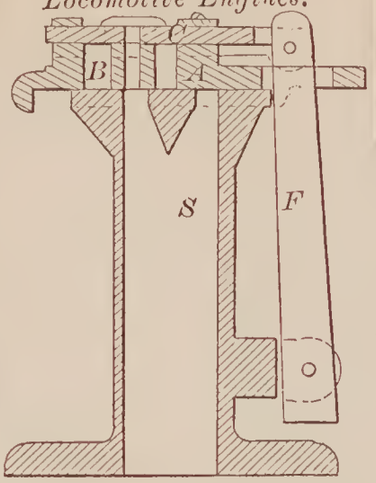




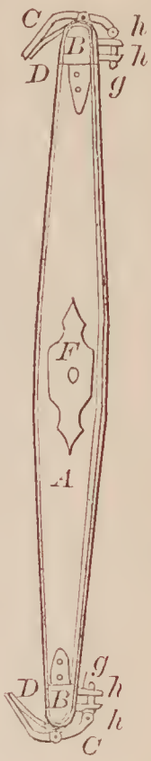
78010—C. H. Reynolds—*Knife Sharpener.*



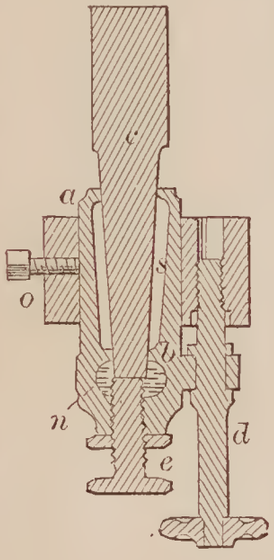
78012—G. Richards—*Throttle Valve for Locomotive Engines.*



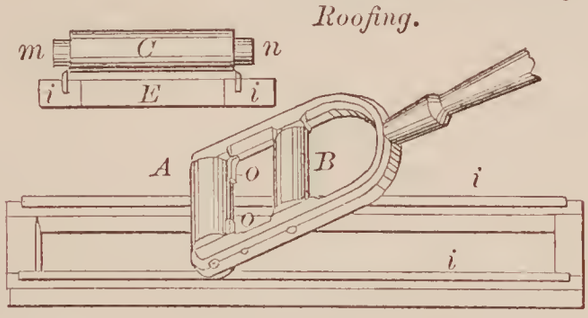
78011—E. D. & J. P. Rhoads—*Trace Fastener.*



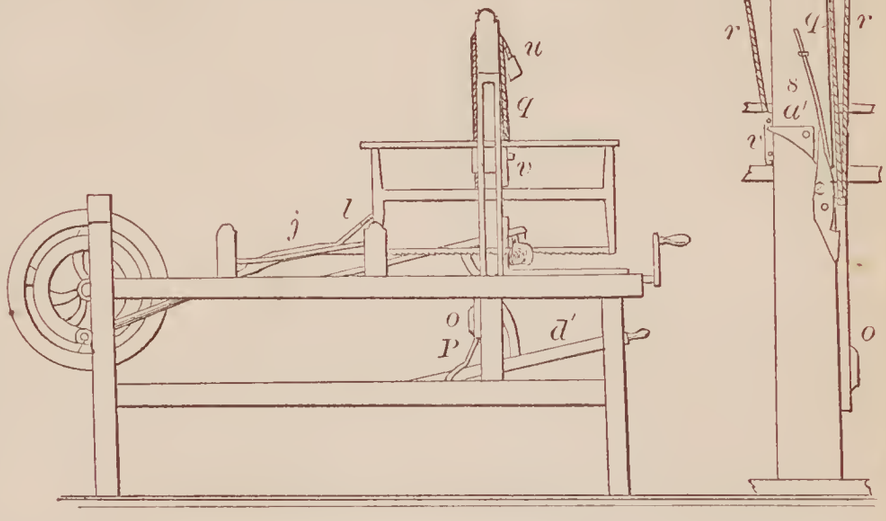
78013—J. Richards—*Bearing for Spindles.*



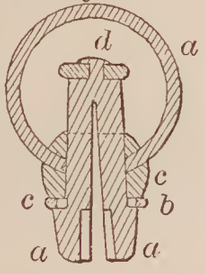
78014—Richardson & Cole—*For Rolling Roofing.*



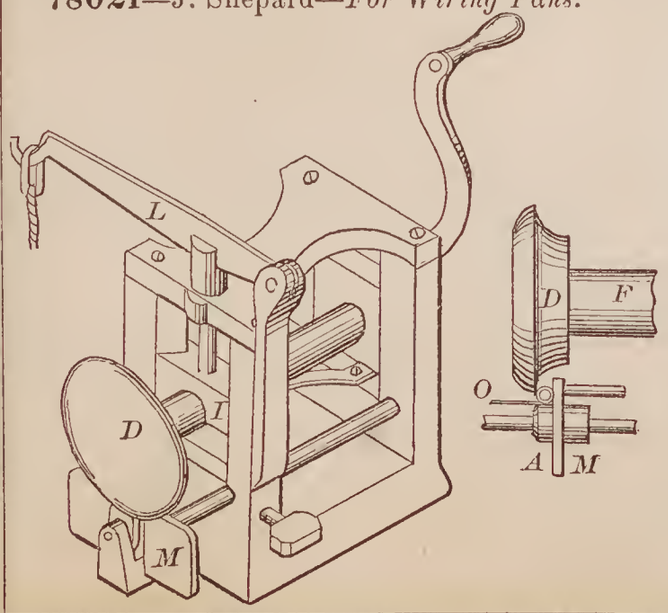
78019—A. E. Ross—*Sawing Machine.*



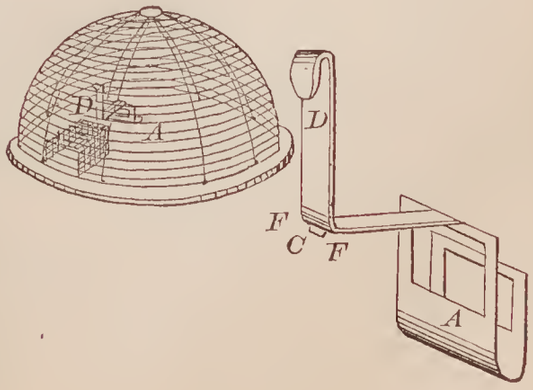
78020—E. C. Ryer—*Watch, Clock and Lock Key.*



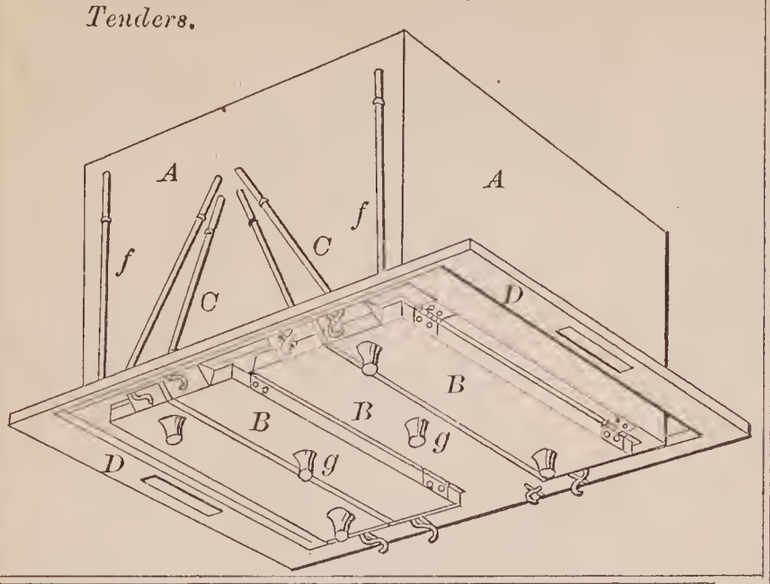
78021—J. Shepard—*For Wiring Pans.*



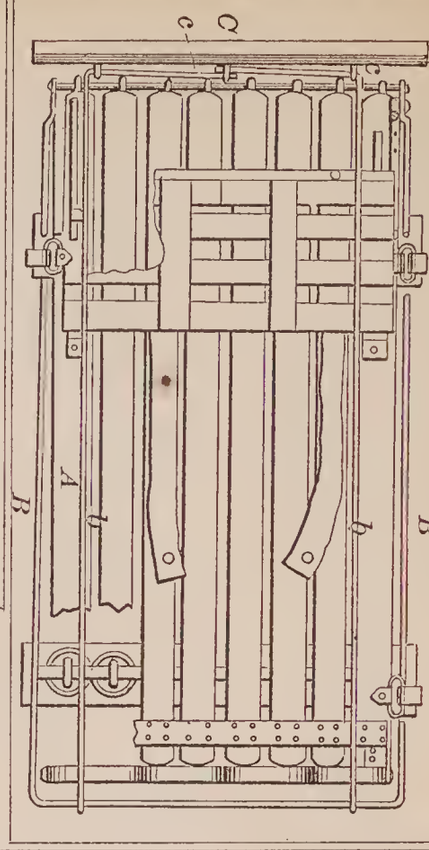
78015—T. L. Rivers—*Animal Trap.*



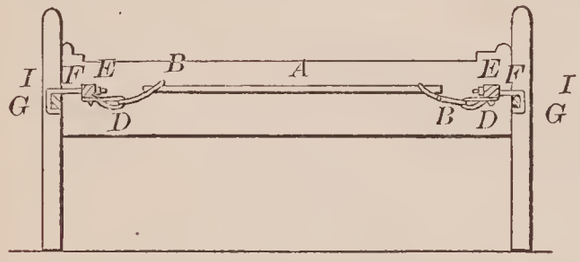
78022—A. D. Smith—*Loader for Locomotive Tenders.*



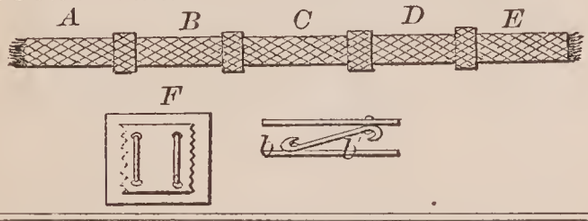
78024—E. Steinel—*Mosquito Bar.*



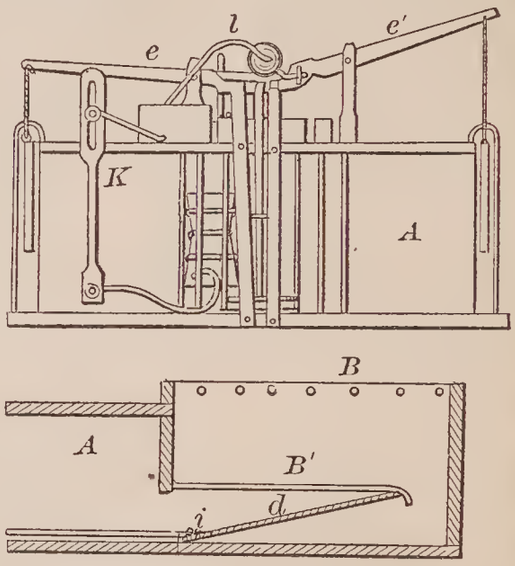
78026—J. C. Taylor—*Spring Bed Bottom.*



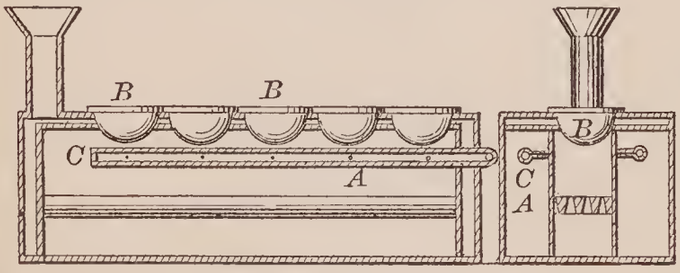
78027—E. Thomas—*Necktie.*



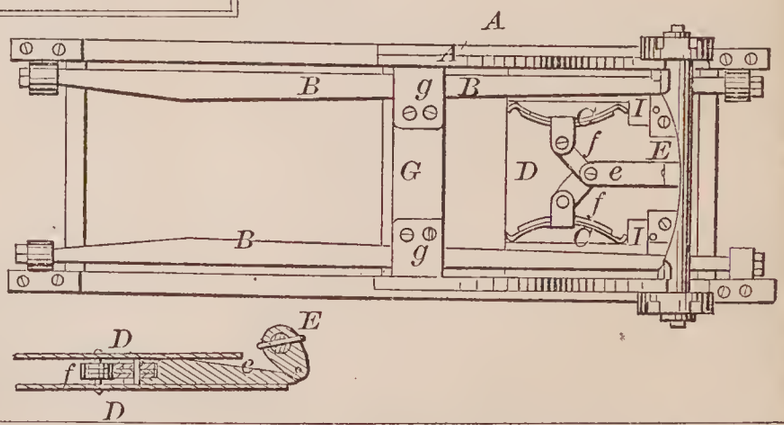
78029—J. Trainer—*Animal Trap.*



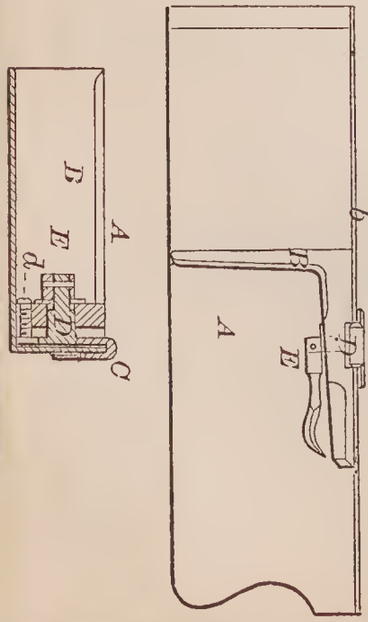
78028—J. M. Thompson—*Evaporator.*



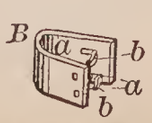
78030—C. S. Tyson—*Gun Carriage.*



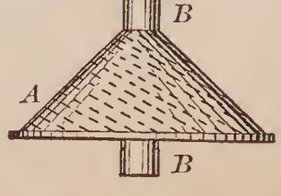
78033—J. L. Wait—*Composing Stick.*



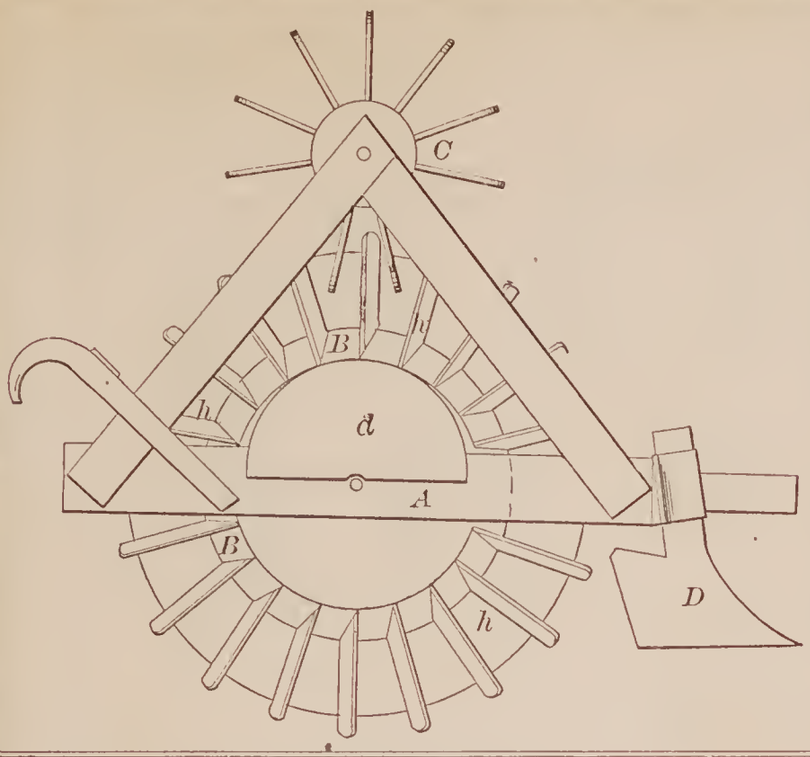
78032—E. Wadhams—*Metallic Tag for Straps.*



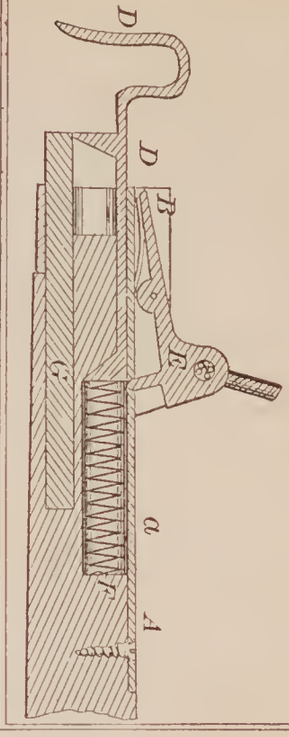
78025—B. F. & A. H. Stover—*Churn Dasher Head.*



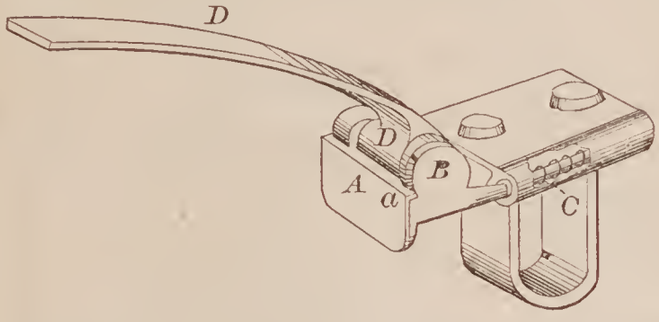
78031—Vaughn & Chamness—*Subsoil Plow.*



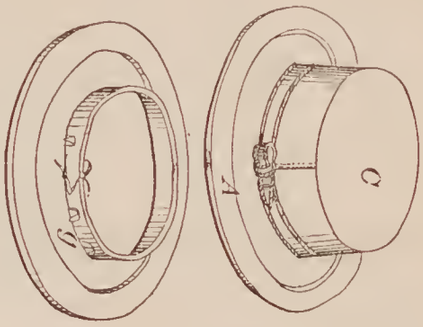
78034—H. Webster—*Whiffletree.*



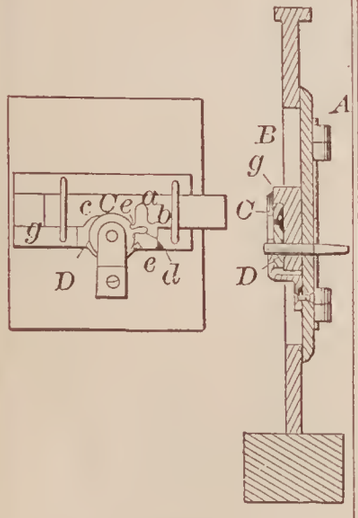
78035—H. Webster—*Thill Coupling.*



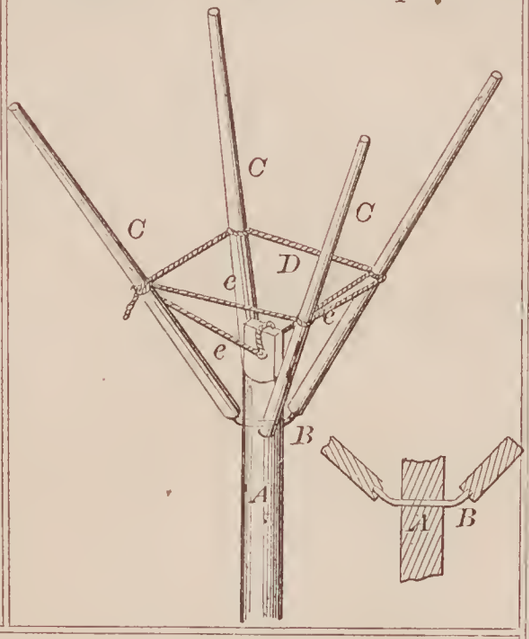
78036—W. H. White—*Hat.*



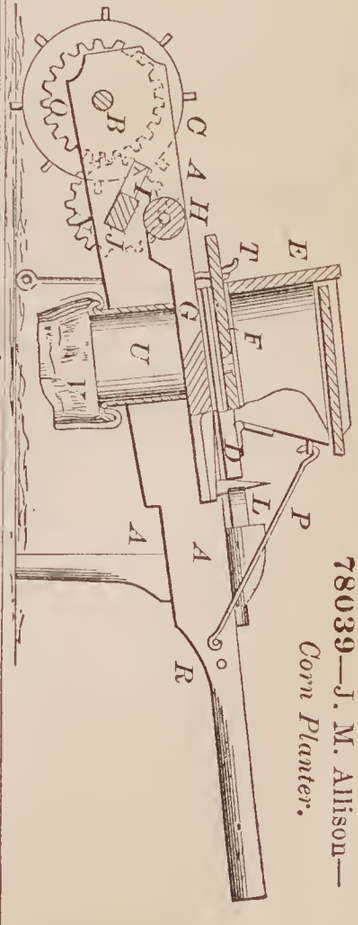
78038—L. L. Wooley—*Door Lock.*



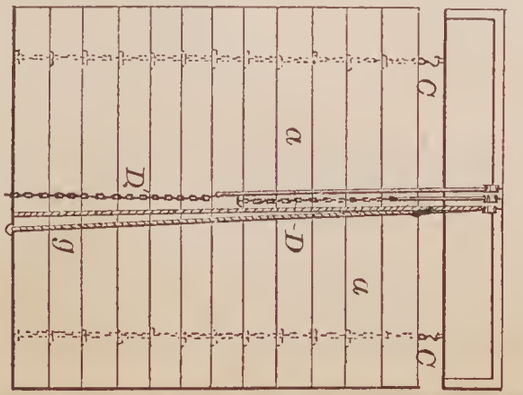
78037—D. F. Wilcox—*Hop Pole.*



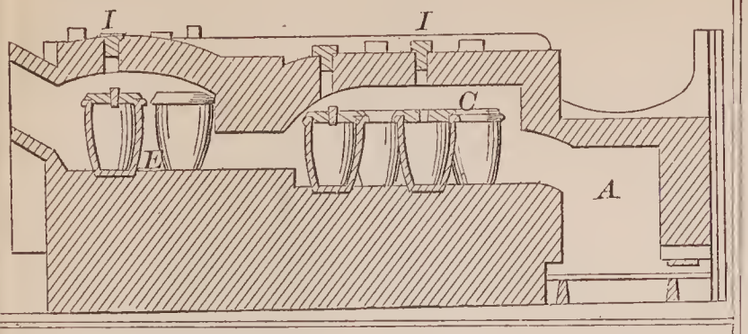
78039—J. M. Allison—*Corn Planter.*



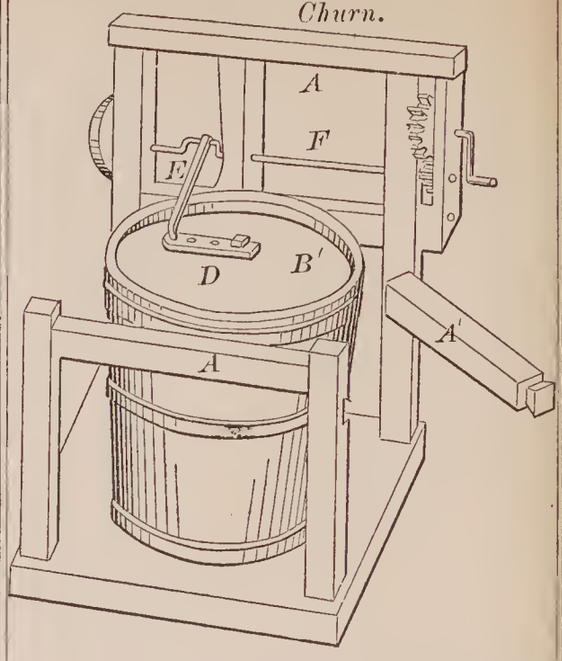
78040—Andresen & Asbahr—*Venetian Blind.*



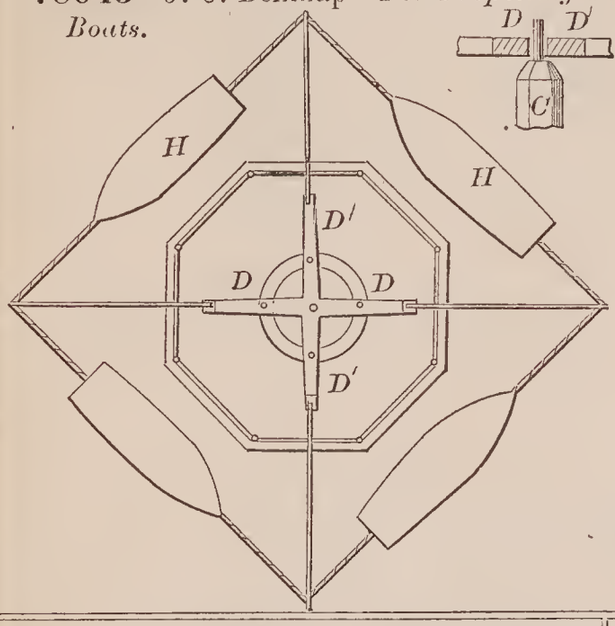
78041—F. Asthower—*Manufacture of Steel.*



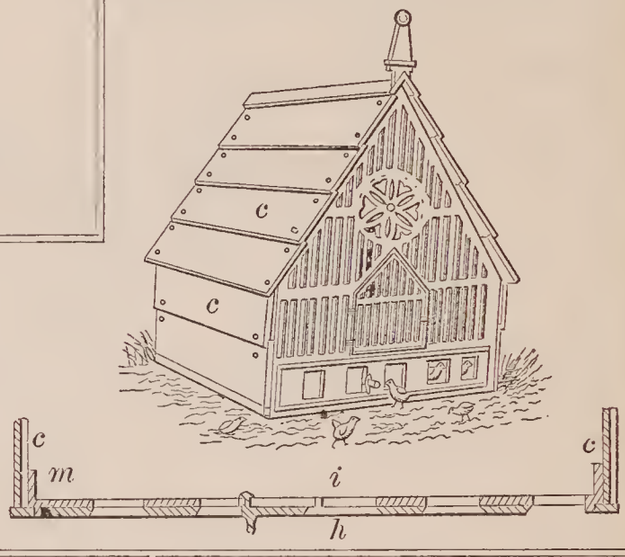
78042—Bartholomew & Dinsmore—*Churn.*



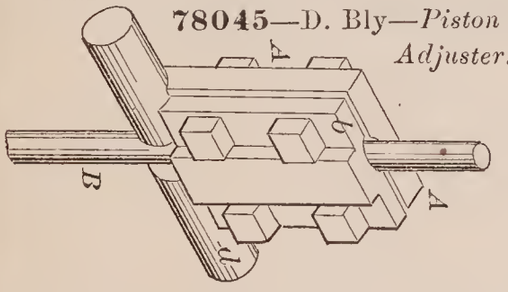
78043—J. O. Belknap—*For Propelling Pleasure Boats.*



78044—S. S. Bent—*Chicken Coop.*

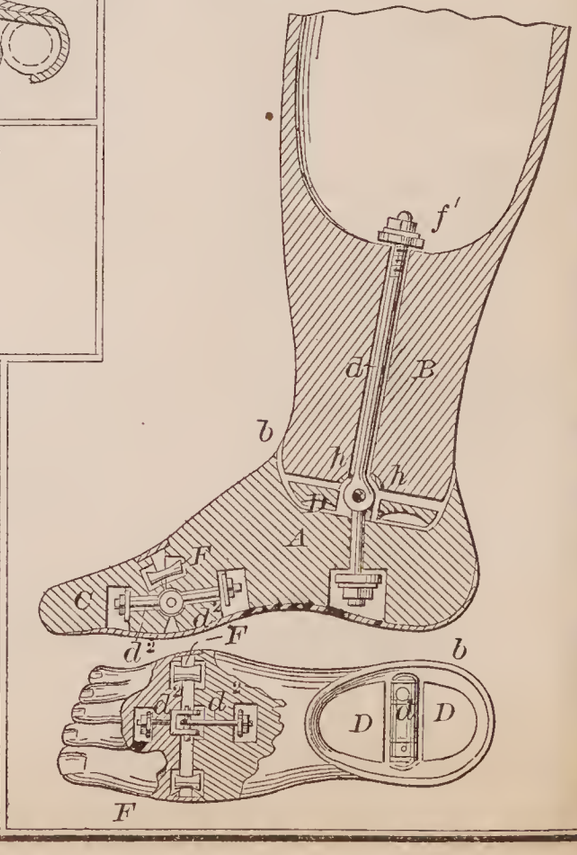


78045—D. Bly—*Piston Rod Adjuster.*

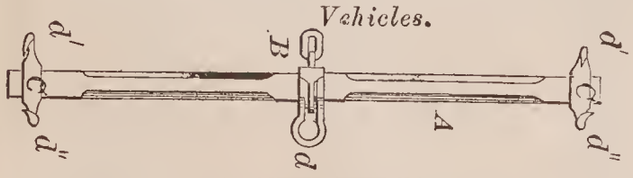


78047—J. L. Brierly—*Pipe Wrench and Cutter.*

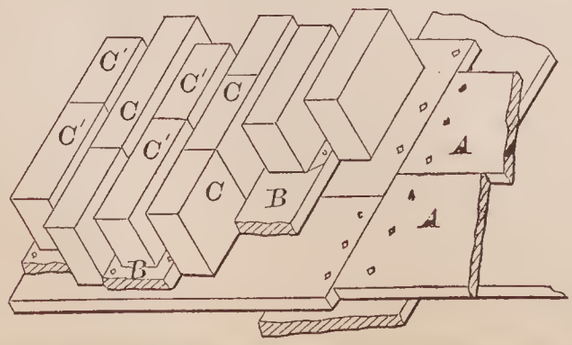
78048—R. Briody—*Artificial Limb.*



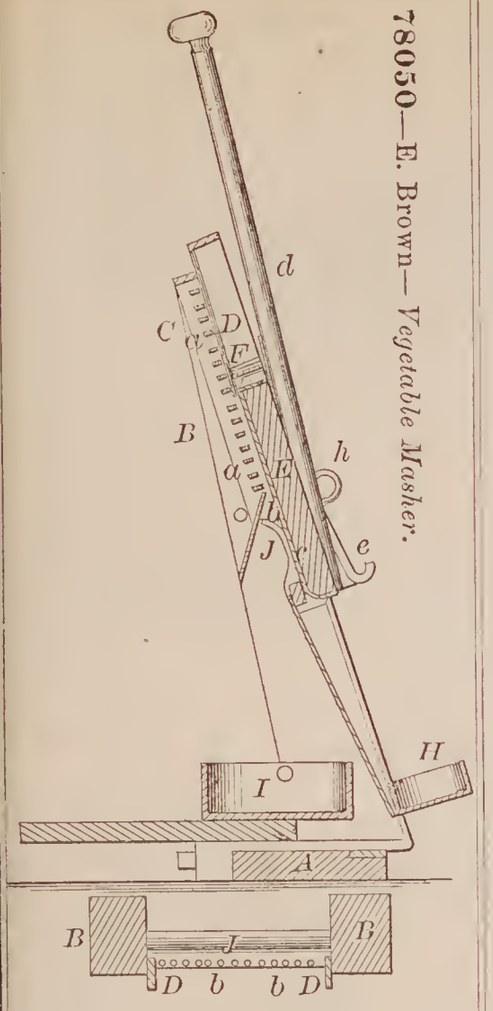
78049—W. P. Brooks—*Draught Attachment for Vehicles.*



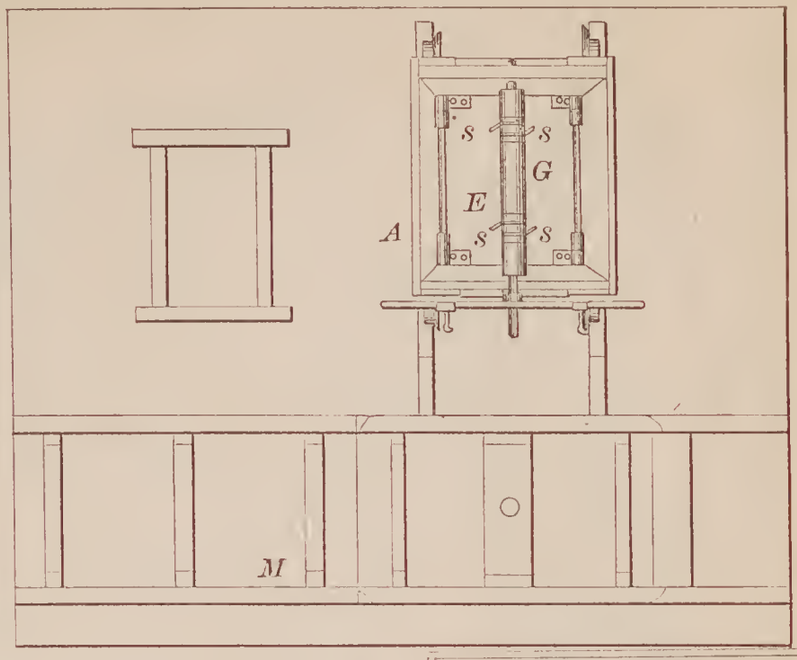
78046—W. W. Boyington—*Pavement.*

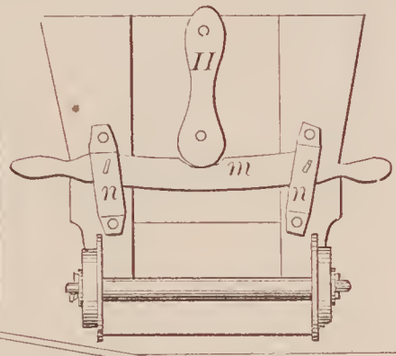


78050—E. Brown—*Vegetable Masher.*

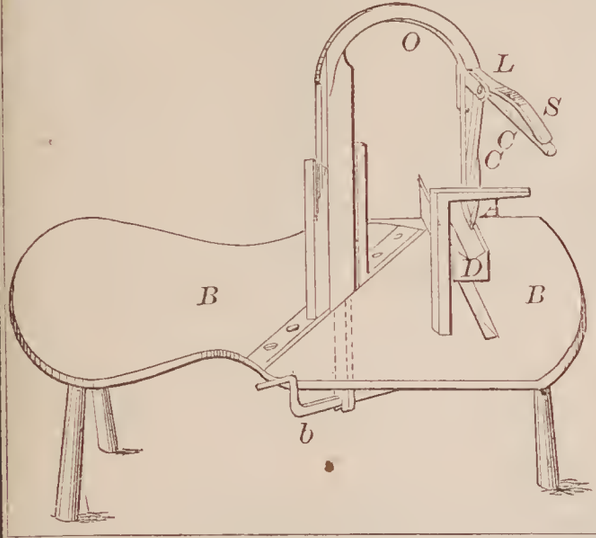


78051—J. Bundy—*Peat Car.*



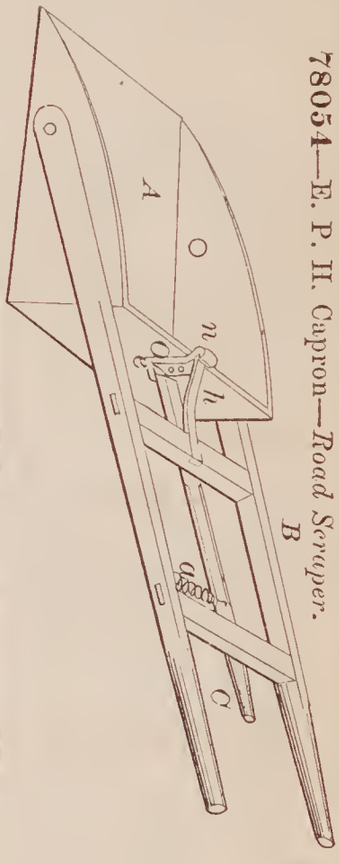


78052—I. S. Bunnell—*Corn Husker.*

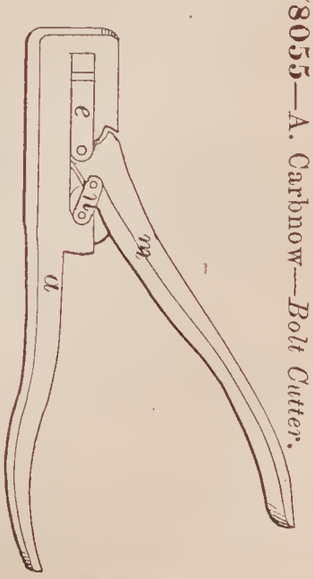


78053—C. Burnham—*Gas Heater.*

78054—E. P. H. Capron—*Road Scraper.*

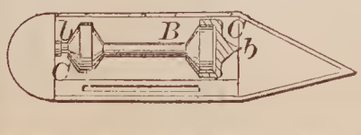


78055—A. Carbnow—*Bolt Cutter.*

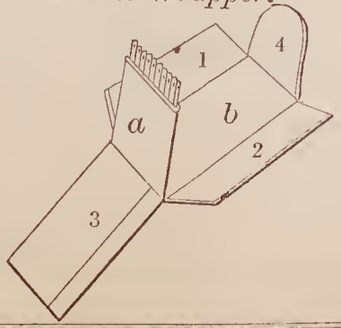


78056—W. B. Cargill—*Corset Fastening.*

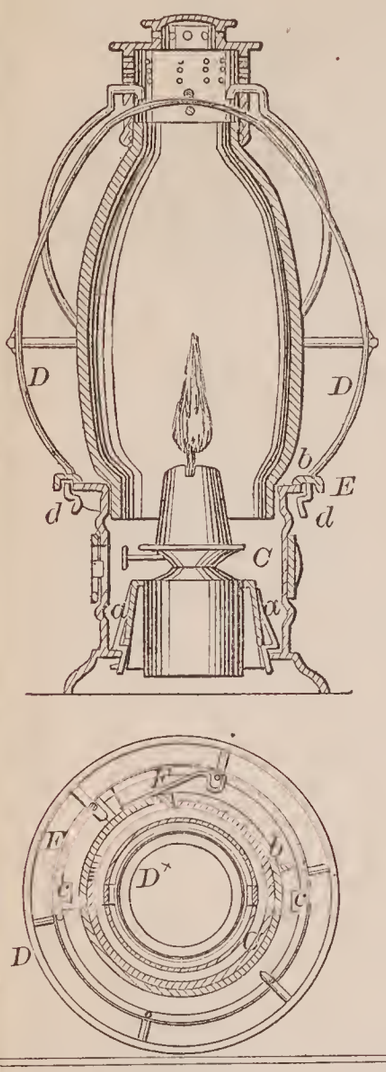
78057—D. M. Church—*Sewing Machine Shuttle.*



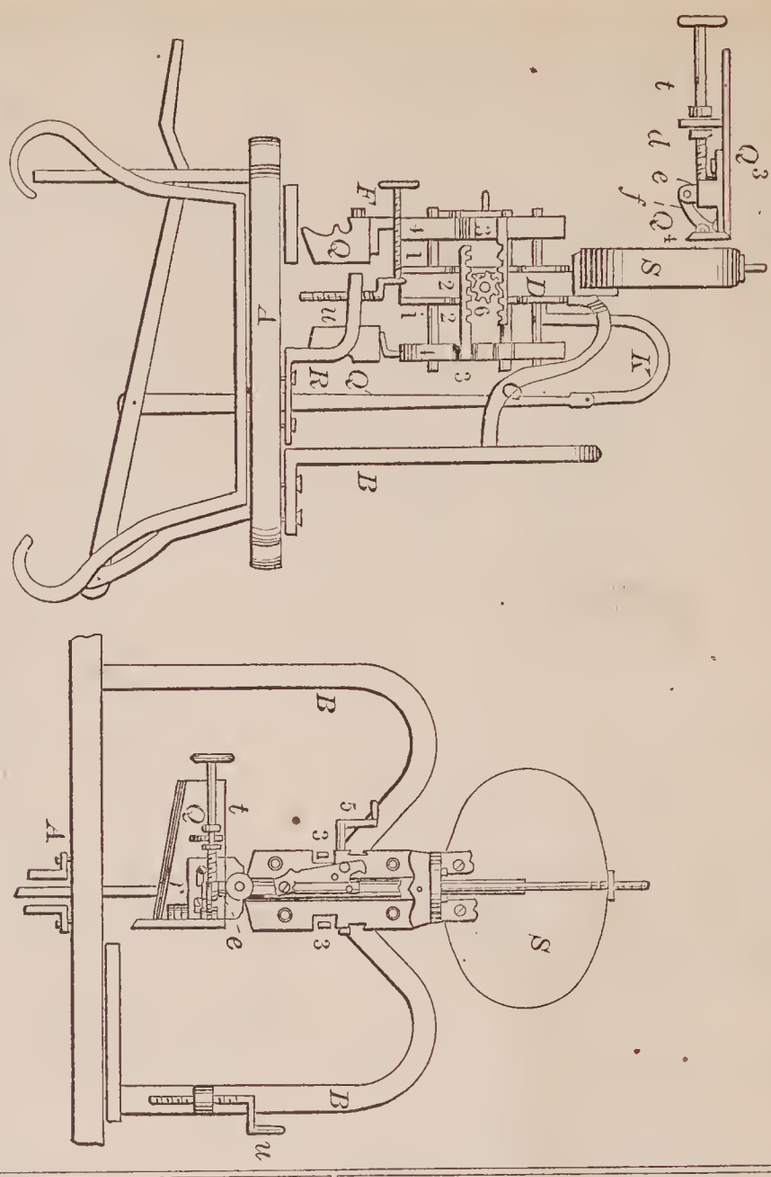
78059—J. Clarke—*Needle Wrapper.*



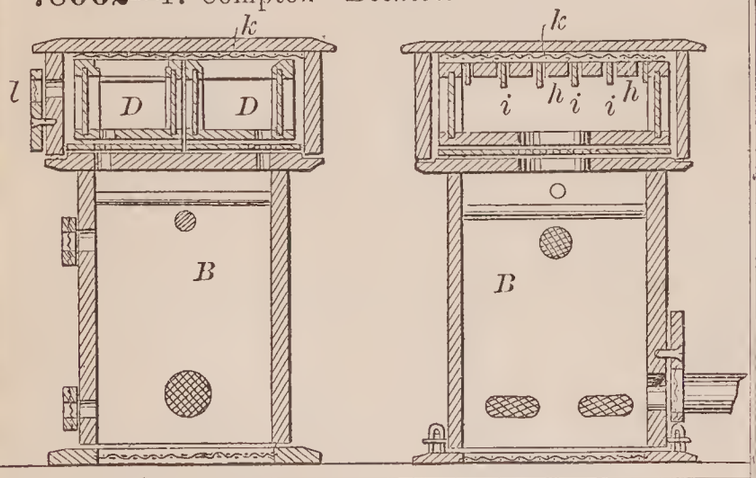
78058—P. J. Clark—*Lantern.*



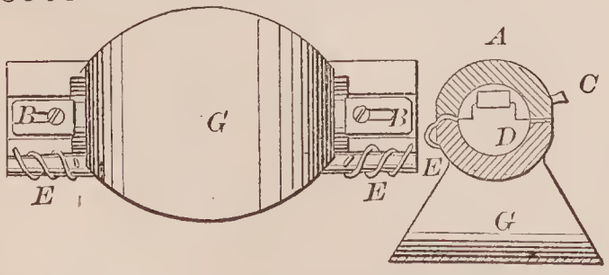
78060—W. E. Cobb—*Tenoning Machine.*



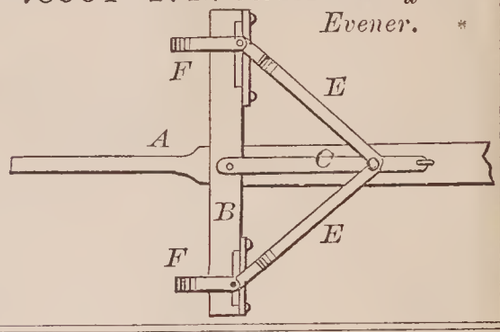
78062—P. Compton—*Beehive.*



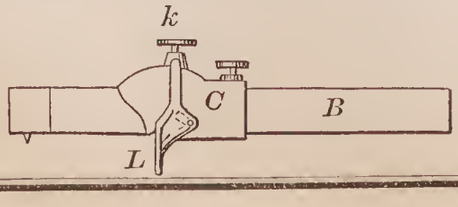
78063—D. T. Conde—*Sad Iron Holder.*



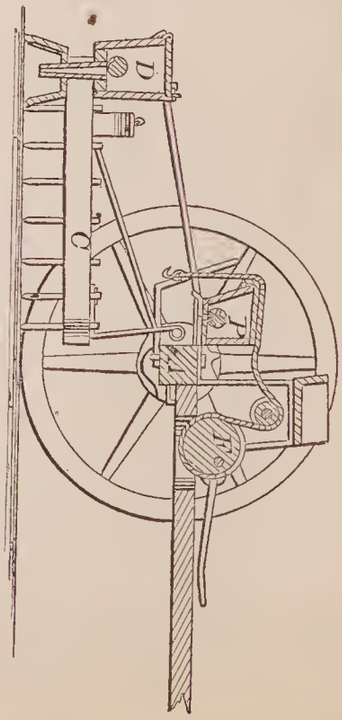
78064—F. N. Corbin—*Whiffletree Evener.*



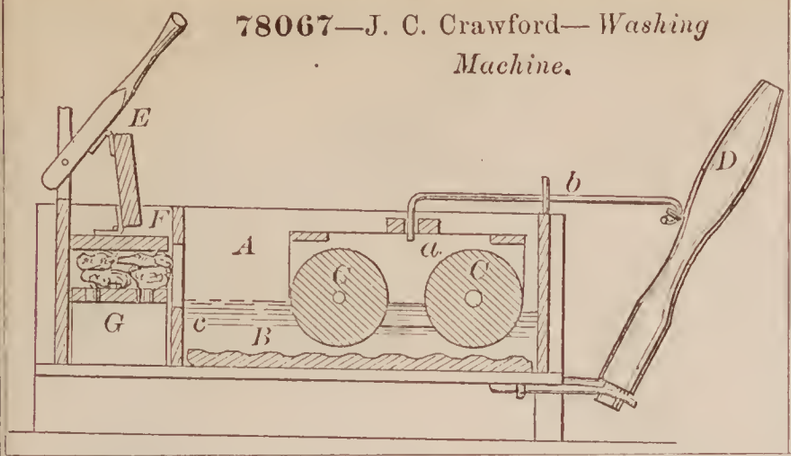
78065—F. W. Coy—*Carpenters' Gauge.*



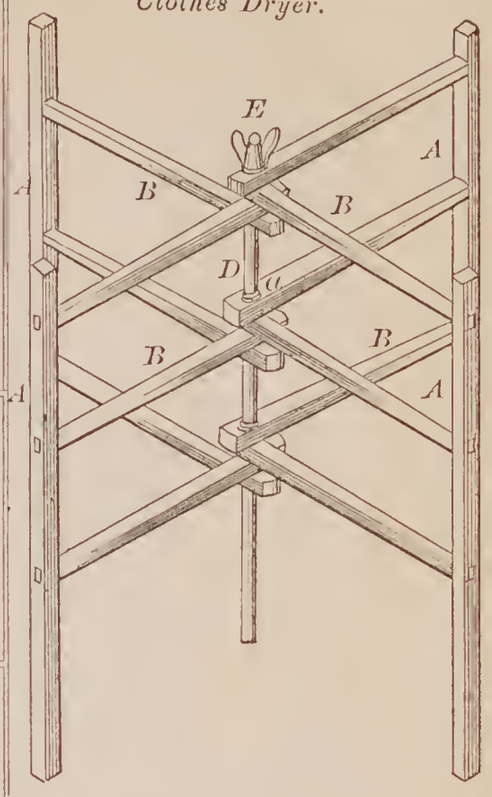
78066—E. F. Crawford—*Seeder and Cultivator.*



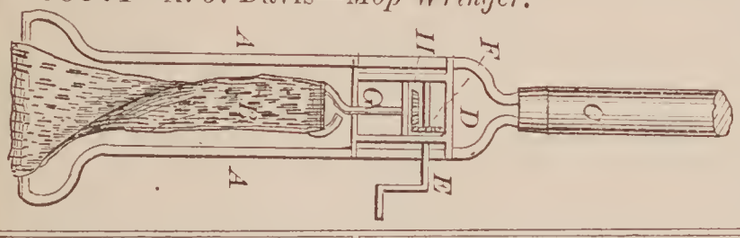
78067—J. C. Crawford—*Washing Machine.*



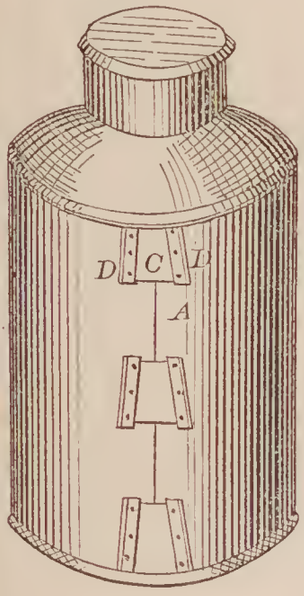
78069—J. D. Davenport—*Clothes Dryer.*



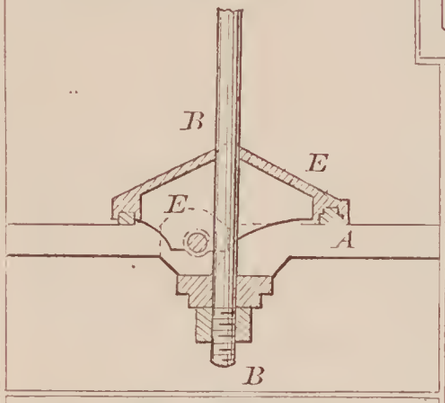
78071—A. J. Davis—*Mop Wringer.*

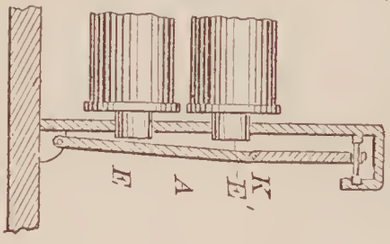


78072—J. E. Dean—*Milk Can.*

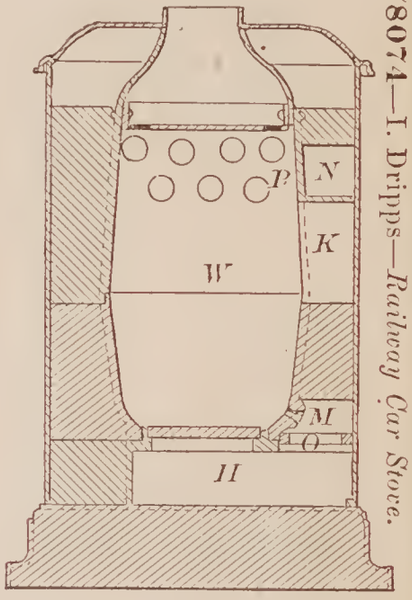


78073—Denmead & Bollman—*Bridge.*

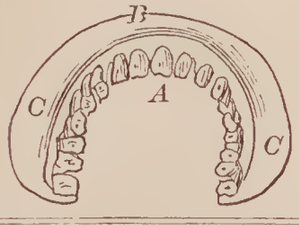




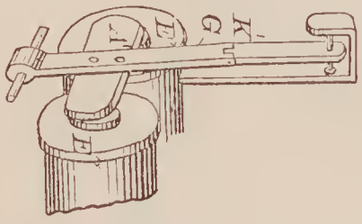
78074—I. Dripps—*Railway Car Stove.*



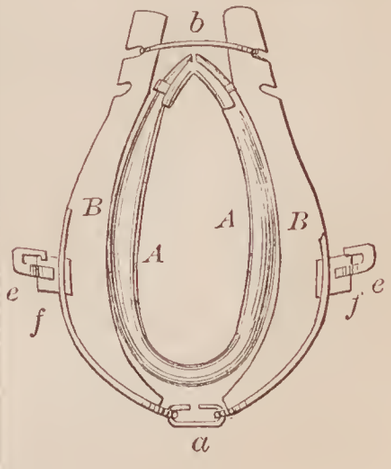
78070—V. R. David—*Inserting Artificial Teeth.*

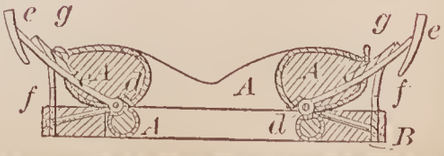


78076—C. Durant—*Relay Magnet.*

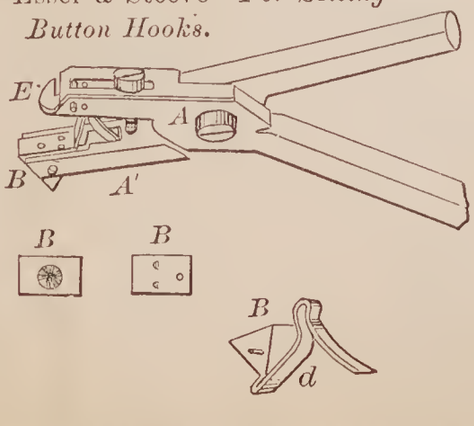


78075—A. Dunbar—*Horse Collar and Hames.*

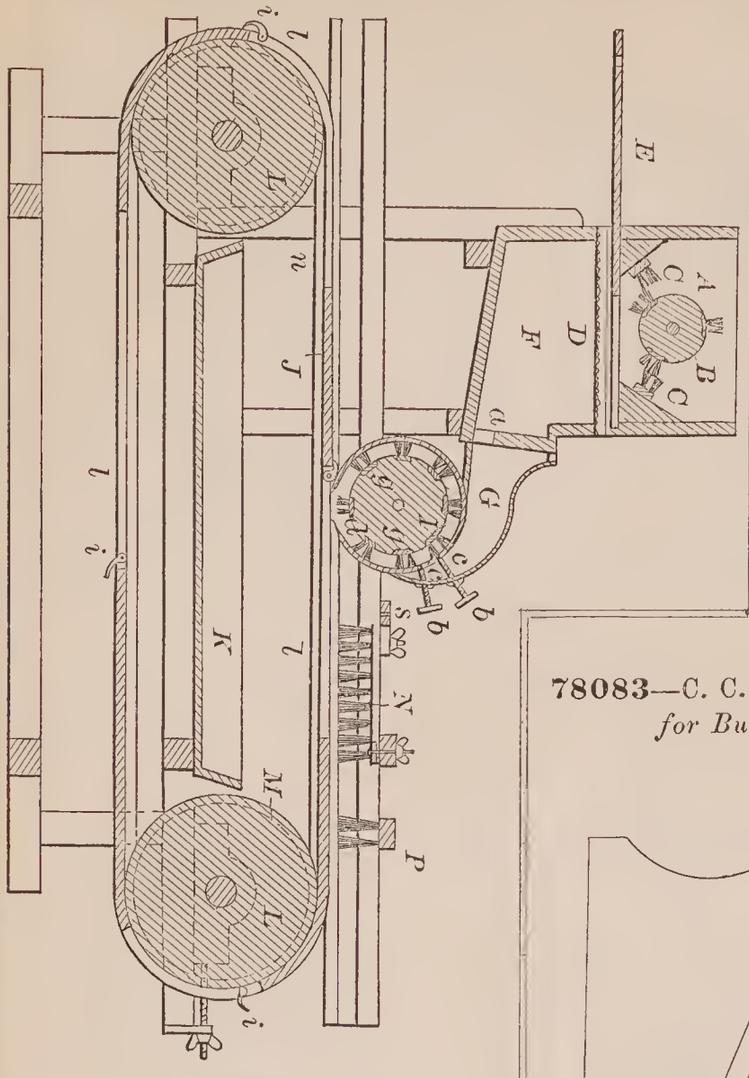




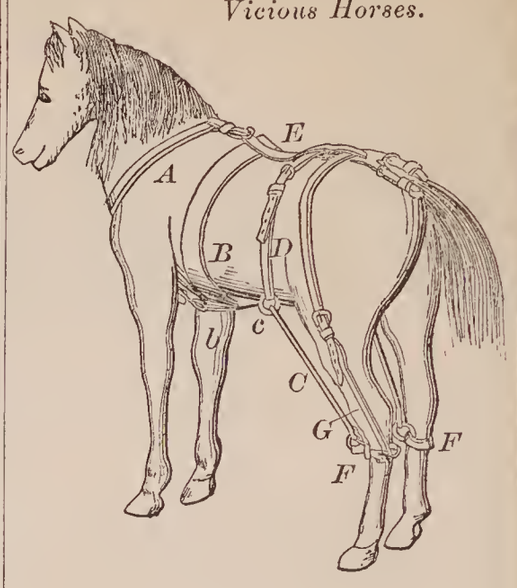
78077—Esser & Steeve—*For Setting Button Hooks.*



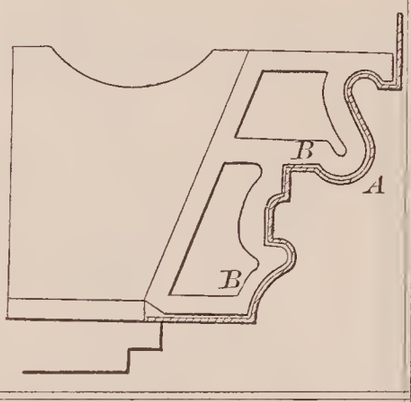
78079—M. H. Gardner—*For Enameling Paper.*



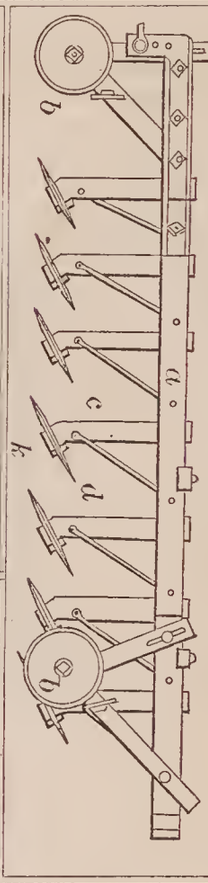
78082—S. L. Gray—*Harness for Vicious Horses.*



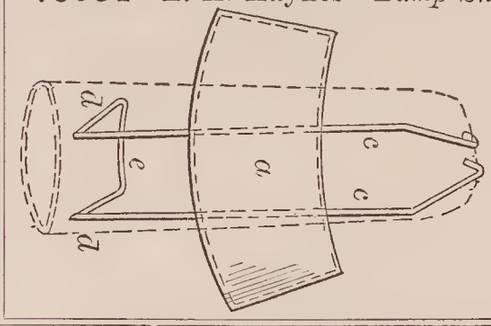
78083—C. C. Hare—*Cornice for Buildings.*



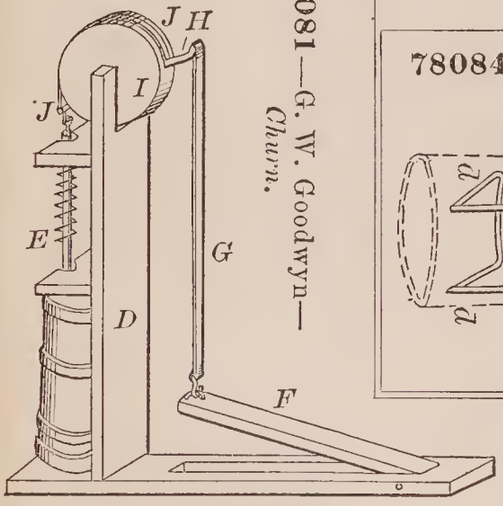
78080—H. A. Gaston—*Cultivator.*



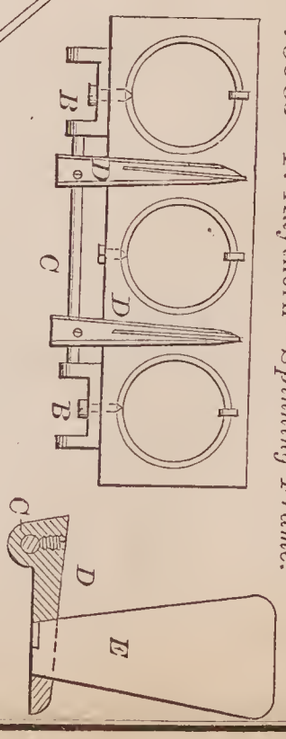
78084—E. K. Haynes—*Lamp Shade.*

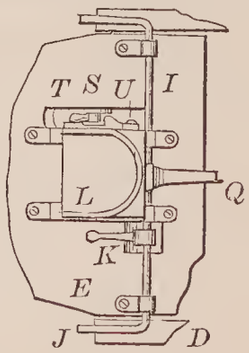


78081—G. W. Goodwyn—*Churn.*

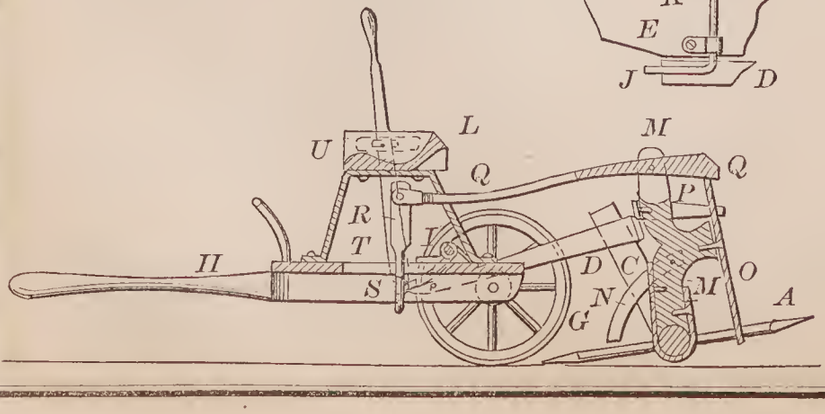


78085—F. Haythorn—*Spinning Frame.*

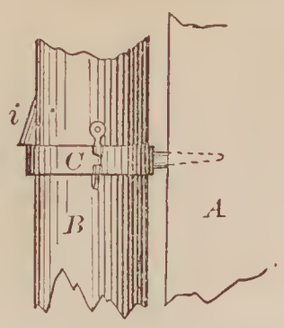




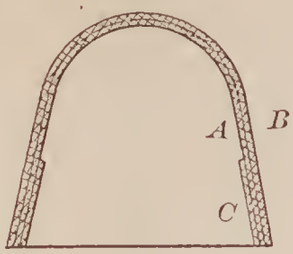
78086—W. A. Heath—*Hay Rake.*



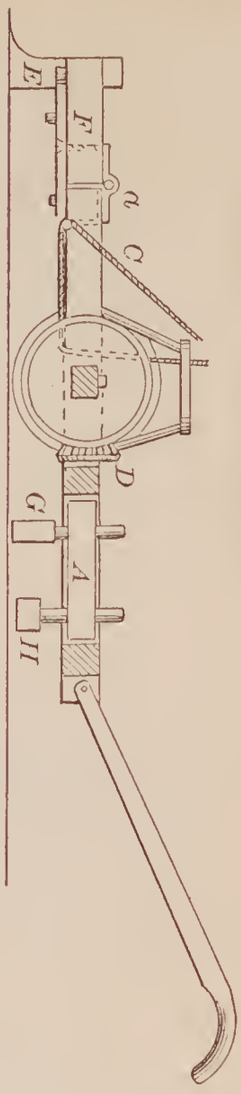
78087—G. A. Hein—*Water Spout Fastening.*



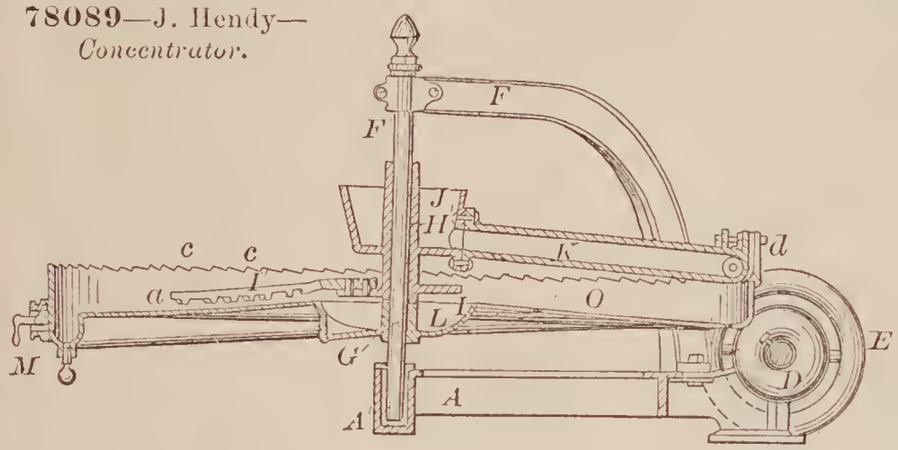
78090—R. D. Hine—*Facing Wool Hat Bodies with Fur.*

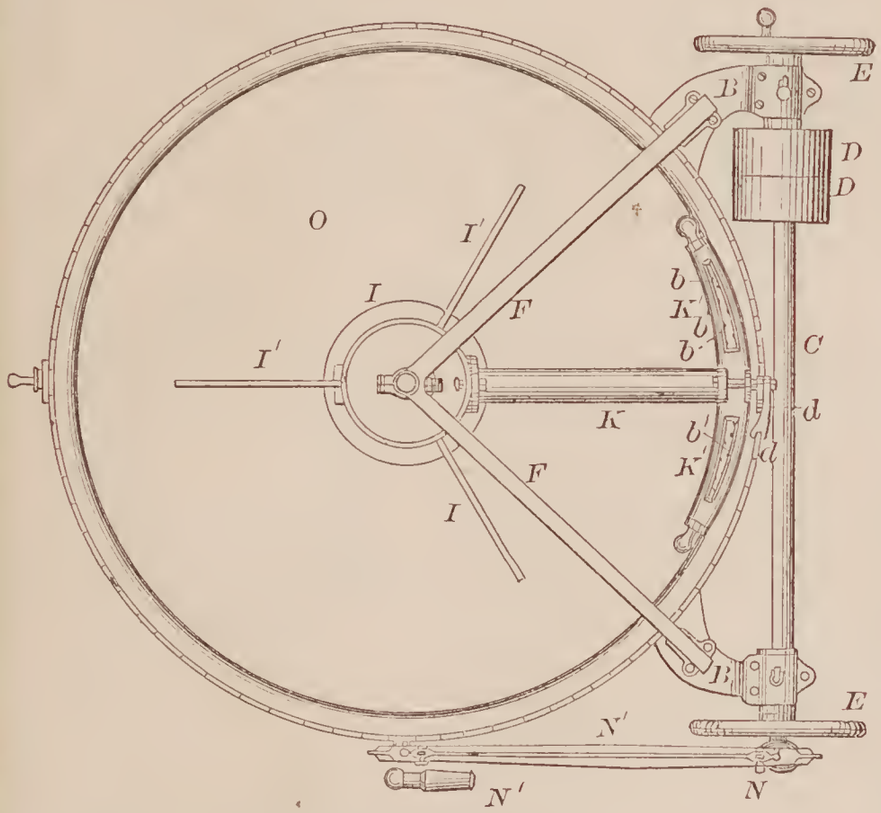


78088—L. Henderson—*Cotton Cultivator.*

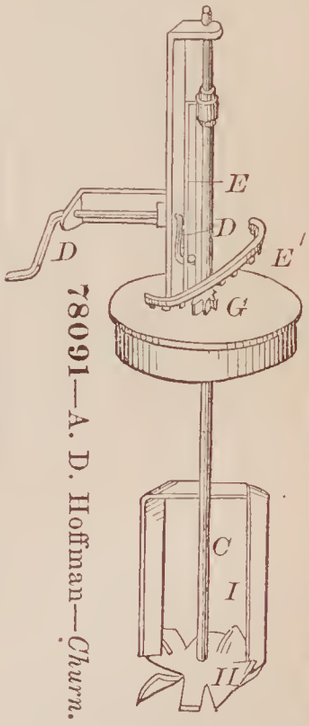


78089—J. Hendy—*Concentrator.*

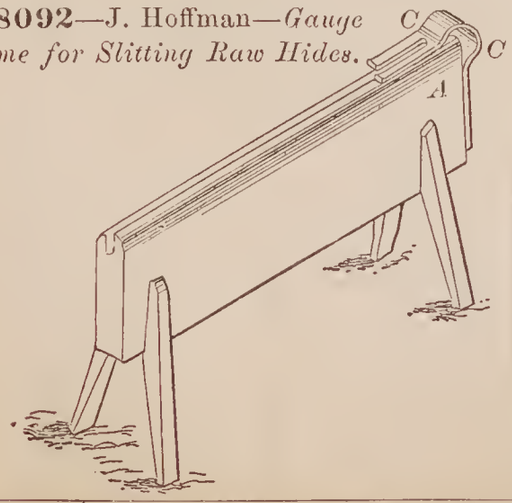




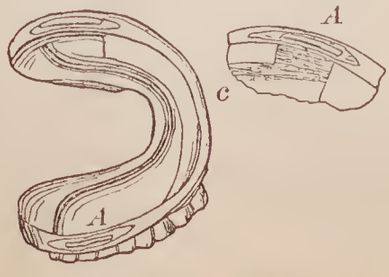
78091—A. D. Hoffman—*Churn.*



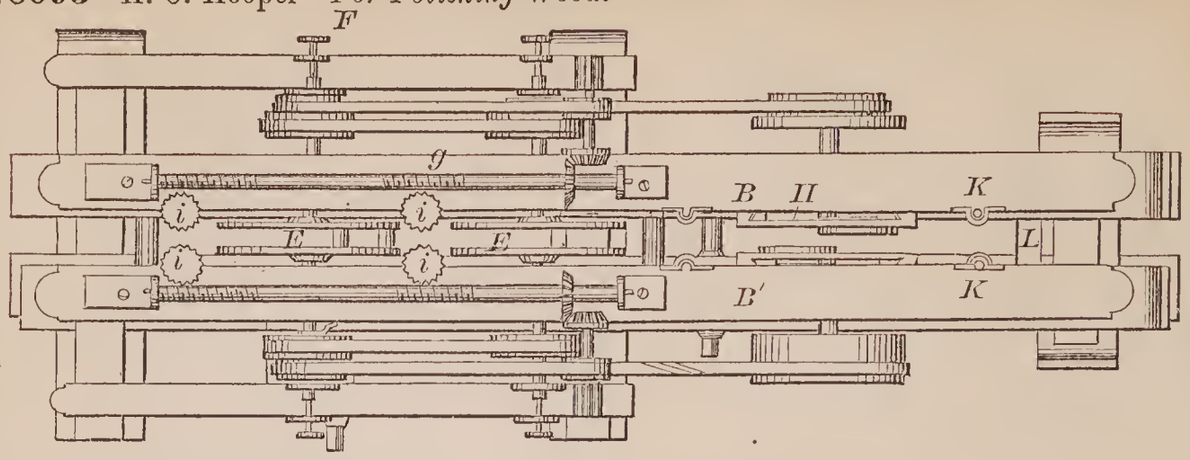
78092—J. Hoffman—*Gauge Frame for Slitting Raw Hides.*



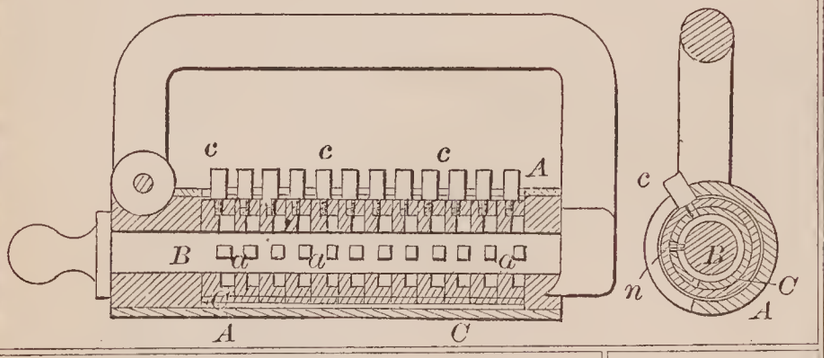
78094—I. A. Horn—*Plate for Artificial Teeth.*



78093—H. O. Hooper—*For Polishing Wood.*



78097—G. Kaiser—*Permutation Lock.*



78095—V. R. W. Horton—*Farm Gate*

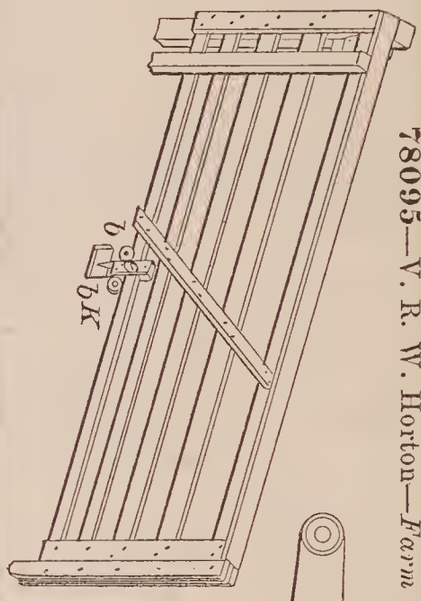


Fig. 3

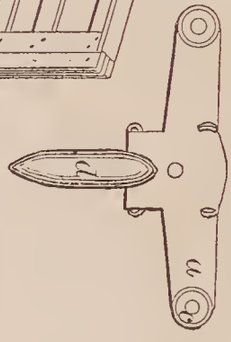
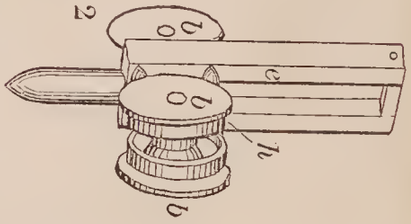
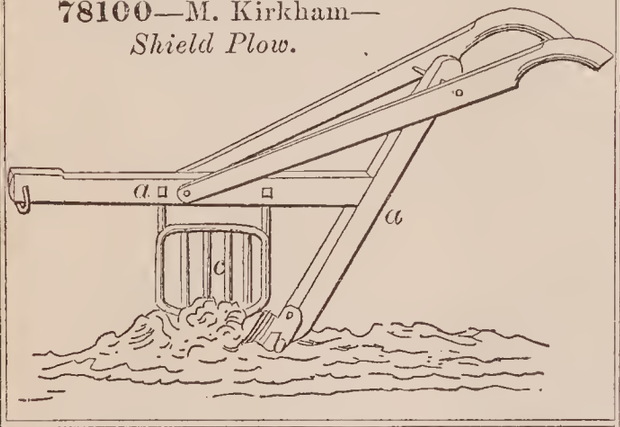


Fig. 2

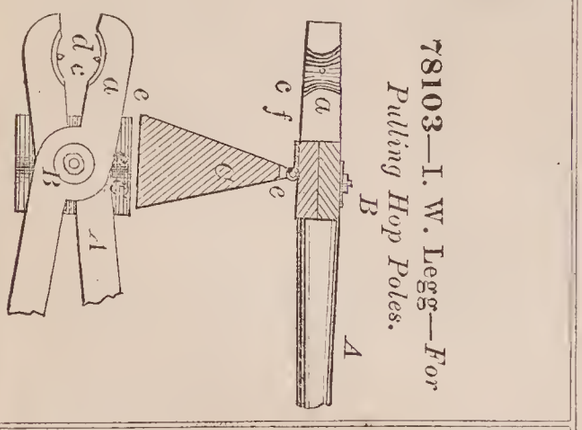


78100—M. Kirkham—*Shield Plow.*

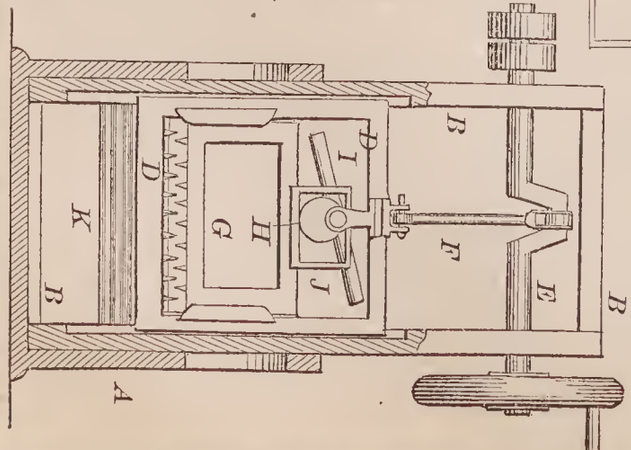


78098—J. F. Keeler—*Scale Beam.*

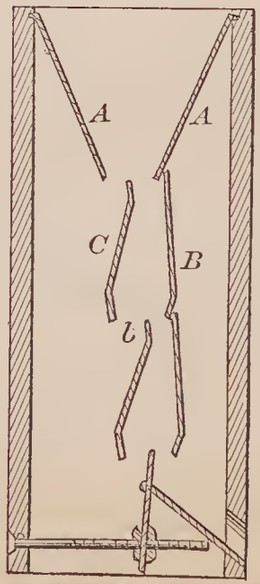
78103—I. W. Legg—*For Pulling Hop Poles.*



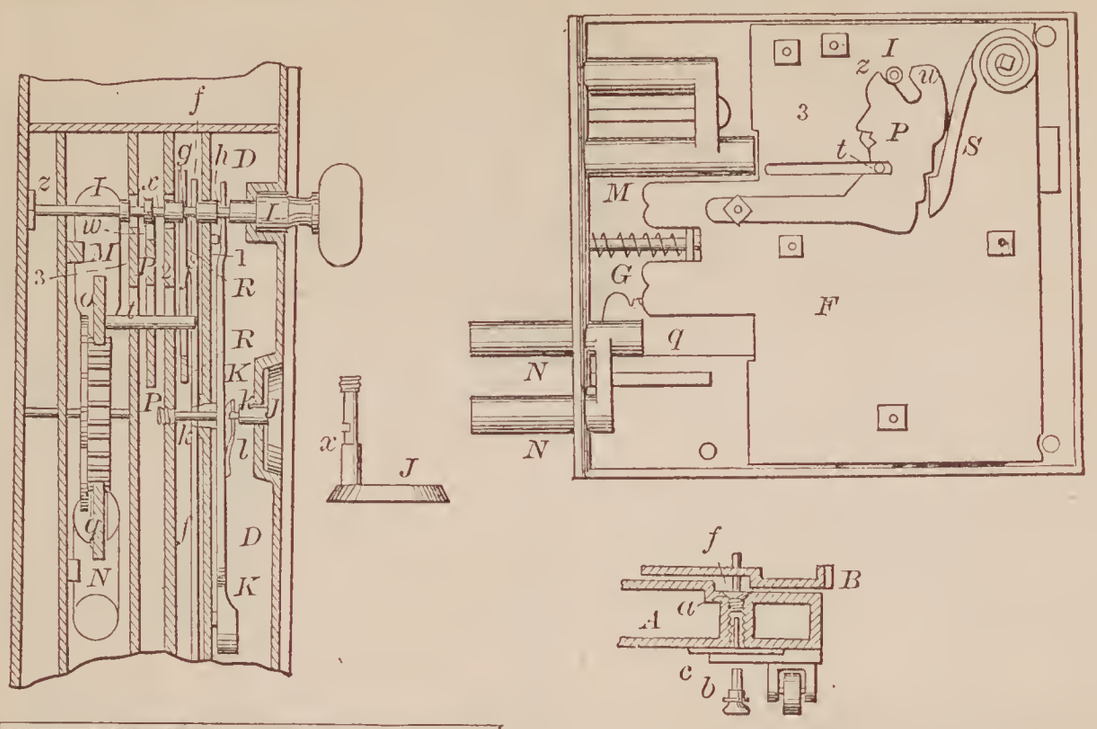
78102—L. F. Lannay—*For Washing Bristles*

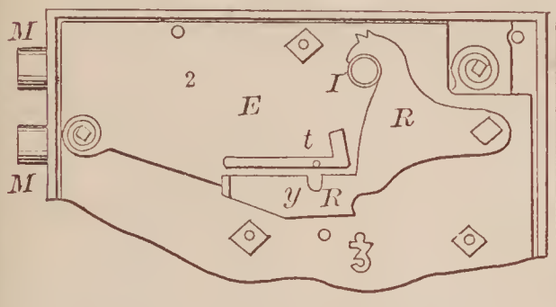


78099—C. F. Keller—*For Taking Toll in Grist Mills.*

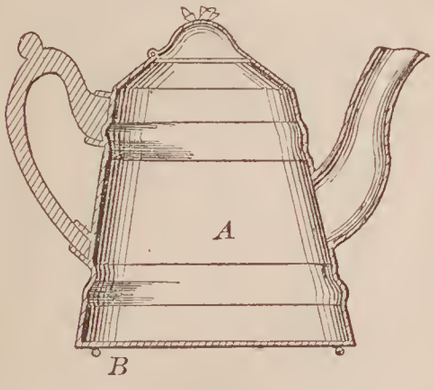


78101—J. G. Kriechbaum—*Safe Door Lock.*

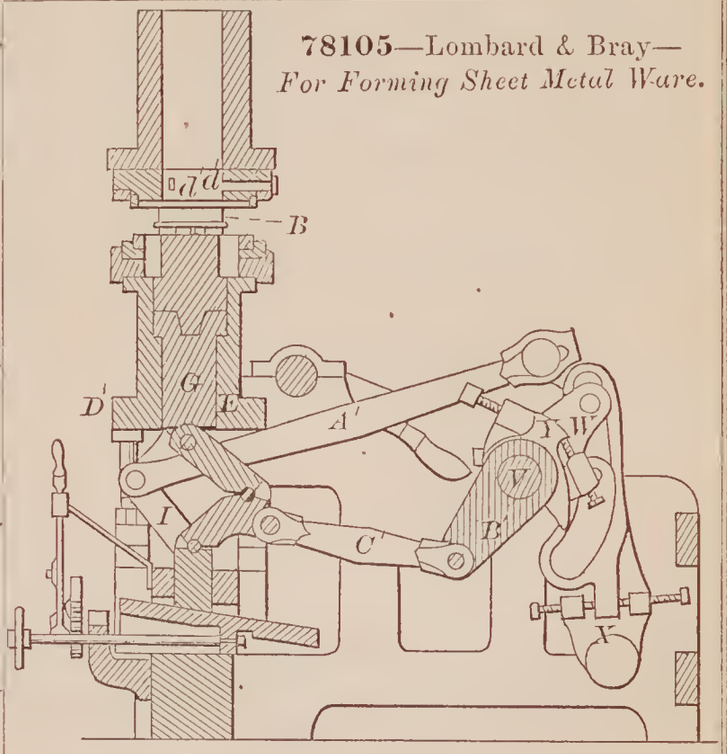




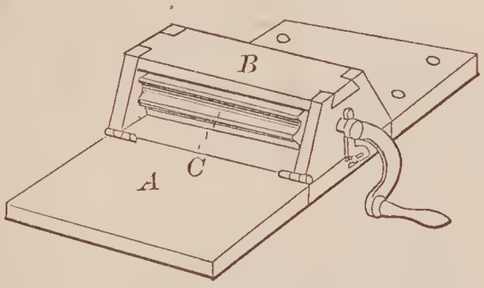
78104—L. Lehmann—*Tin Ware.*



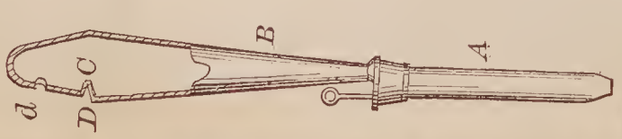
78105—Lombard & Bray—*For Forming Sheet Metal Ware.*



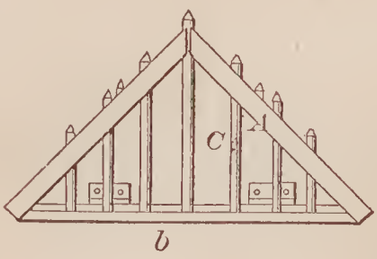
78106—S. H. Lombard—*Dough Kneader.*

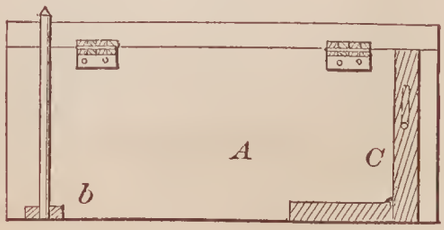


78107—J. Lorenz—*Organ Pipe.*

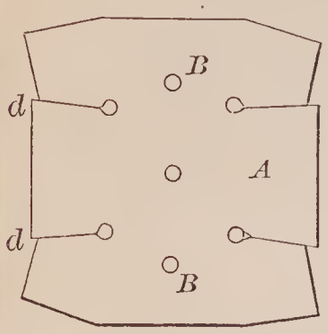


78109—J. H. Mabbett—*Chicken Coop.*

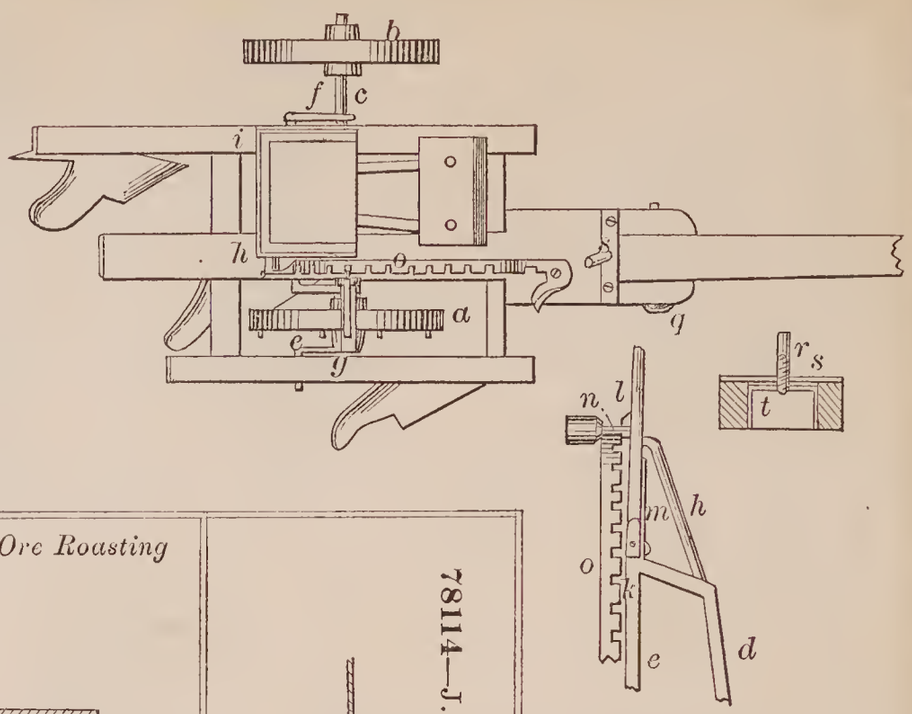




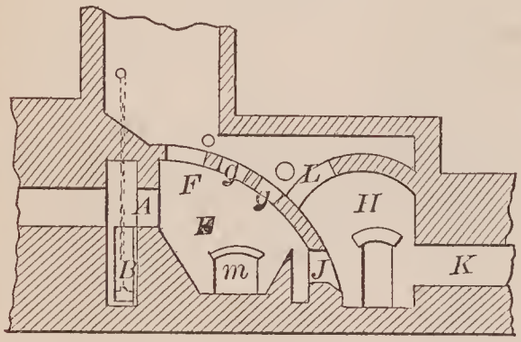
78110—O. Macdaniel—*Fruit Basket.*



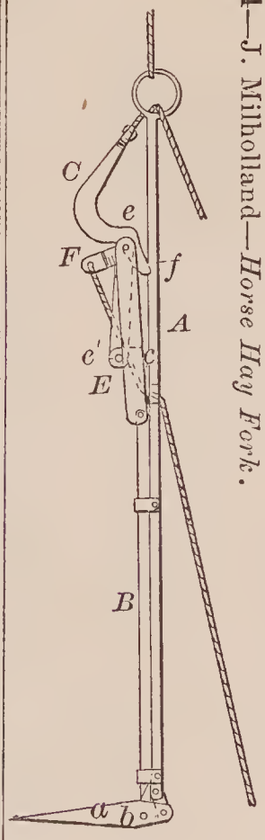
78111—G. W. Manuel—*Gang Plow.*



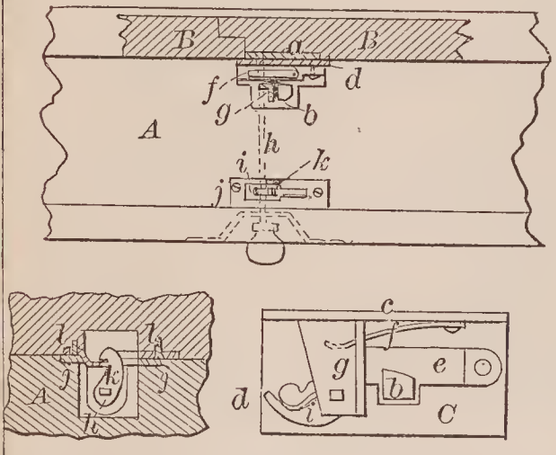
78113—C. Mellinger—*Ore Roasting Furnace.*



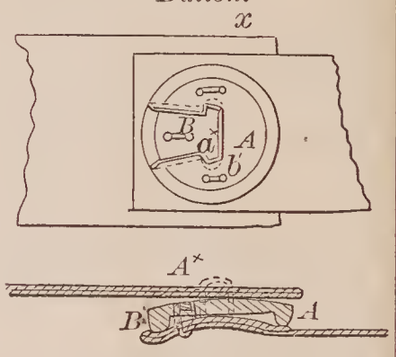
78114—J. Millholland—*Horse Hay Fork.*



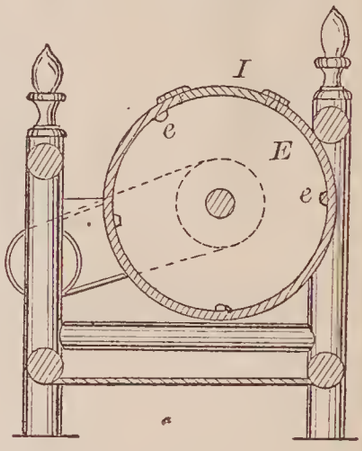
78115—W. J. Miller—*Sash and Shutter Fastening.*



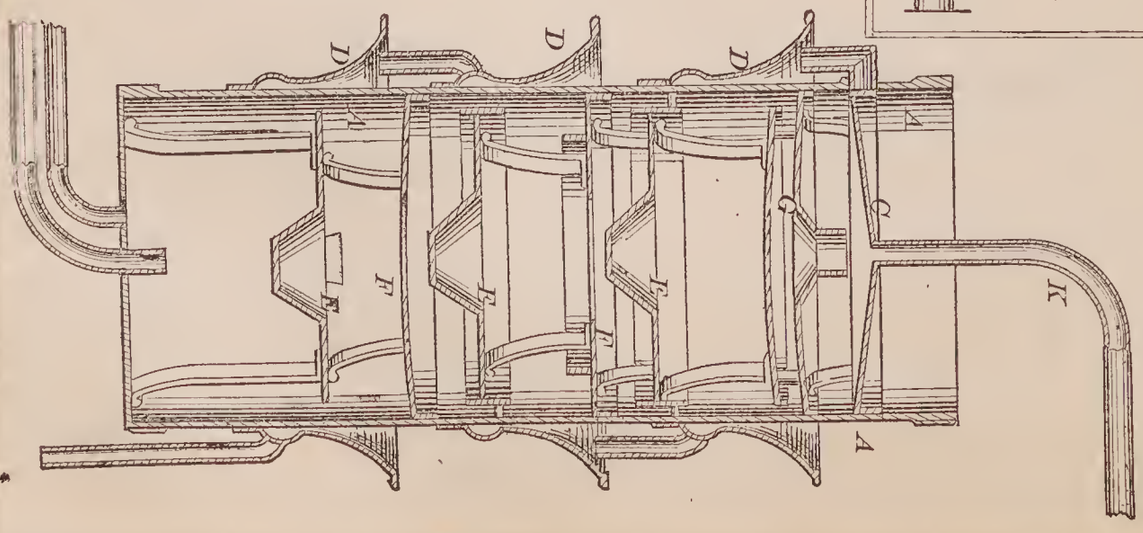
78116—M. D. Moore—*Button.*



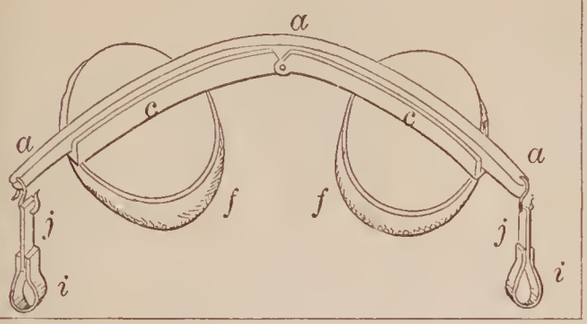
78117—E. R. Morrison—*For Casing Tobacco.*



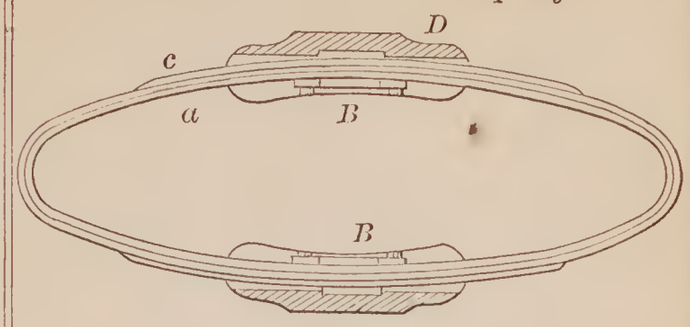
78118—Müller & Stock—*Doubler for Stills.*



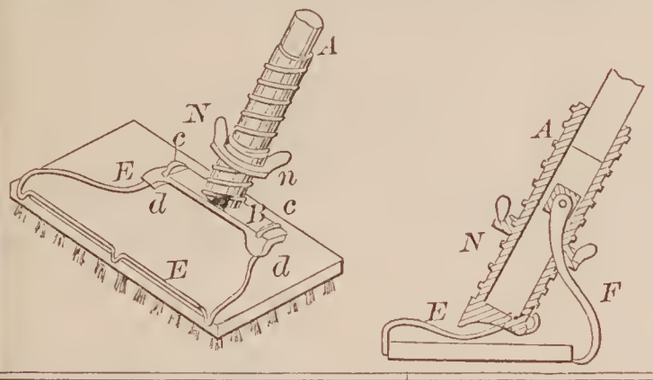
78119—B. T. Nichols— *Cart Saddle.*



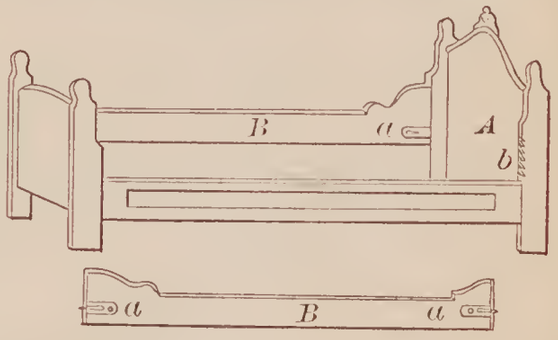
78120—W. R. Nichols—*Car Spring.*



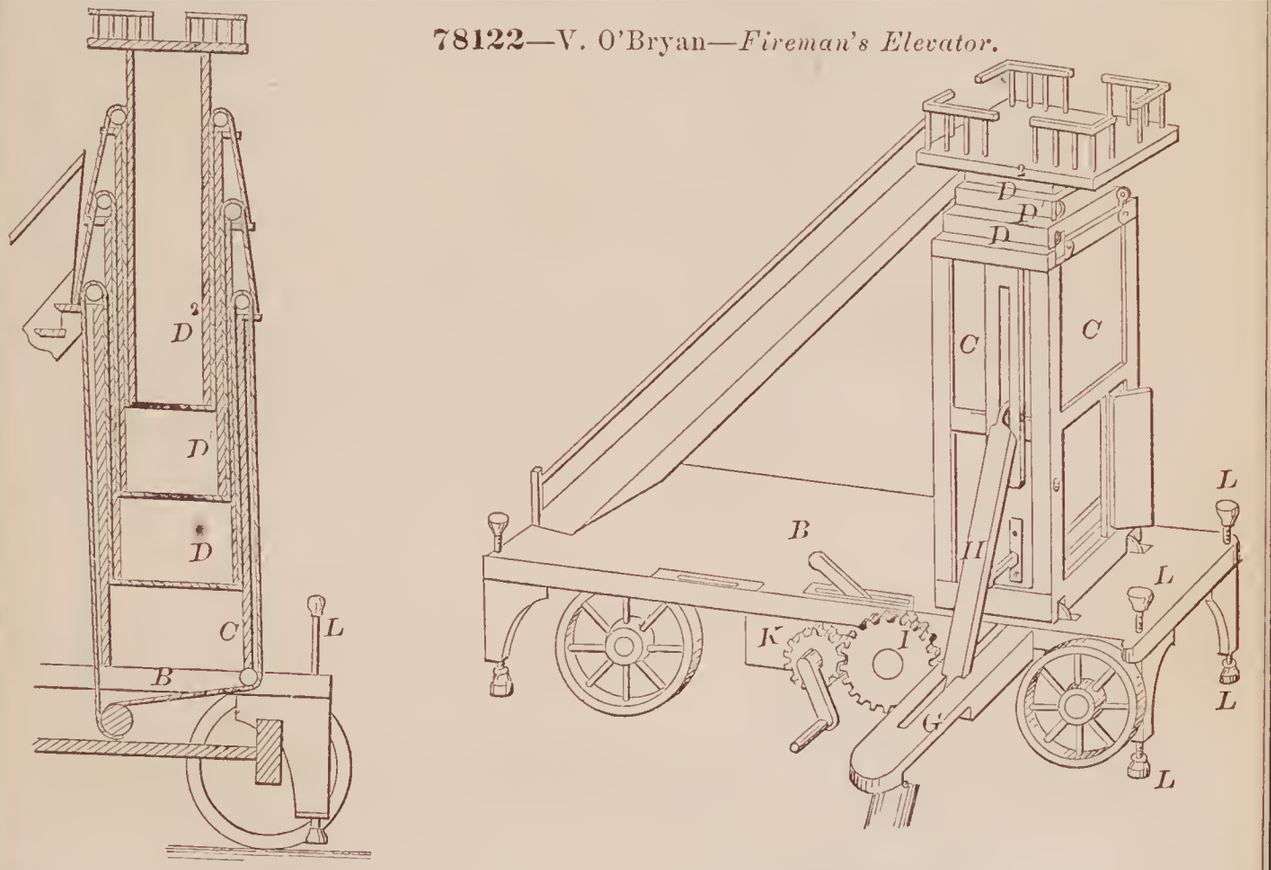
78121—P. O'Brian—*Scrubbing Brush Holder.*



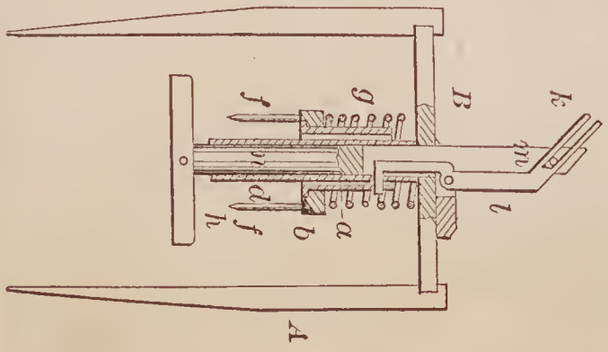
78123—G. T. Palmer—*Crib and Bedstead.*



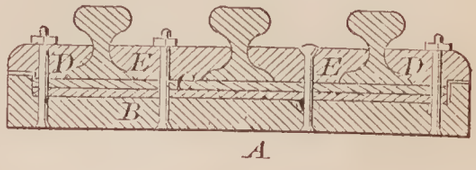
78122—V. O'Bryan—*Fireman's Elevator.*



78128—C. Polley—*Mole Trap.*

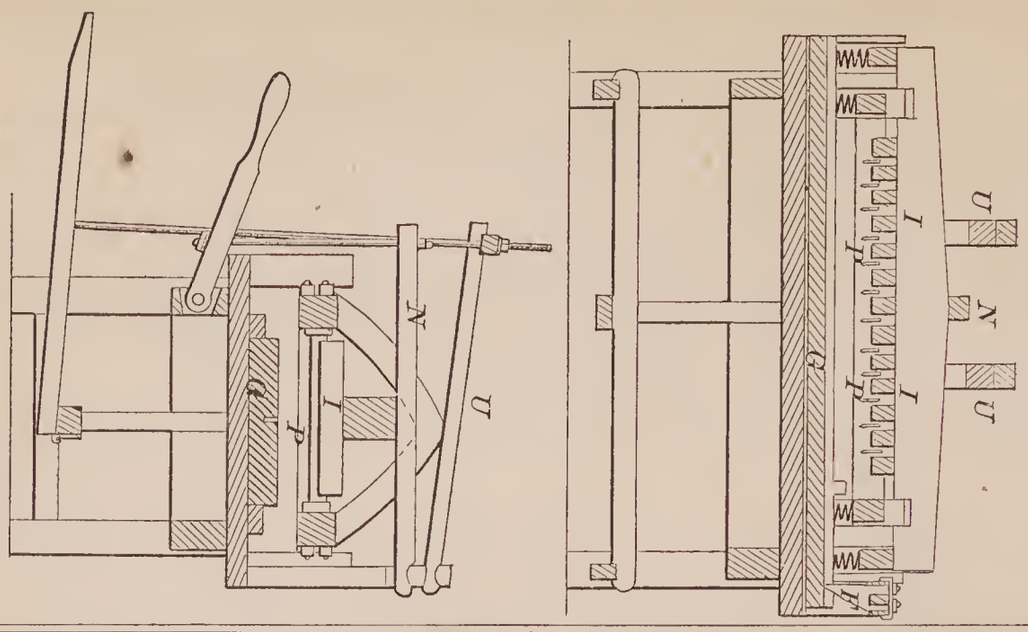


78126—A. Philippi—*Railway Switch Plate.*

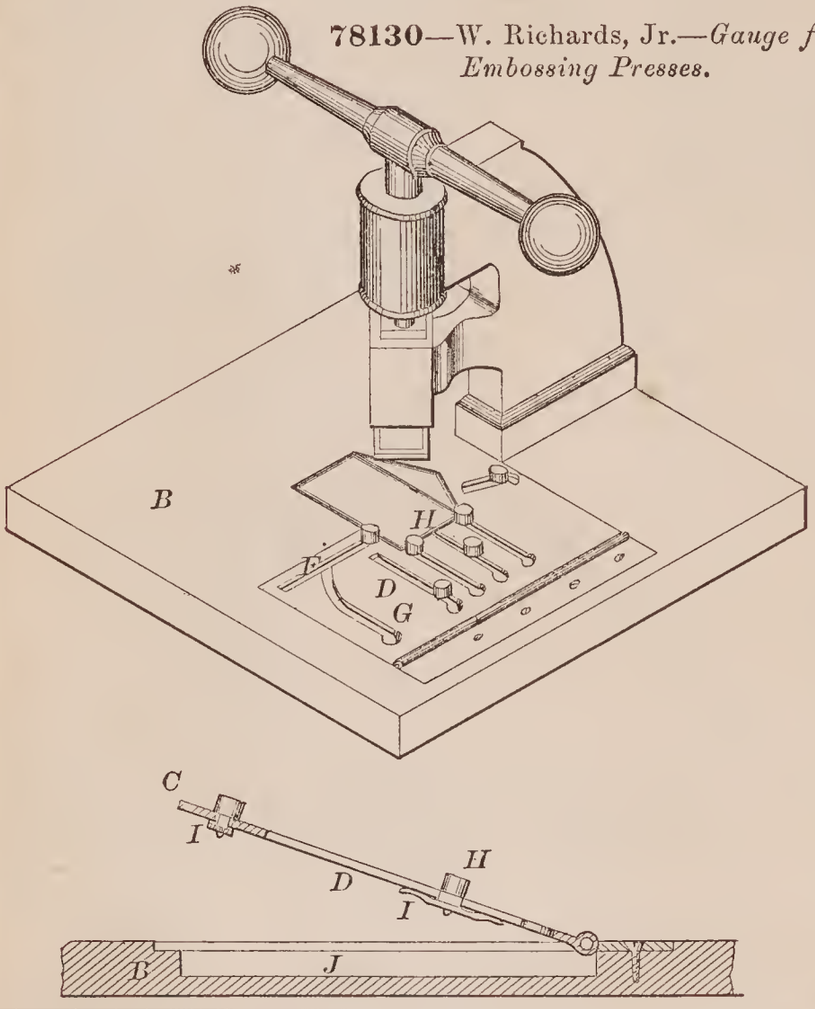


78124—C. B. Payne—*Harness Buckle.*

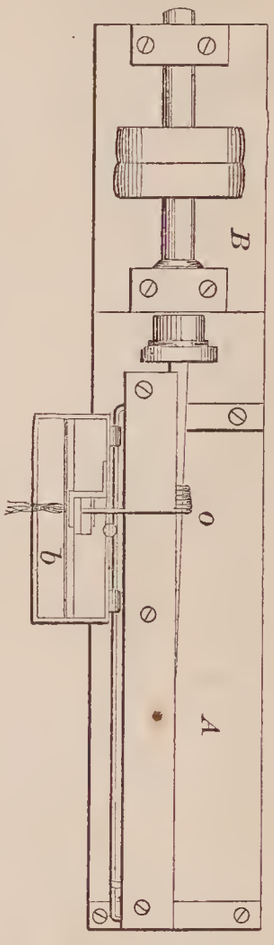
78127—J. S. Pierson—*For Cutting and Stamping Soap.*



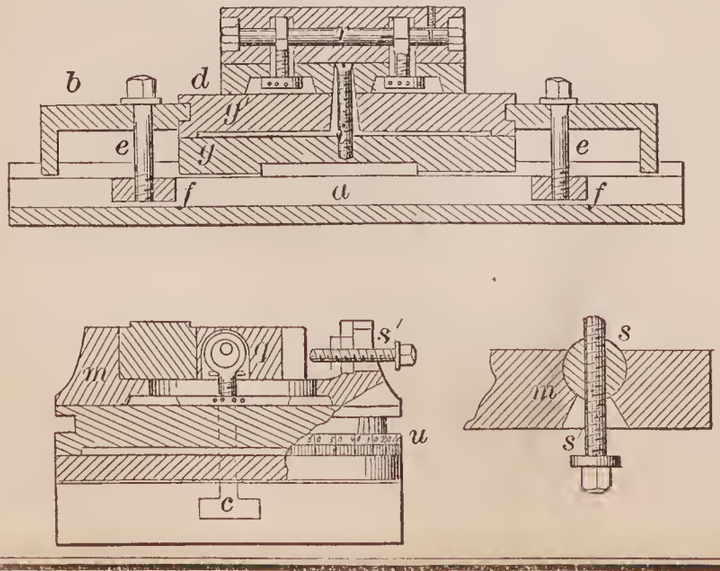
78130—W. Richards, Jr.—*Gauge for Embossing Presses.*



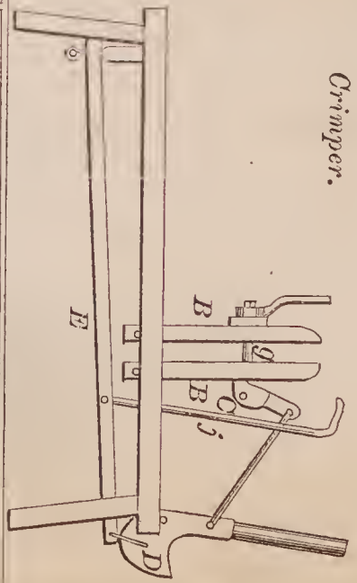
78129—A. C. Rand—*Covering Whips.*



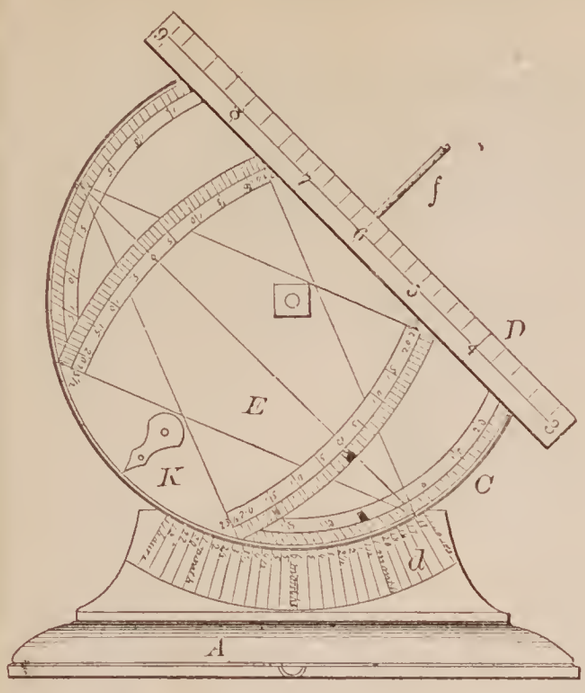
78132—C. H. Riggs—*Planer Chuck.*

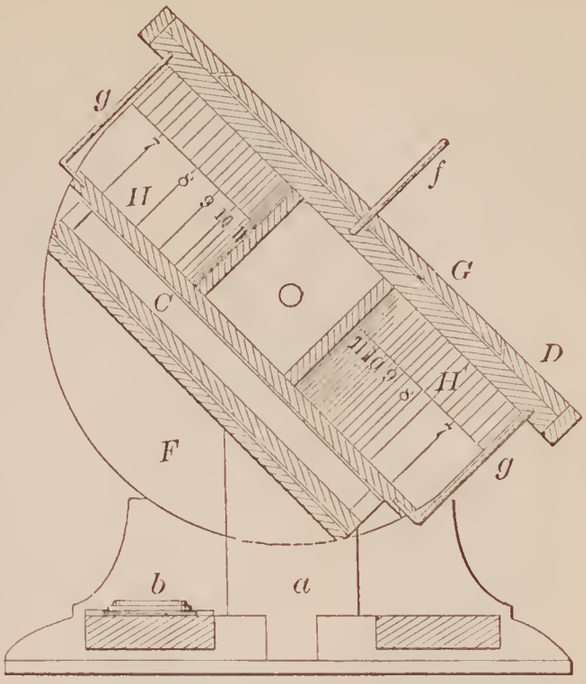


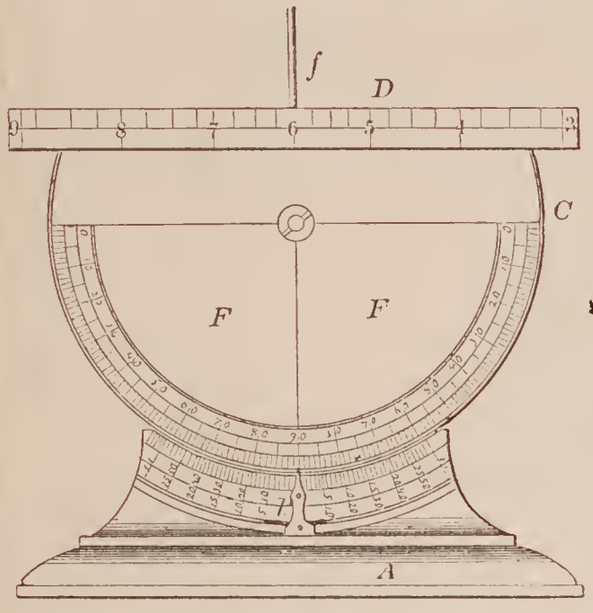
78131—Richmond & McFarland—*Boot Crimper.*



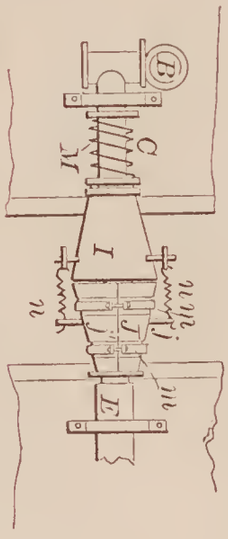
78133—C. F. L. Risch—*Heliometer.*

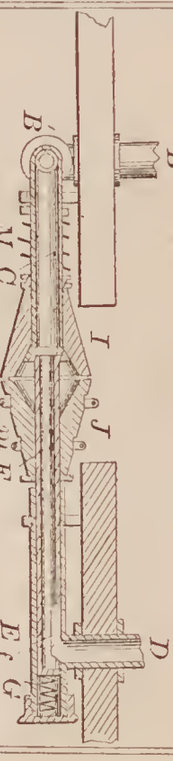




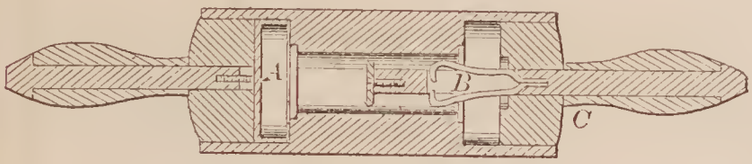


78134—H. R. Robbins—*Steam Pipe Coupling for Railroad Car Heaters.*

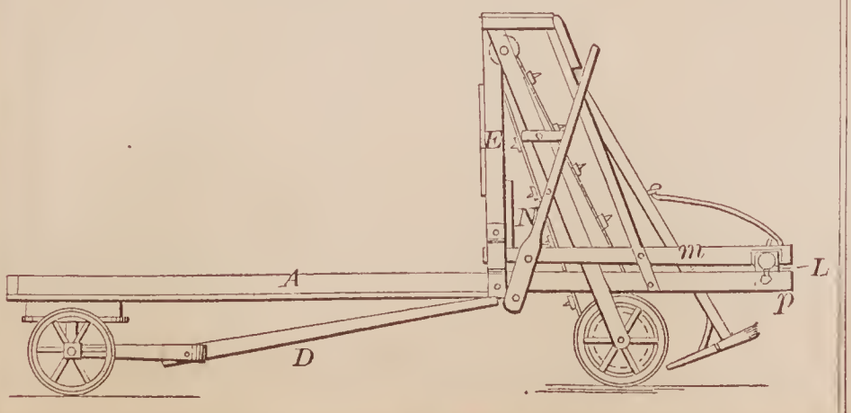




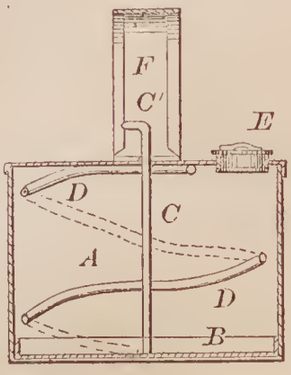
78135—A. J. Roof—*Rolling Pin.*



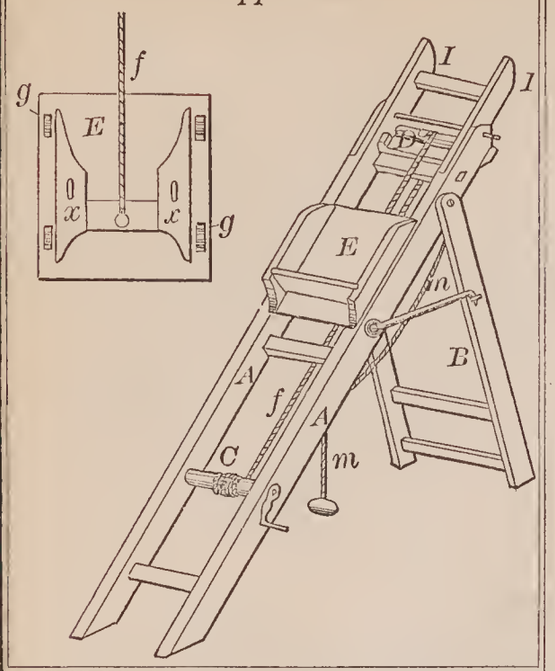
78136—Ruhl & Herrington—*Hay Raker and Loader.*



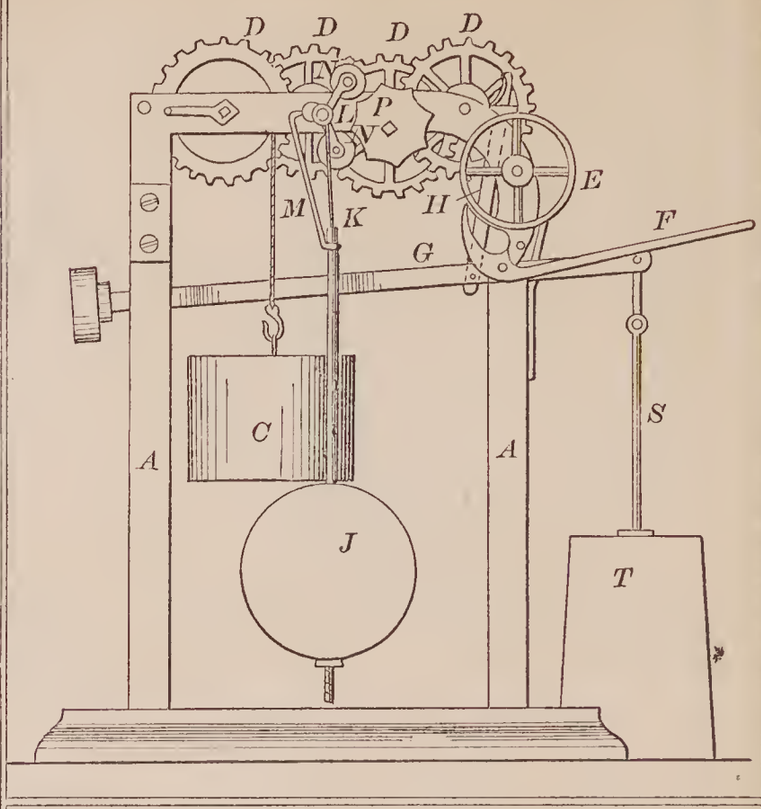
78137—G. O. Sanderson—*Cake Cutter.*



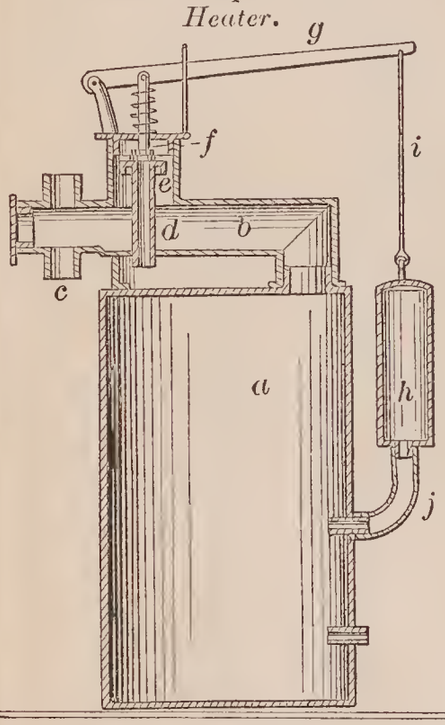
78138—J. Sanderson—*Hoisting Apparatus.*



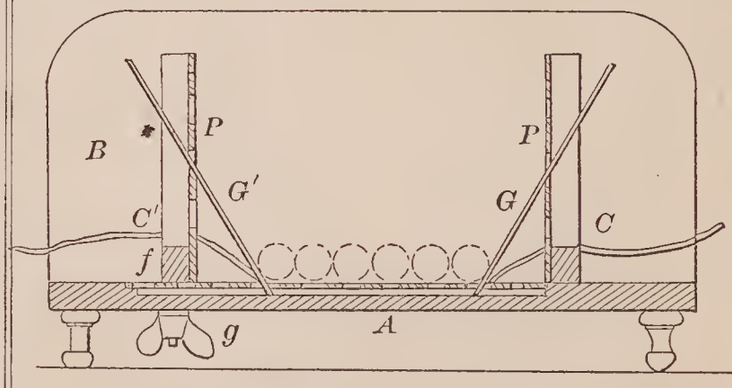
78139—L. Scott—*Churn.*



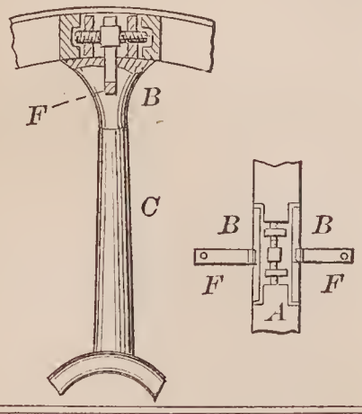
78140—T. Shipton—*Feed Water Heater.*



78142—C. A. Siecke—*For Bundling Cigars.*

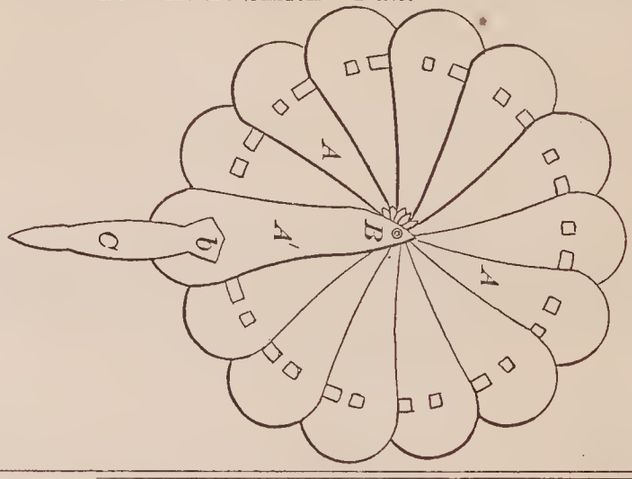


78141—S. Shirley—*Tire Tightener.*

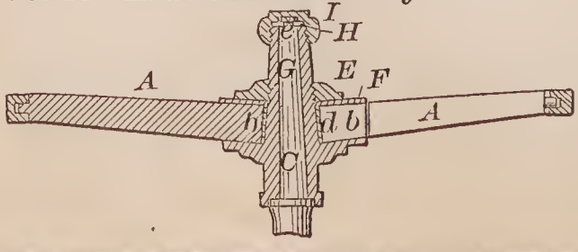


78145—H. B. Smith—*Fan.*

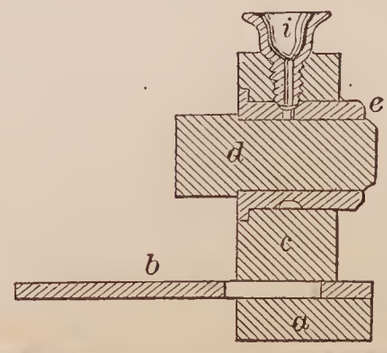
78145—H. B. Smith—*Fan.*



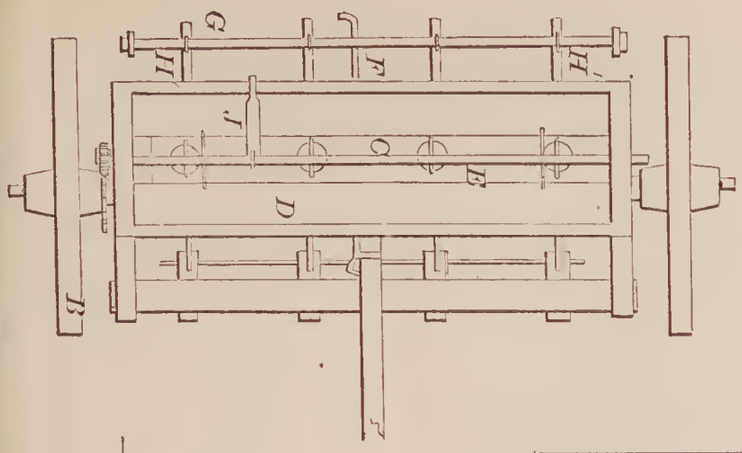
78143—A. B. Smith—*Carriage Wheel.*

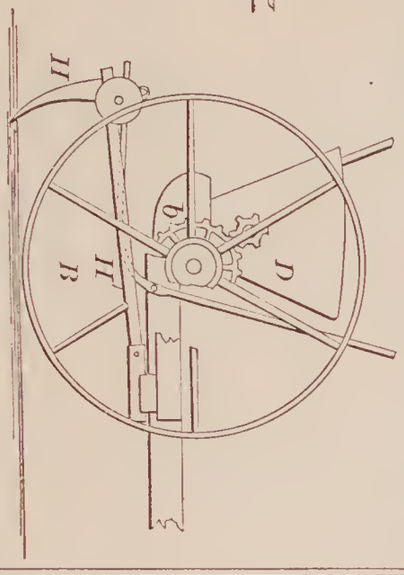


78144—E. H. & H. G. Smith—*Harvester.*

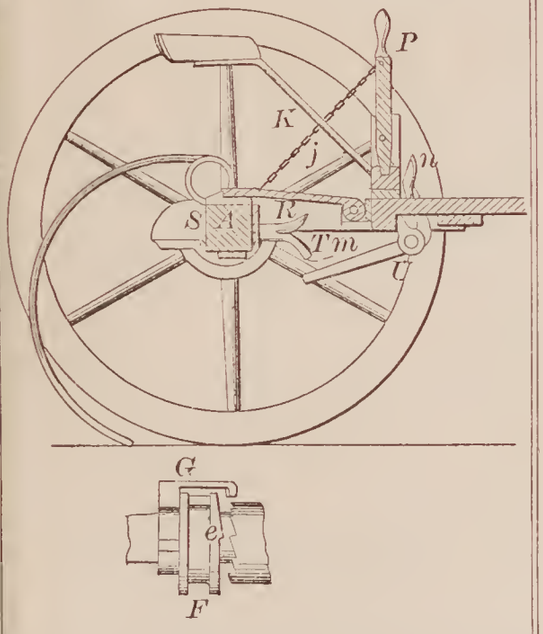


78146—M. D. Smith—*Seeder and Cultivator.*

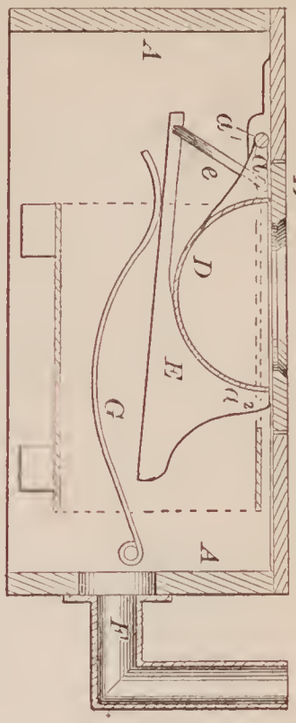


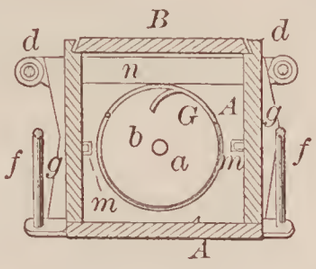


78147—M. Smith—*Horse Rake.*

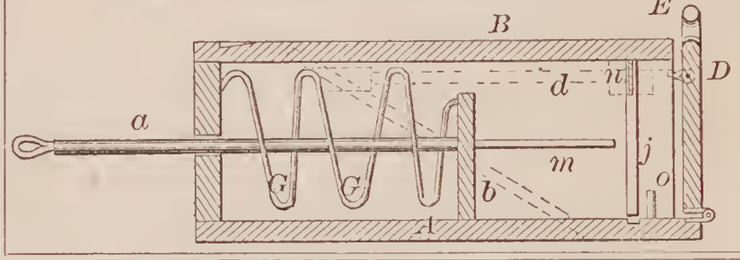


78148—W. Sprague—*Water Closet.*

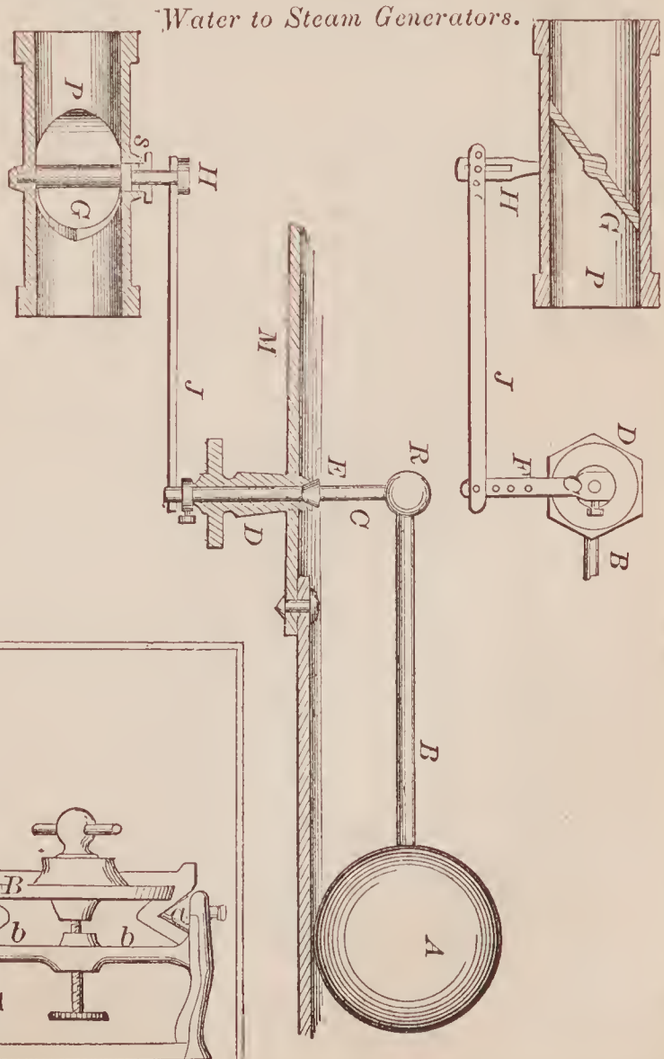




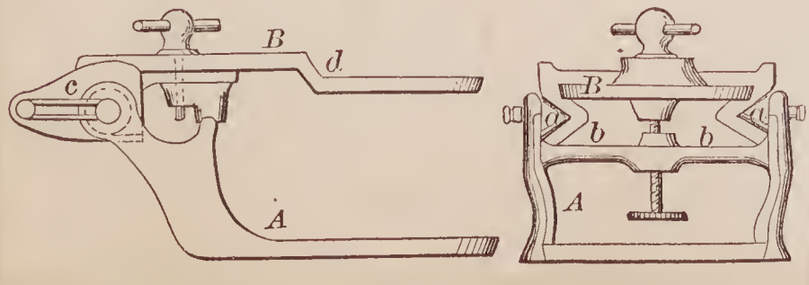
78149—G. Stackhouse—*Vegetable Cutter.*



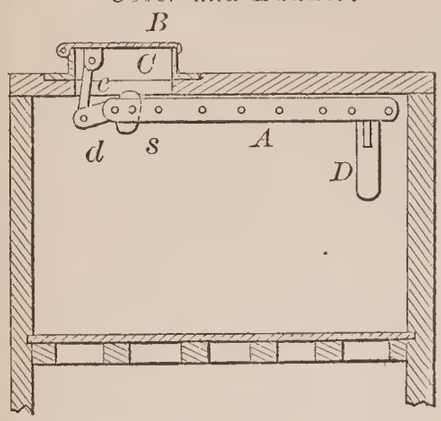
78150—Stafford & Leforgee—*For Regulating Water to Steam Generators.*



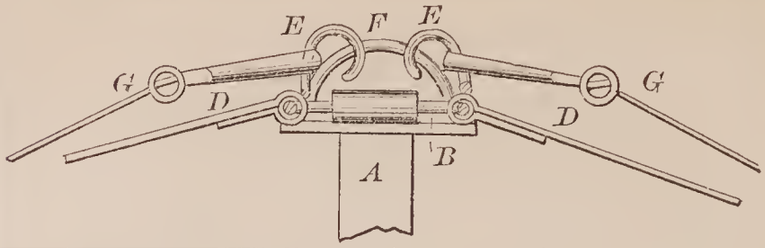
78151—E. T. Starr—*Articulator.*



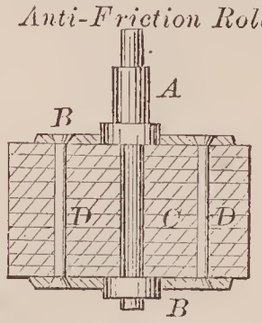
78152—J. Steger—*Scuttle Cover and Ladder.*



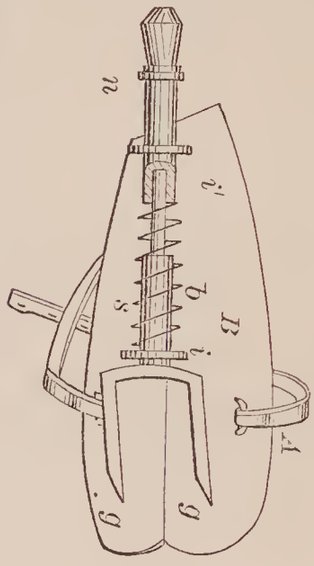
78154—S. Stout—*Trace Holder.*



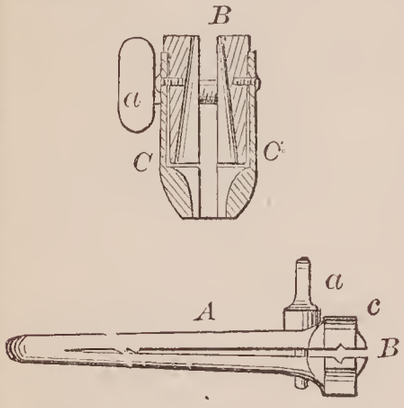
78153—F. A. Sterry—*Anti-Friction Roll.*



78155—M. H. Sullivan—*Cribbing Preventer.*

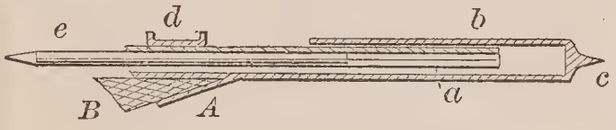


78157—I. C. Tate—*Bit Brace.*

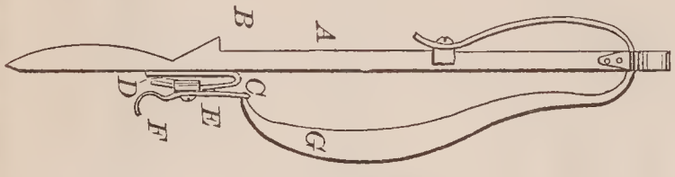


78156—W. Swan—*Ornamenting Fabrics.*

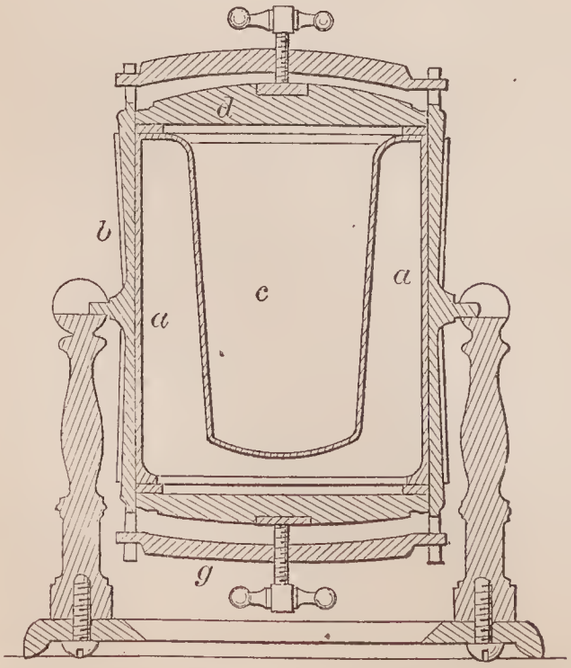
78158—E. J. Toof—*Pencil Holder.*



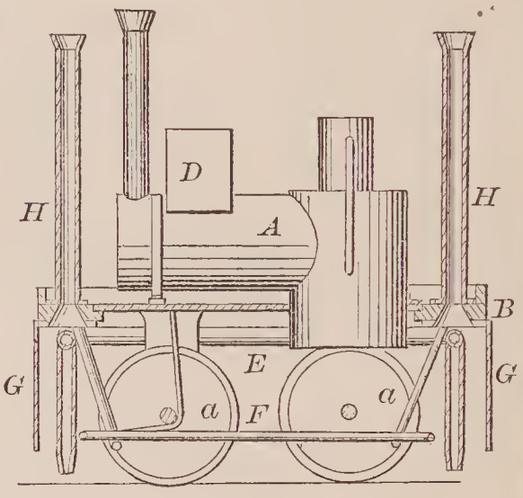
78160—J. J. Wait—*Lamp Chimney Cleaner.*

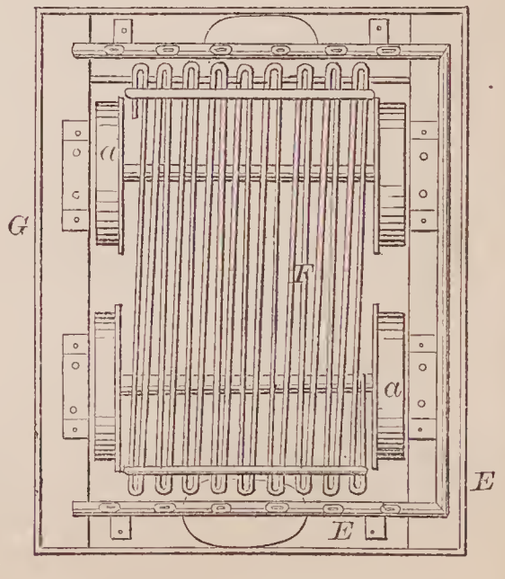


78159—J. Baptiste—*Freezing Apparatus.*

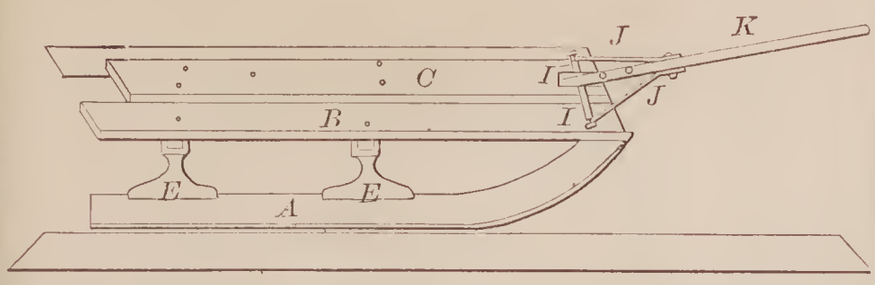


78161—W. Y. Warner—*Snow Plow.*

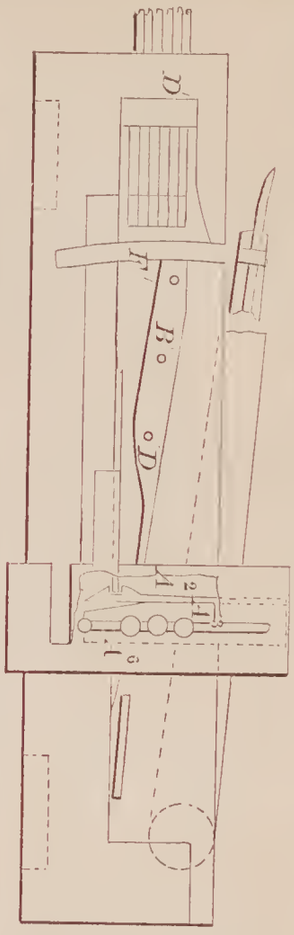




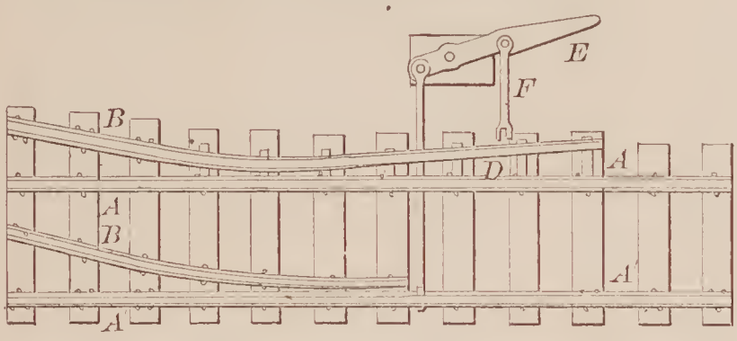
78162—S Way—*Sled.*



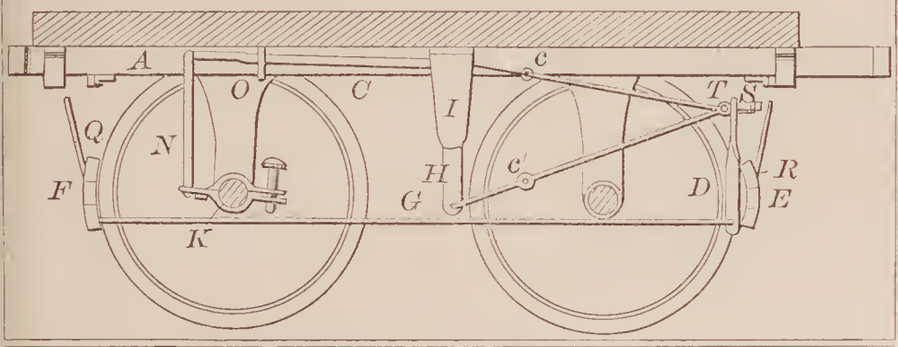
78163—W. Webster—*Weaving Pile Fabrics.*



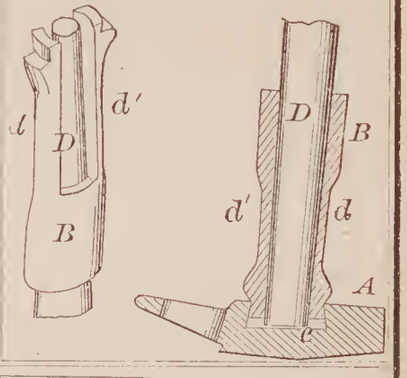
78165—W. Wharton, Jr.—*Railroad Switch.*



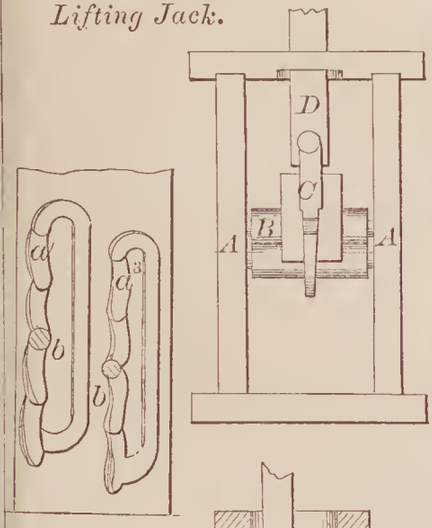
78166—T. J. Whitney—*Car Brake.*

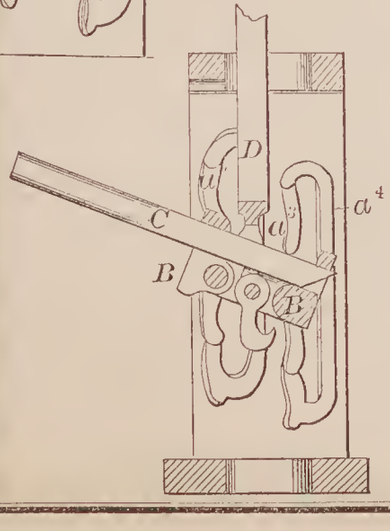


78164—D. Weiser—*Hammer Handle.*

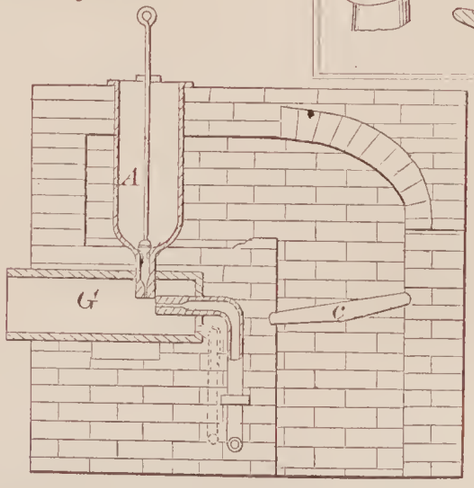


78167—J Wilkinson—*Lifting Jack.*

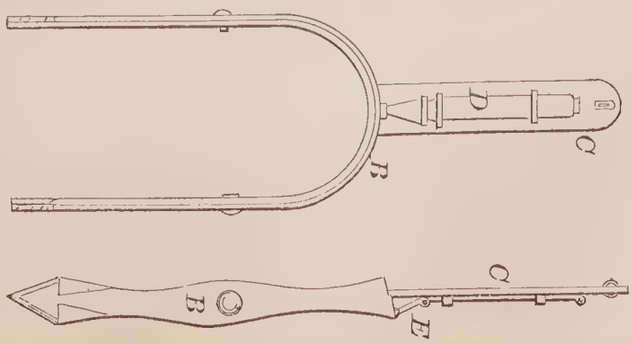




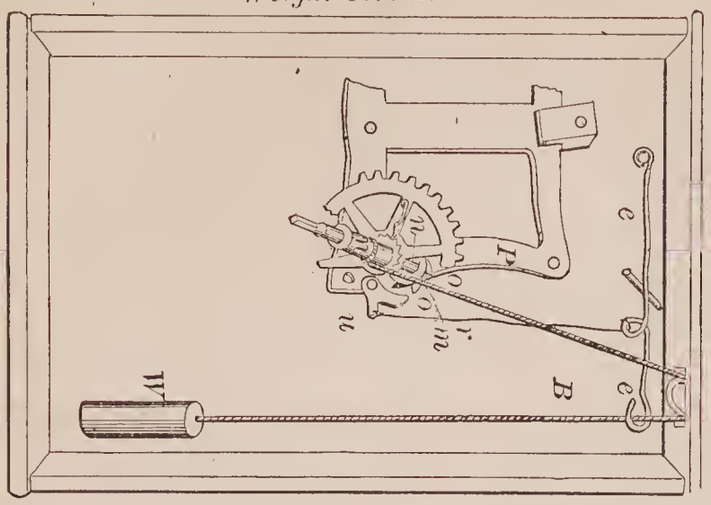
78168—Willard & Adams—*Treating Metals.*



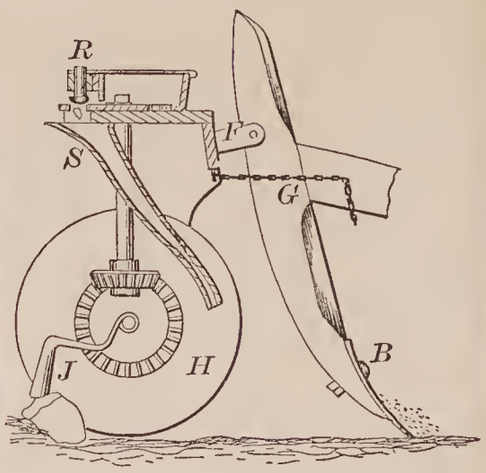
78169—L. Woodworth—*Horse Hay Fork.*



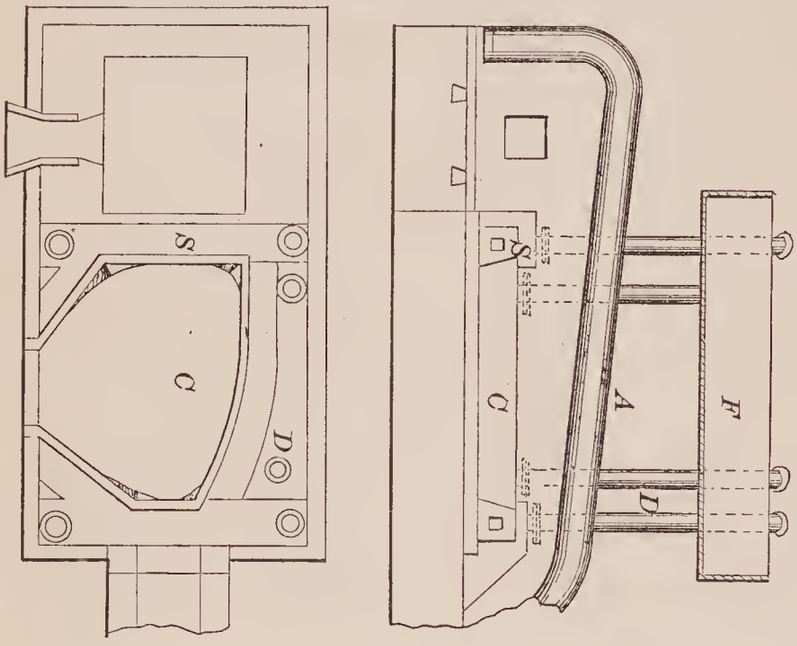
78170—O. H. Woodworth—*Winding Stop for Weight Clocks.*



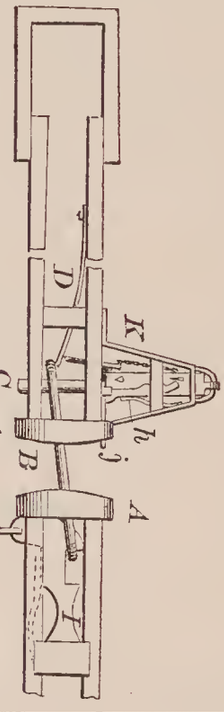
78171—Wright & Penny—*Corn Planter.*



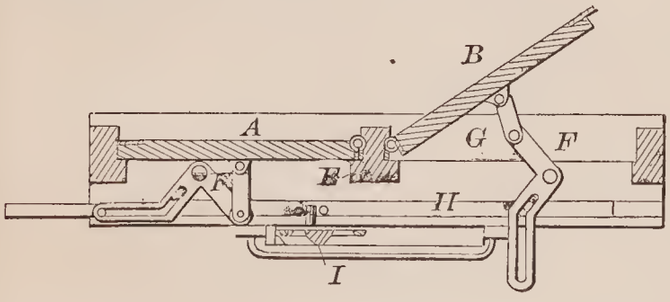
78172—J. Zimmer—*Furnace for Puddling Iron.*



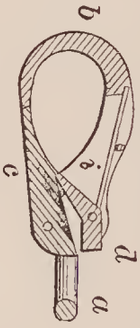
78173—J. W. Adams—*Car Coupling.*



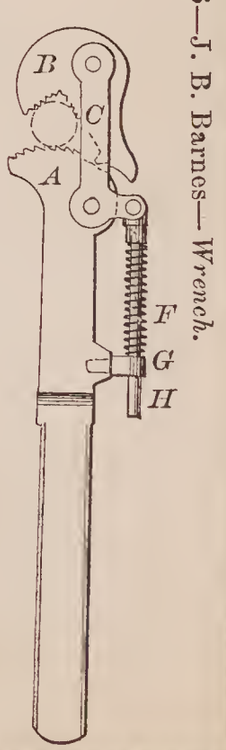
78174—M. C. Andrews—*Car Ventilator.*

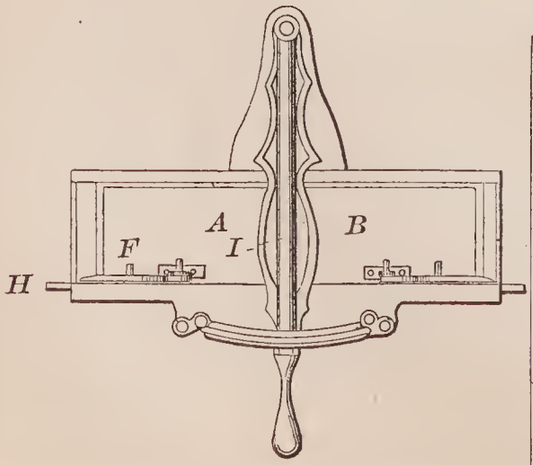


78175—W. F. Arnold—*Lock Snap Hook.*

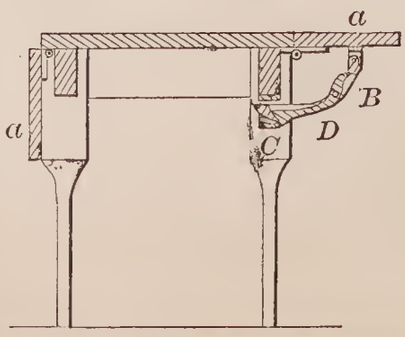


78176—J. B. Barnes—*Wrench.*

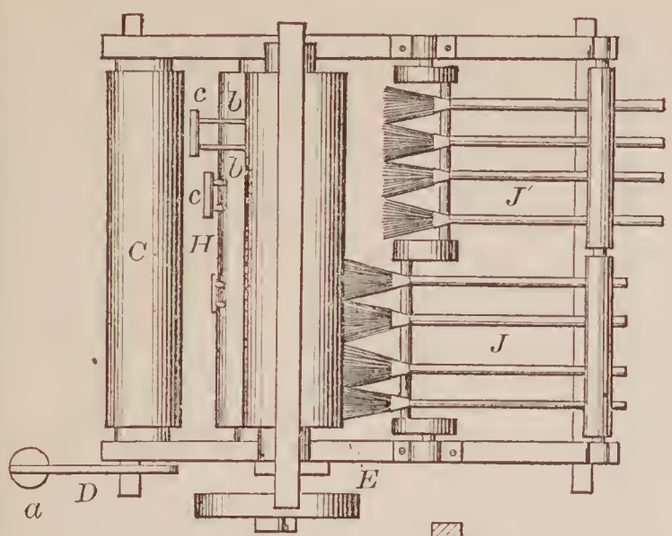


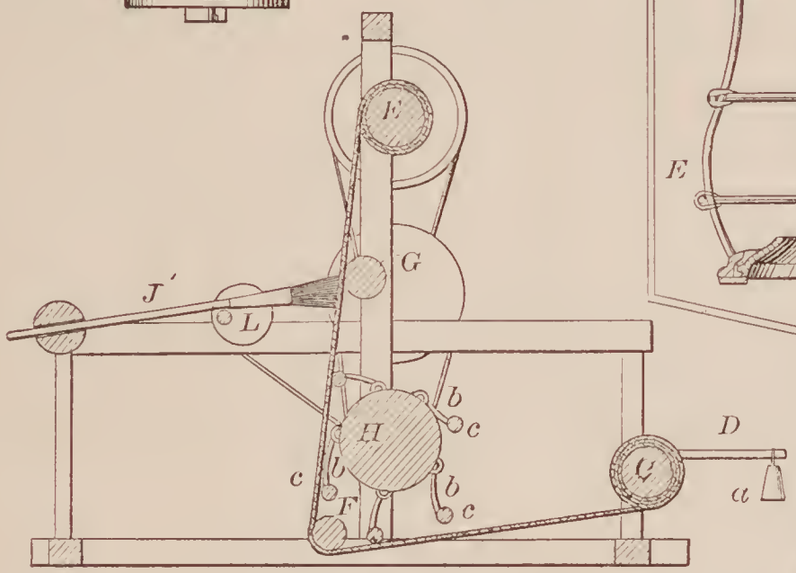


78177—E. E Berry—*Table Leaf Support.*

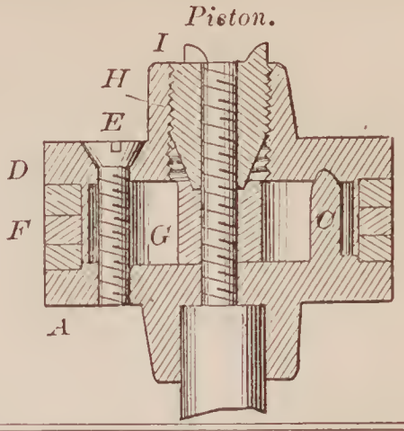


78178—G. W. Bishop—*Carpet Cleaning Machine.*

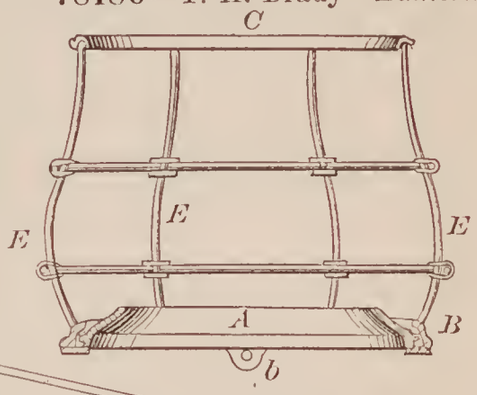




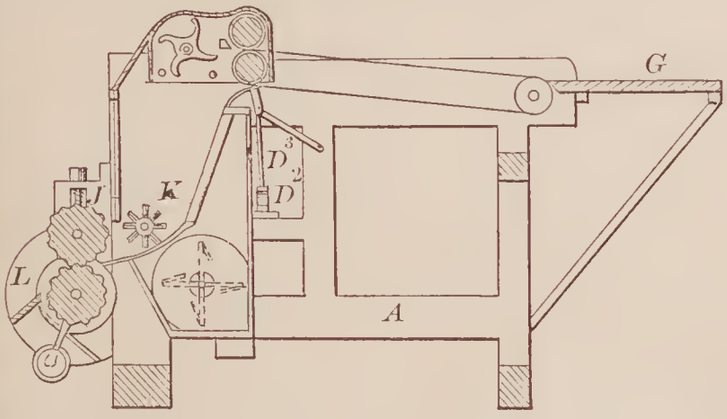
78179—C. Bollinger—*Steam Engine Piston.*



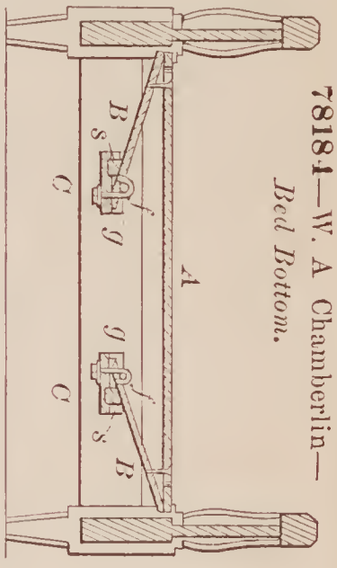
78180—T. H. Brady—*Lantern.*



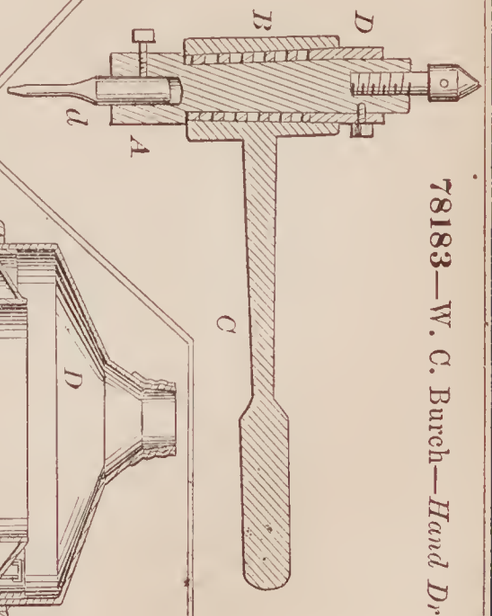
78181—C. Brown—*Straw Cutting Machine.*



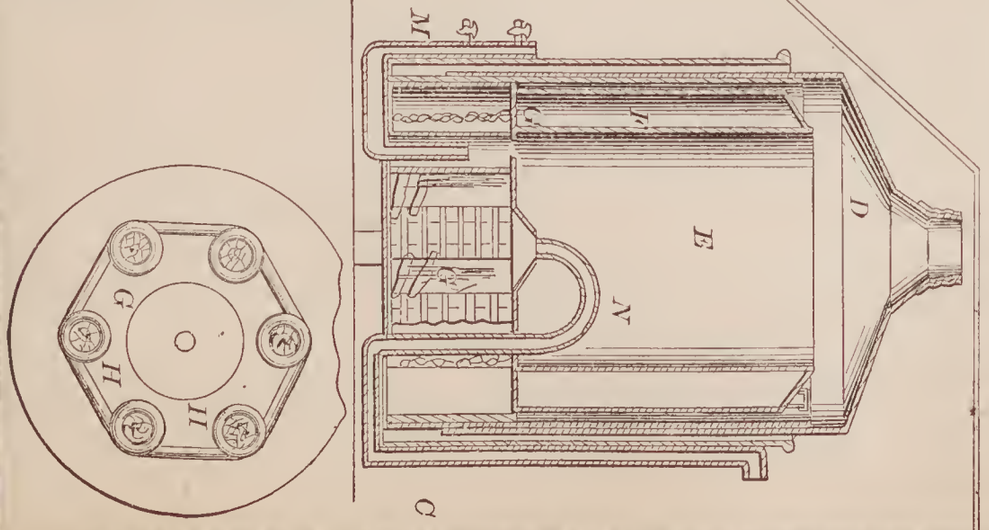
78184—W. A Chamberlin—*Bed Bottom.*



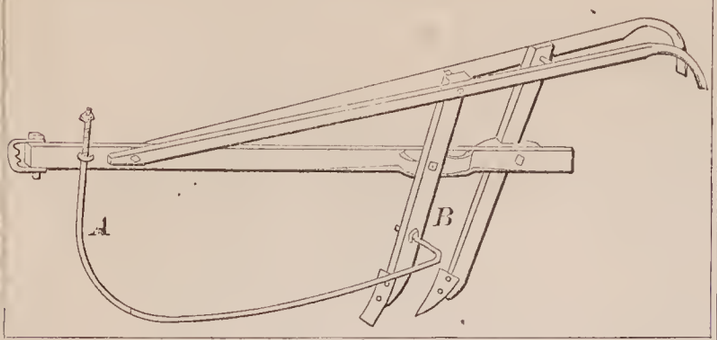
78183—W. C. Burch—*Hand Drill.*



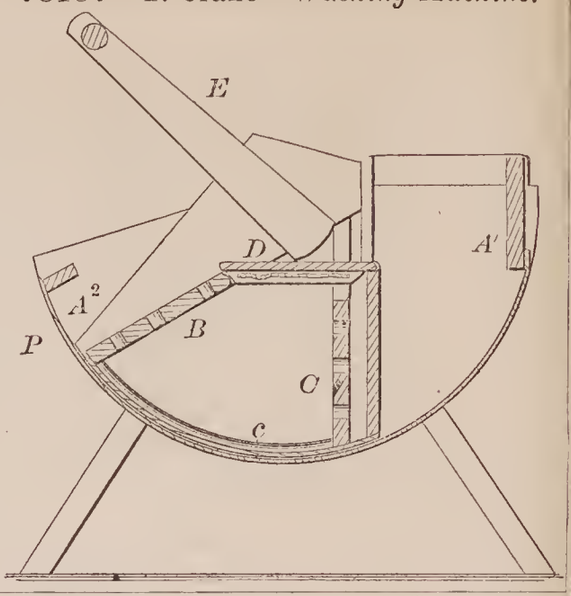
78185—C. H. Childs—*Gas Apparatus.*

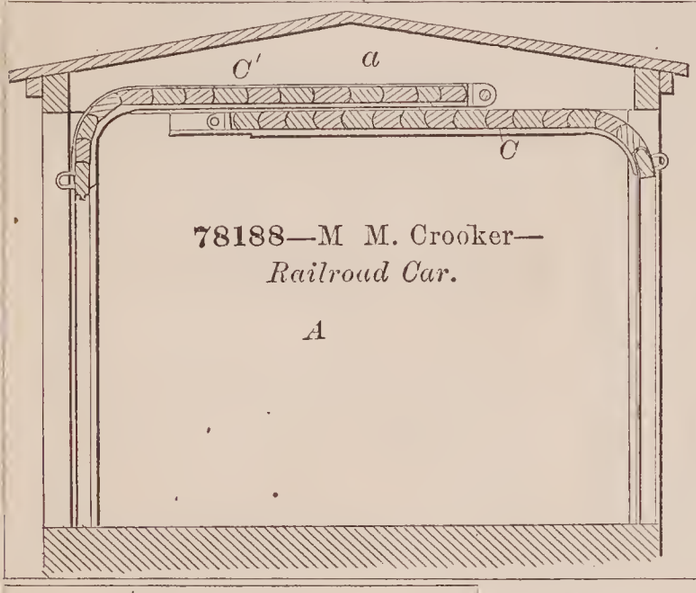


78186—C A. Cogswell—*Cultivator.*



78187—T. Crane—*Washing Machine.*

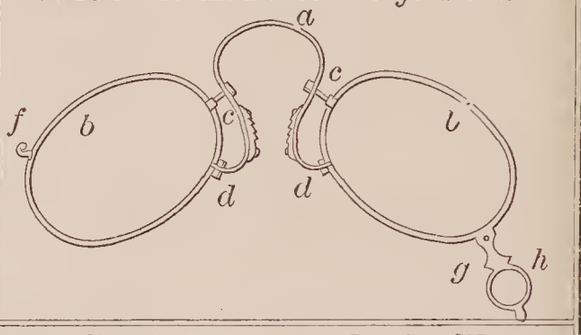


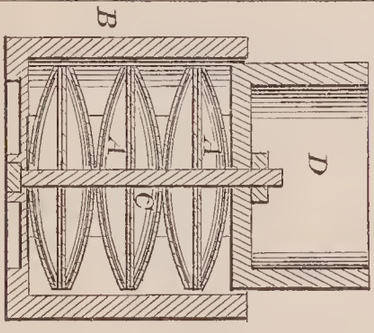


78188—M M. Crooker—
Railroad Car.

A

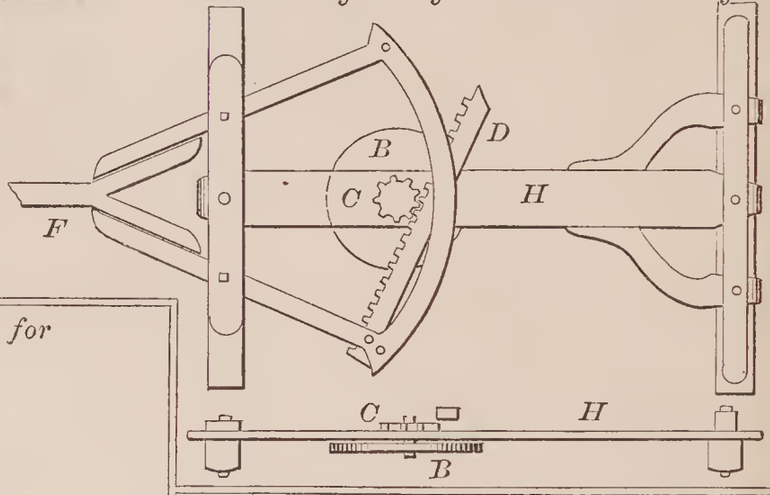
78190—A. H. Daniels—*Eye Glass.*



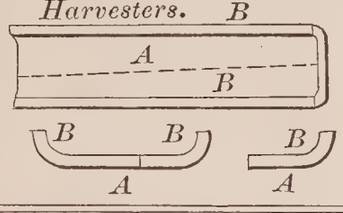


78191—D. G. Daniels—
Car Spring.

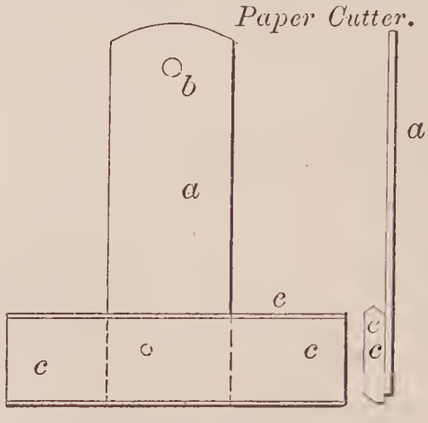
78194—J. W. Drew—*Regulating common Lumber Wagons.*



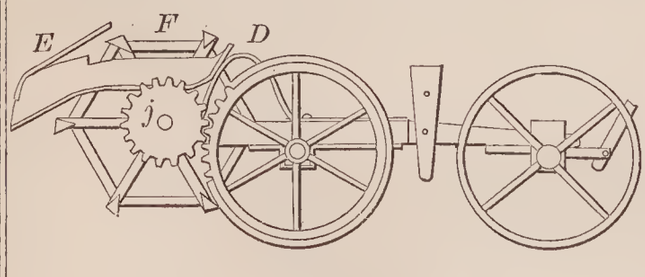
78196—R. Dutton—*Finger Bars for Harvesters.*

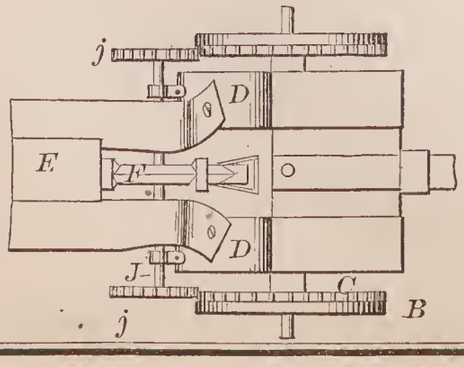


78192—C. B. Dickinson—*Arm Rest and Paper Cutter.*

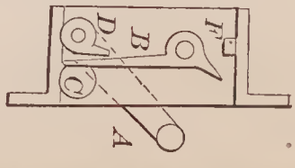


78198—T. B. Fagan—*Ditching Machine.*

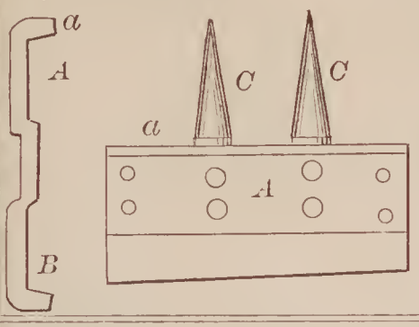




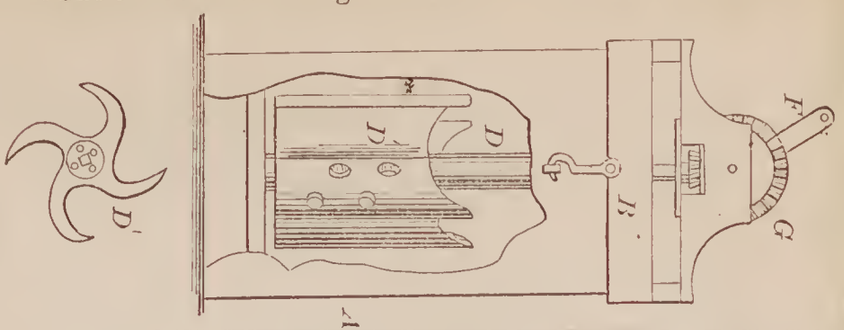
78193—C. F. Dodge—*Sash Supporter.*



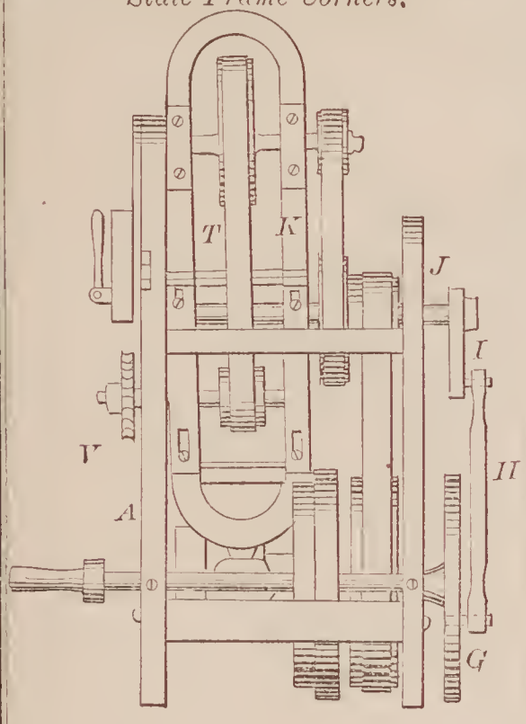
78197—R. Dutton—*Constructing Finger Bars for Harvesters.*



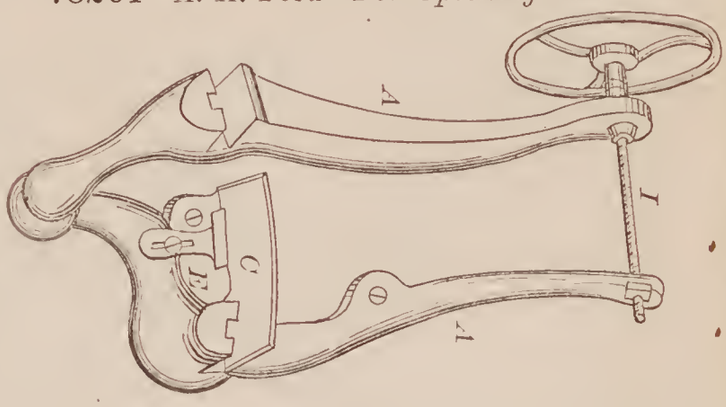
78199—J. H. Fleming—*Churn.*



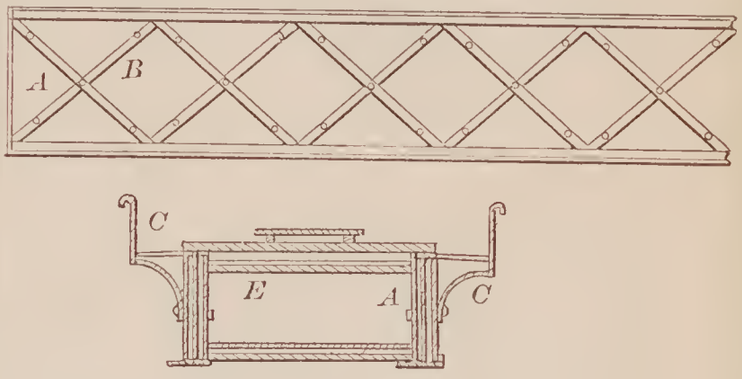
78200—J. Flory—*For Rounding Slate Frame Corners.*



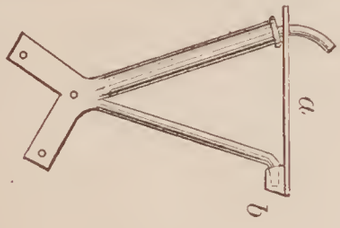
78201—A. H. Ford—*For Upsetting Tires.*



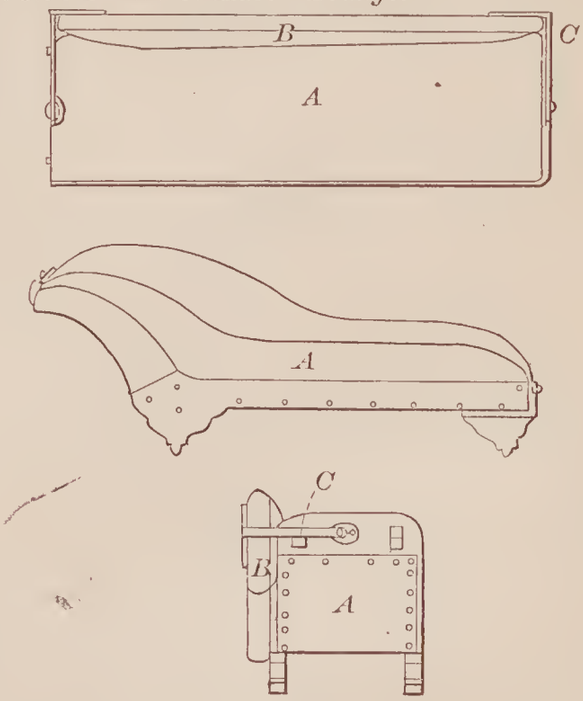
78202—E. Hamilton—*Bridge.*



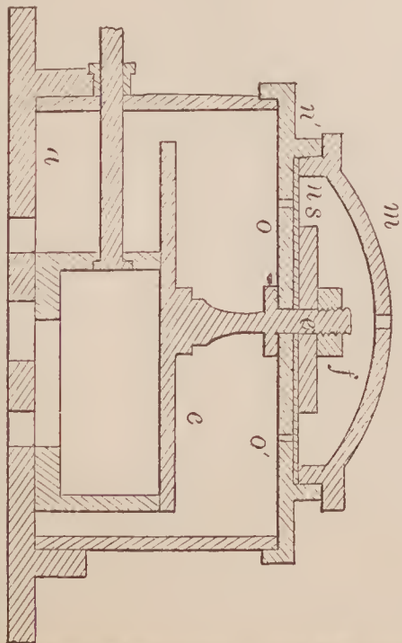
78203—G. D. Hart—*Cultivator.*



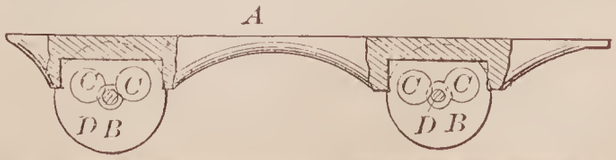
78204—W. C. Hart—*Lounge.*



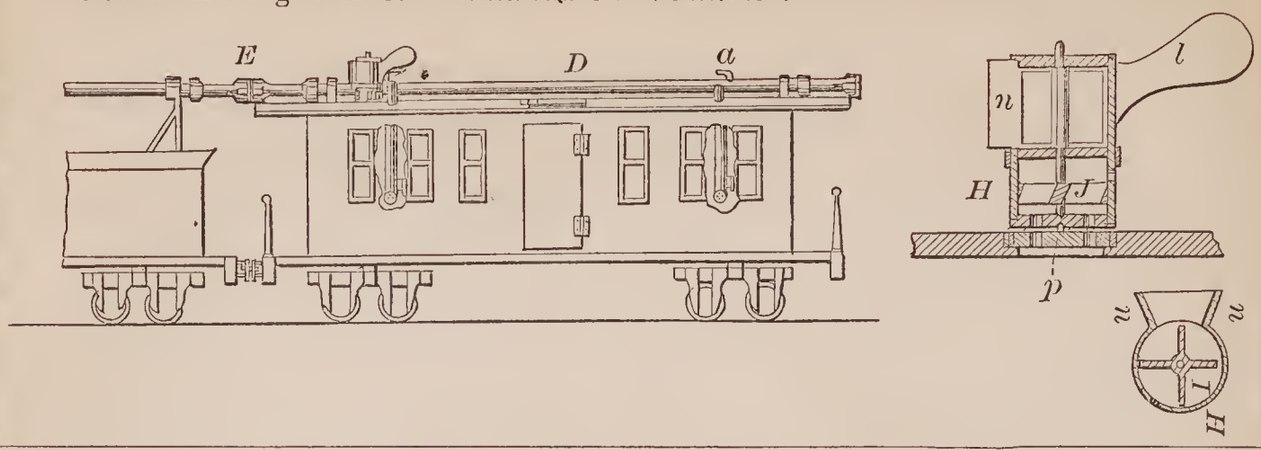
78205—J. Hemphill—*Slide Valve.*



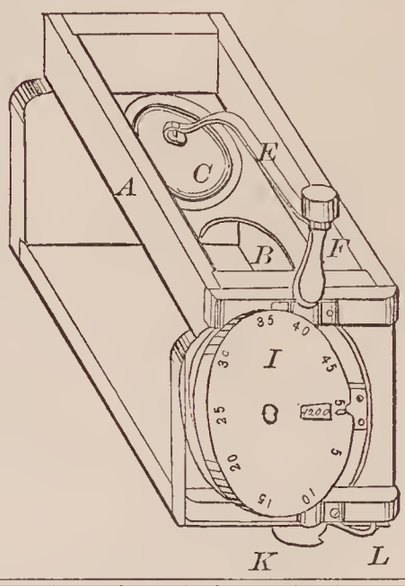
78207—R Hewson—*Parlor Skate.*



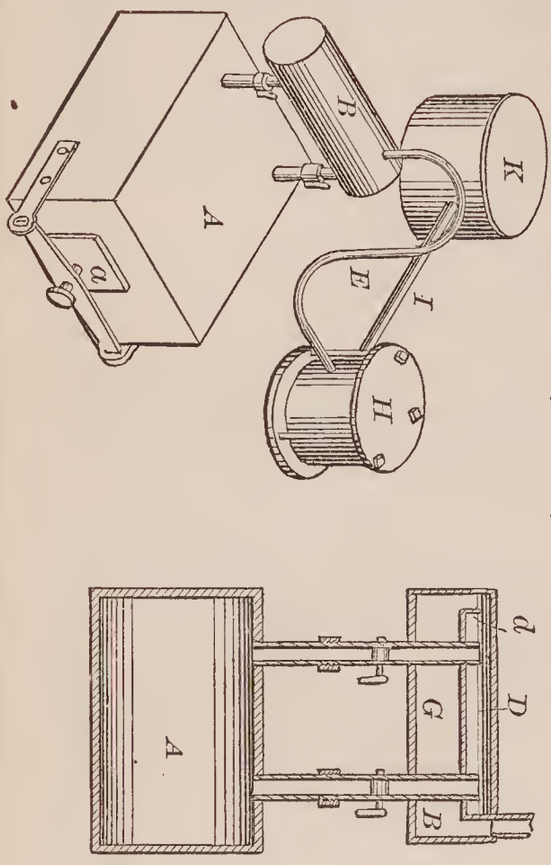
78206—Heneage & Breed—*Railroad Car Ventilator.*



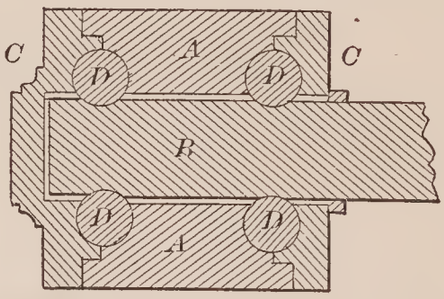
78208—S. Hudson—*Grain Register.*



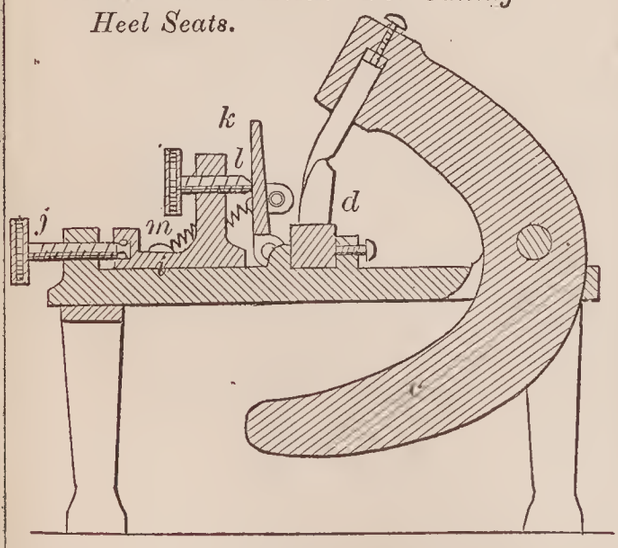
78209—D. H. Irland—*Manufacture of Coal Gas.*



78210—D. Jewett—*Axle Box for Railroad Cars.*

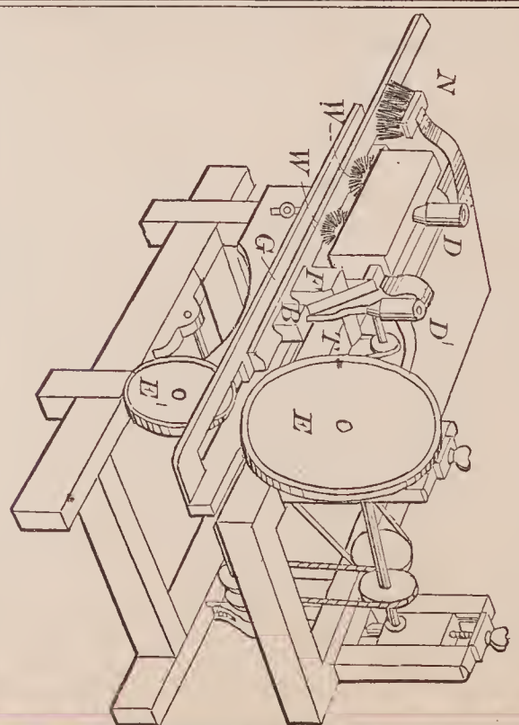


78211—A. B. Keith—*For Cutting Heel Seats.*

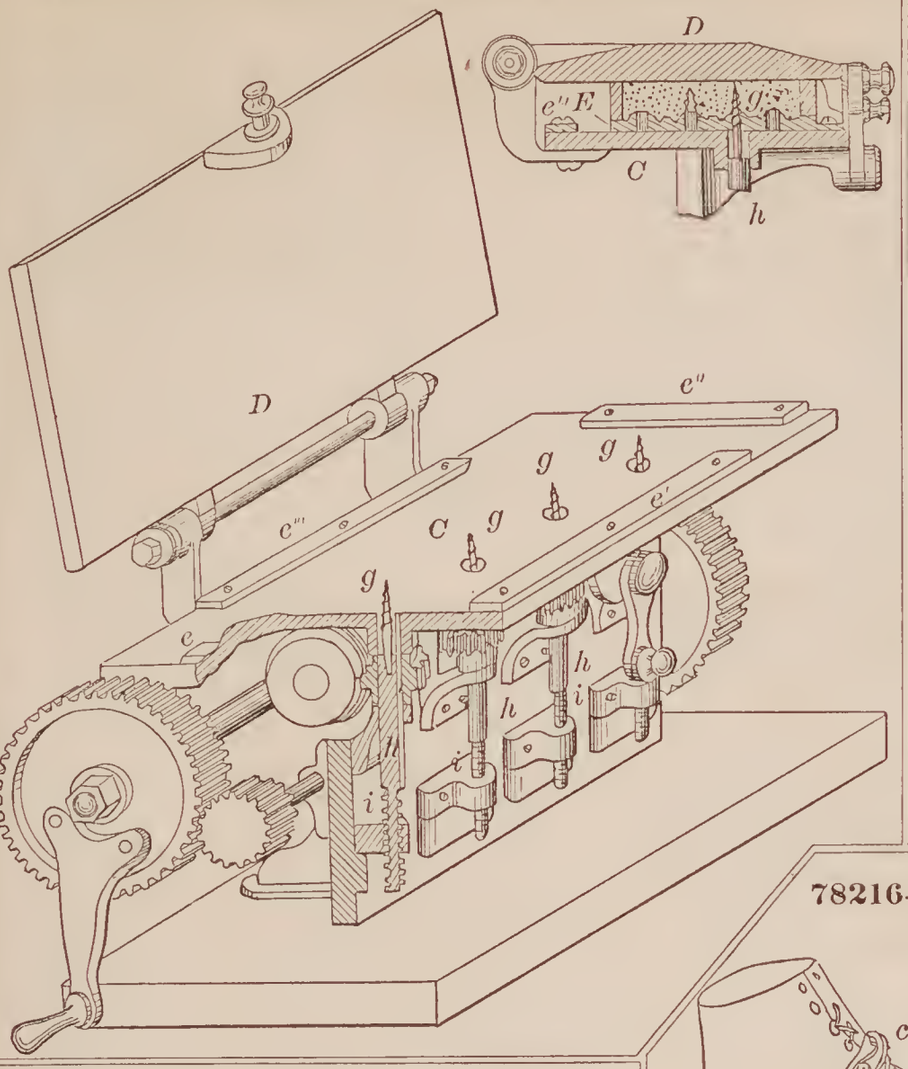


78213—J. Le Ferre—*Forming Carriage Axles.*

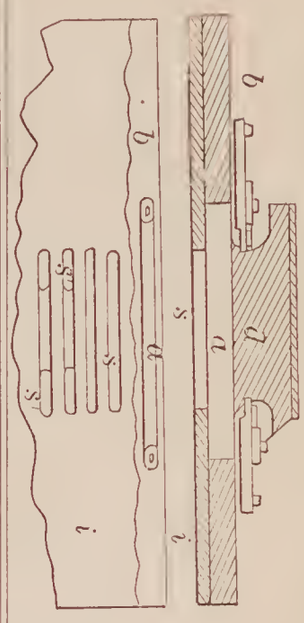
78215—J. S. Loomis—*For Polishing Wood.*



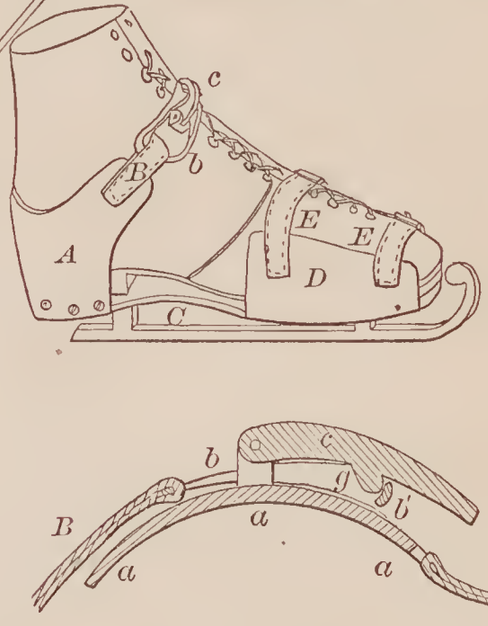
78212—E. H. Keith—*For Moulding Wood Screws.*



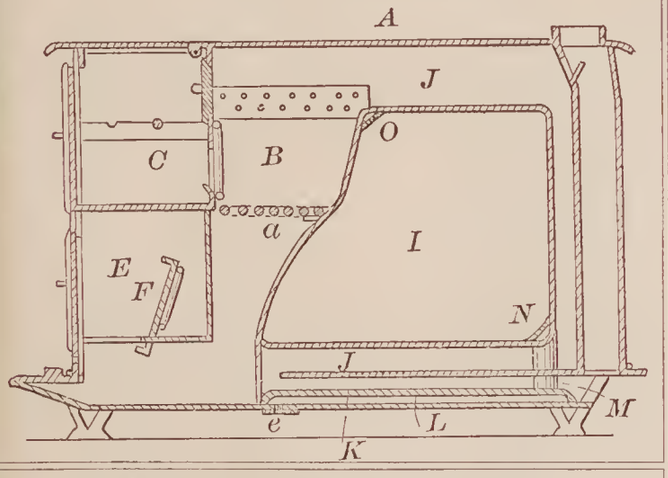
78219—D. Marshall—*Socket Board for Reed Instruments.*



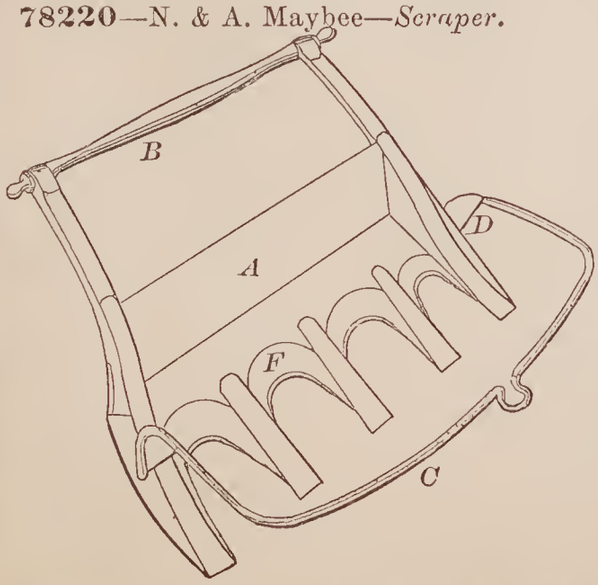
78216—H. B. Lucas—*Skate Fastening.*



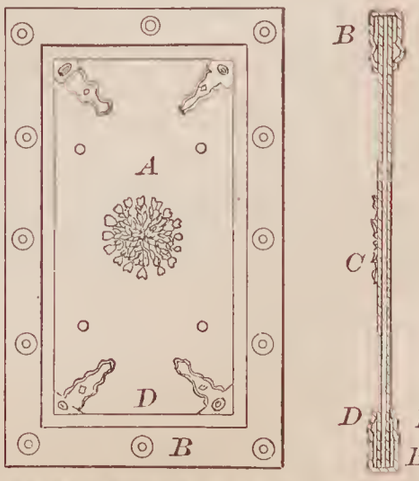
78217—J. Magee—*Cooking Stove.*



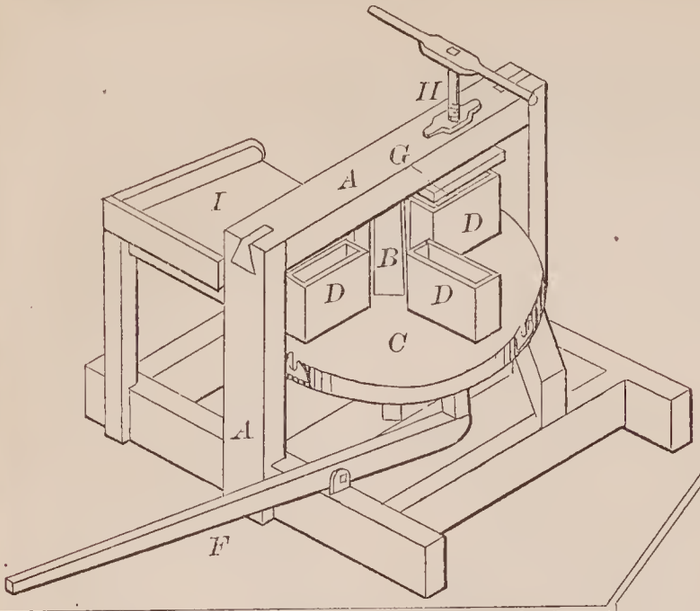
78220—N. & A. Maybee—*Scraper.*

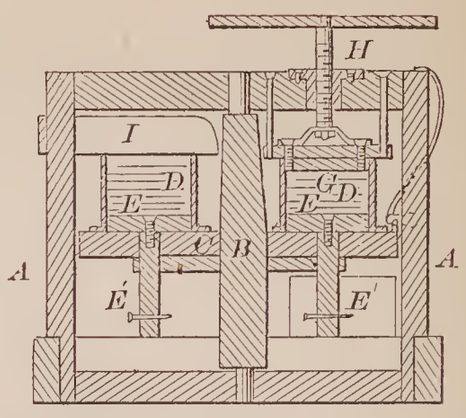


78218—C. K. Marshall—*Metallic Door.*

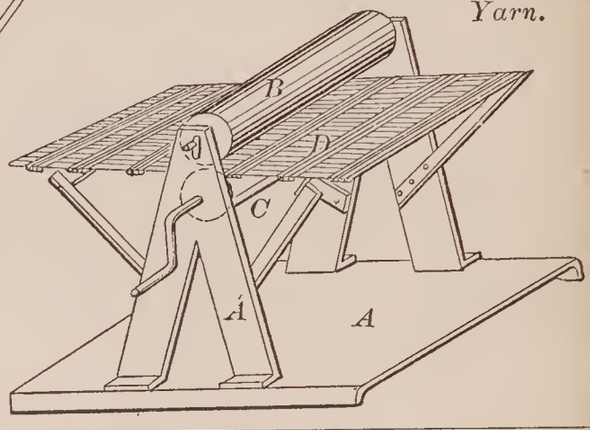


78221—B. J. McAfee—*Brick Machine.*

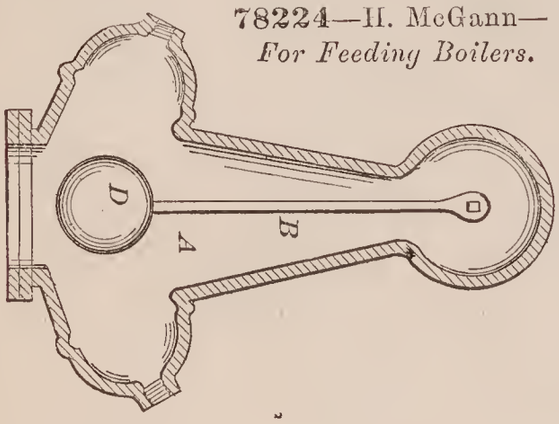


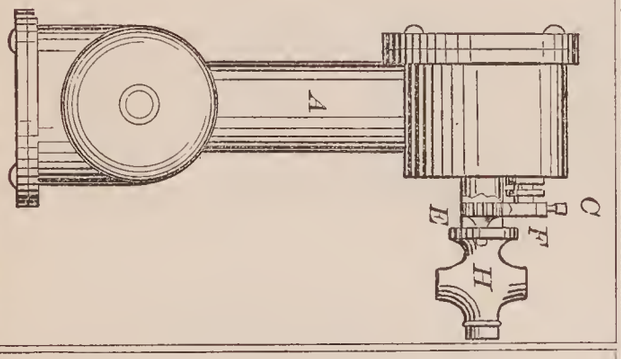


78222—W. McAllister—*For Printing Yarn.*



78224—H. McGann—*For Feeding Boilers.*





78223—S. B. McCracken—*Spring Bed Bottom.*

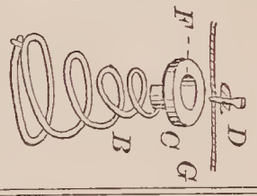
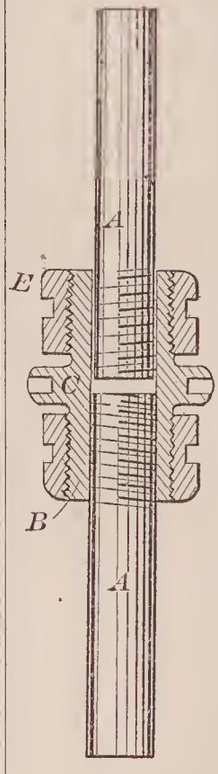
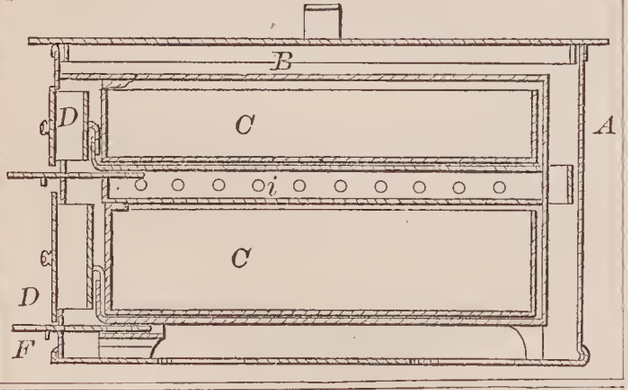


Fig. 3

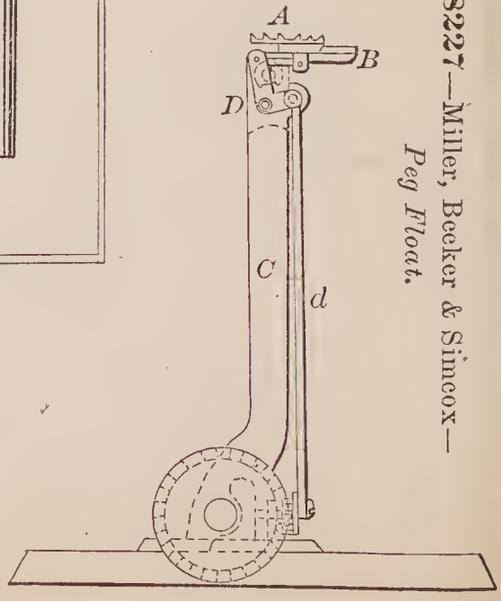


78225—A. H. Merriman—*Press Spindle Adjustment.*

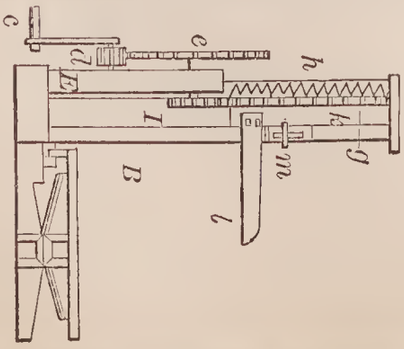
78226—F. C. Miller—*Portable Oven.*



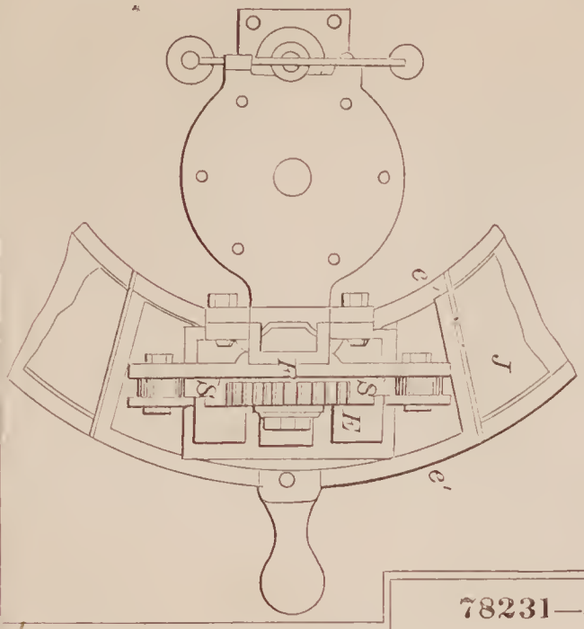
78227—Miller, Becker & Simcox—*Peg Float.*

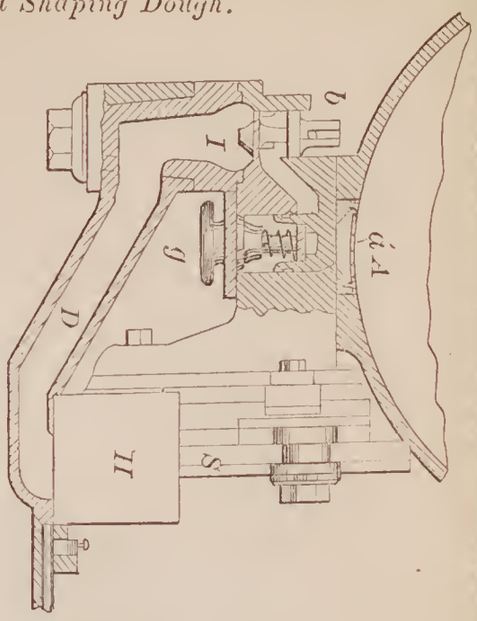


78228—Morse & Sawyer—*Cheese Cutter.*



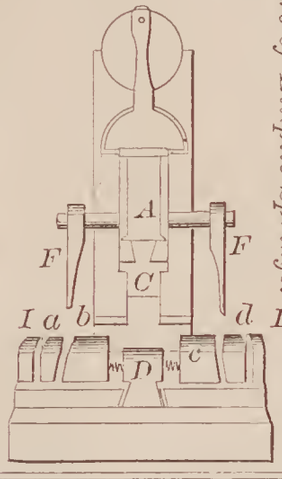
78232—J. Perry—*For Expanding and Shaping Dough.*



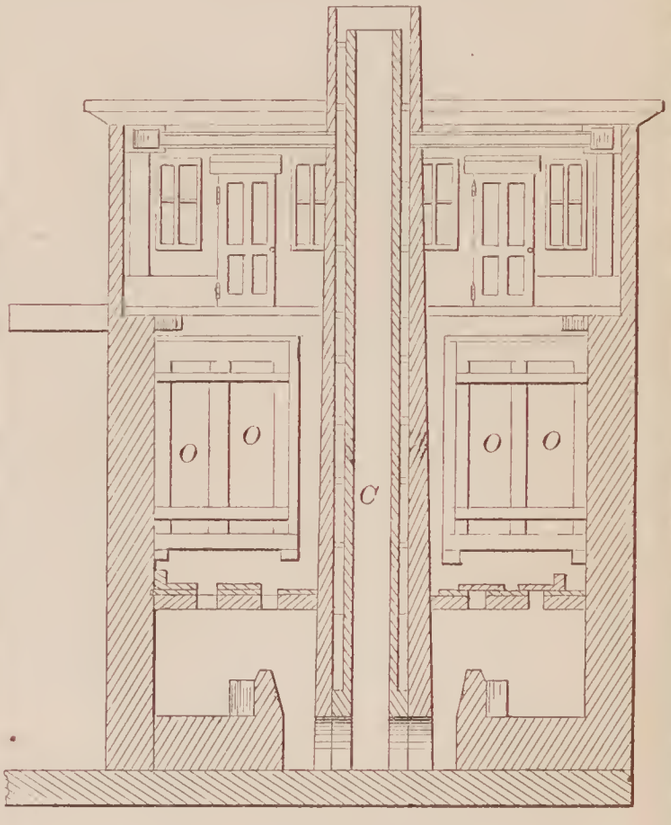


78229—E. A. Paine—*Shuttle.*

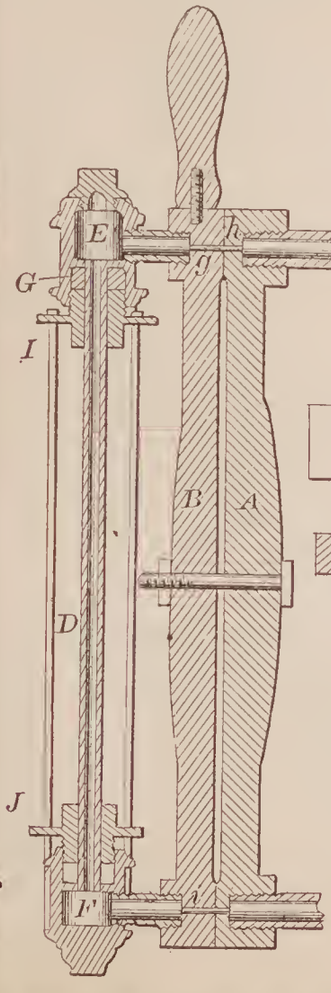
78230—J. Palmer—*Welding the Ears of Elliptic Springs.*

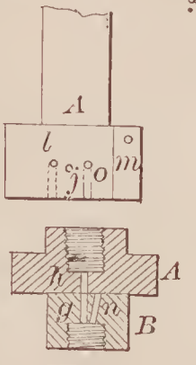


78231—J. Perry—*Oven and Bath.*

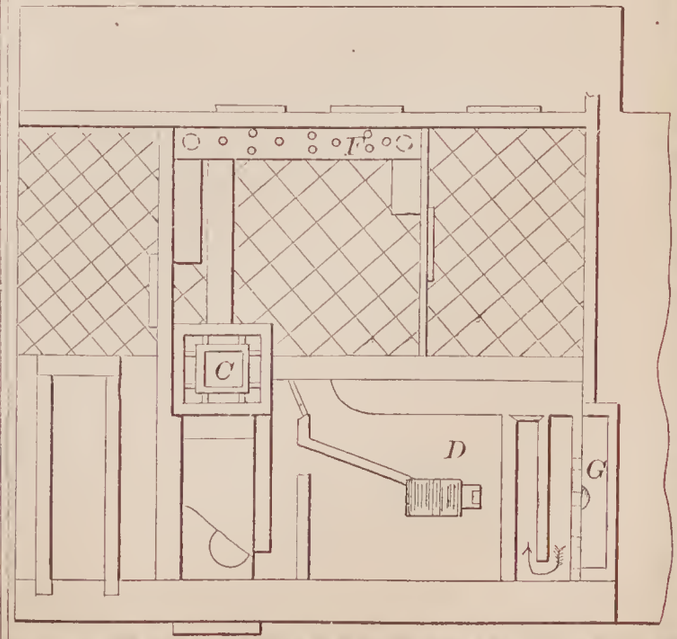


78234—C. L. Ridgway—*Water Gauge for Steam Boilers.*

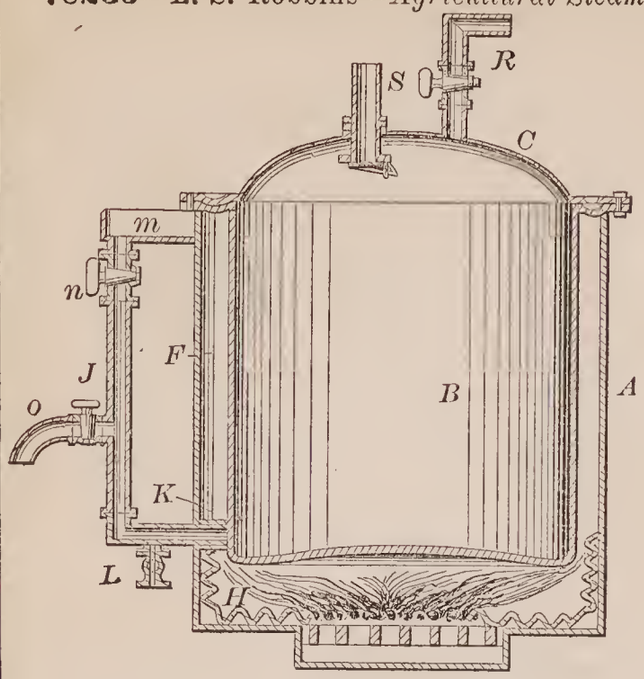




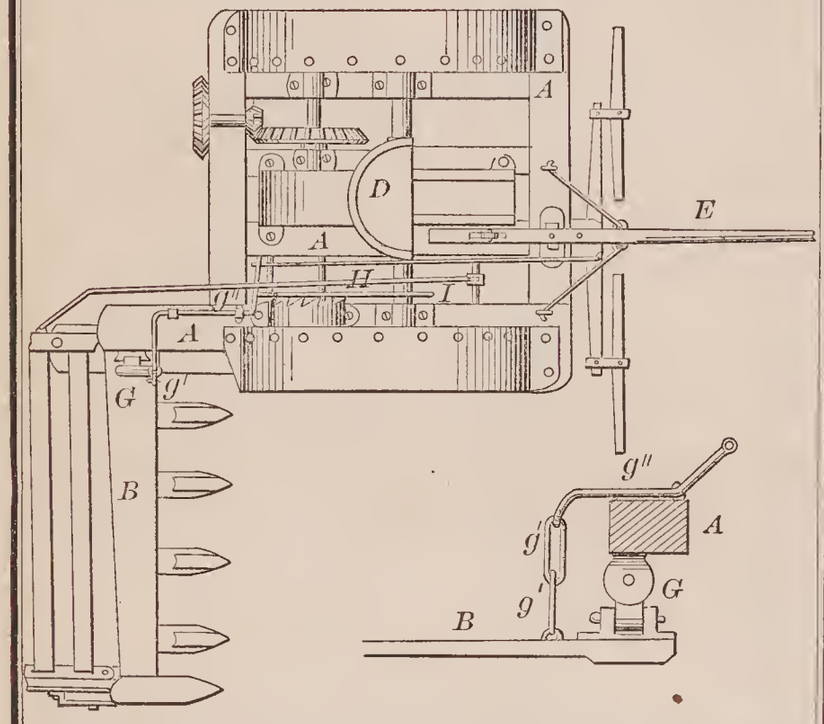
78233—P. Poullain—*Cultivation of Plants.*



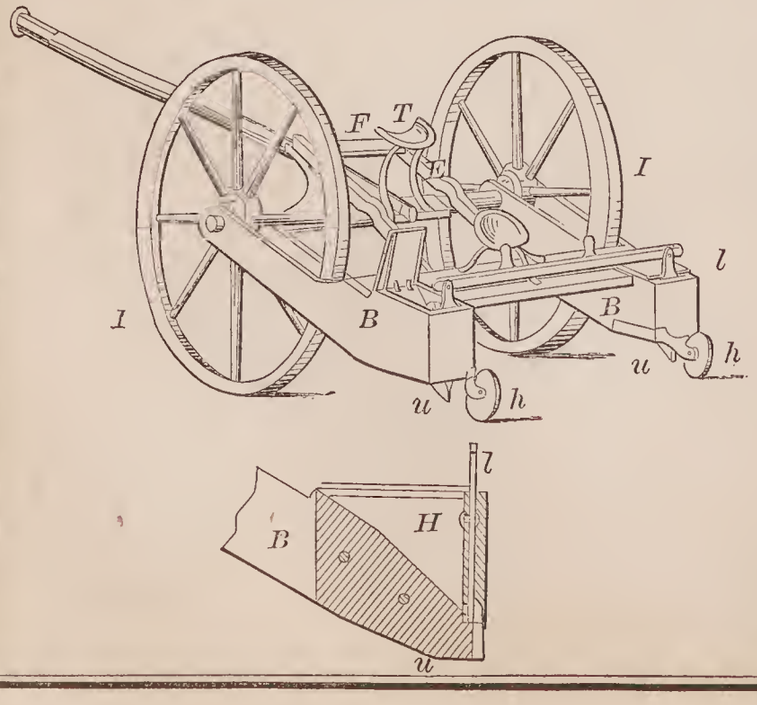
78235—L. S. Robbins—*Agricultural Steam Boiler.*



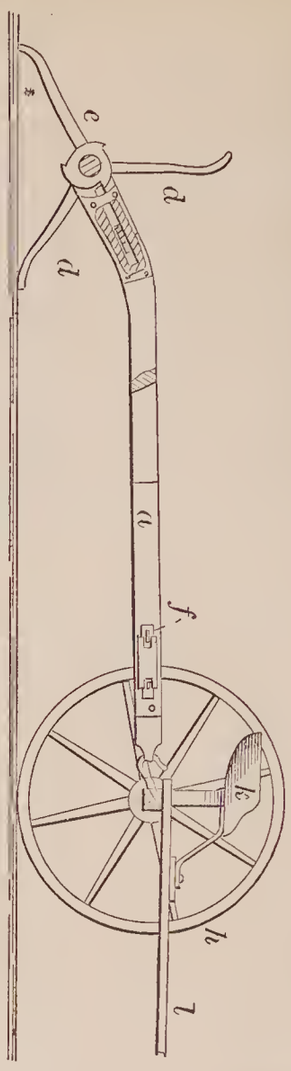
78236—S. Rockafellow—*Harvester.*



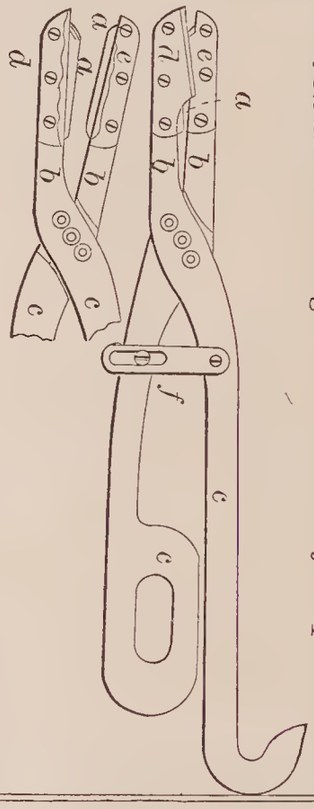
78237—O. Sampson—*Corn Planter.*



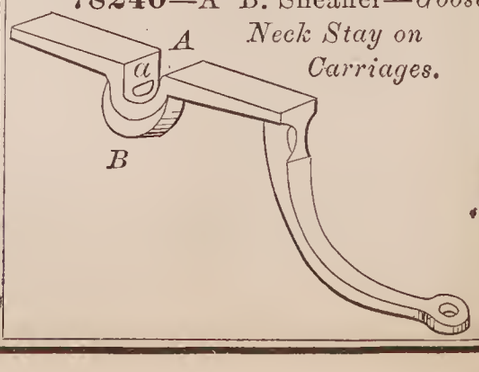
78239—J. Seely—*Horse Rake.*



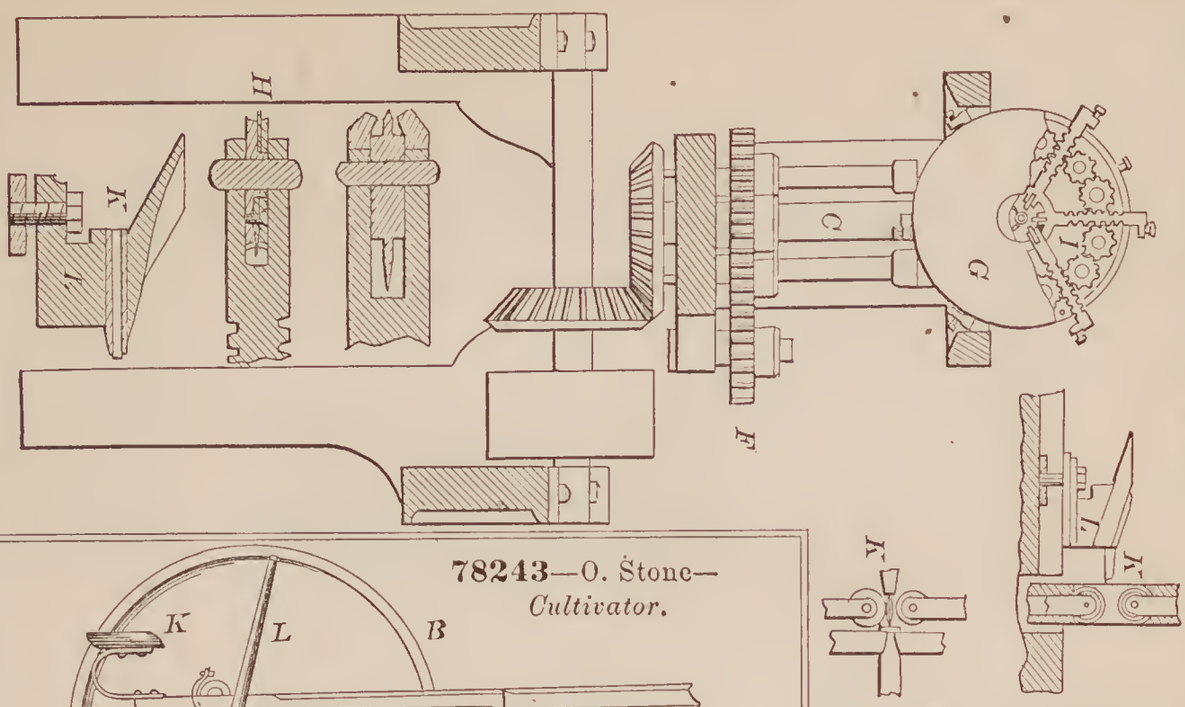
78241—J. F. Single—*For Harvesting Grapes.*



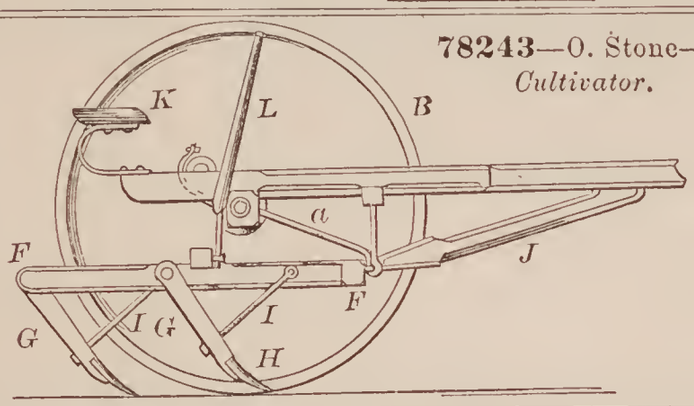
78240—A B. Sheaffer—*Goose Neck Stay on Carriages.*



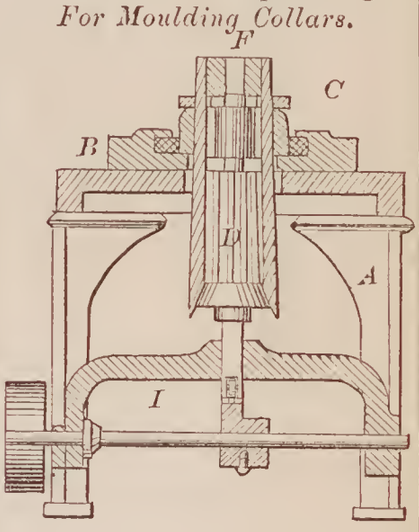
78238—S. Sawyer—*Rattan Machine.*



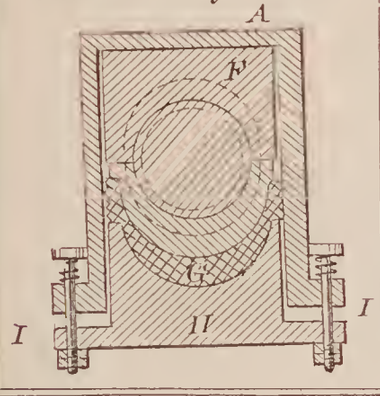
78243—O. Stone—*Cultivator.*



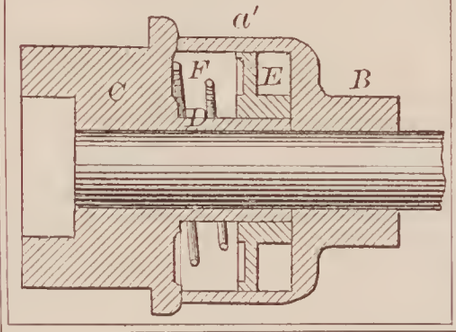
78242—G. H. Spaulding—*For Moulding Collars.*



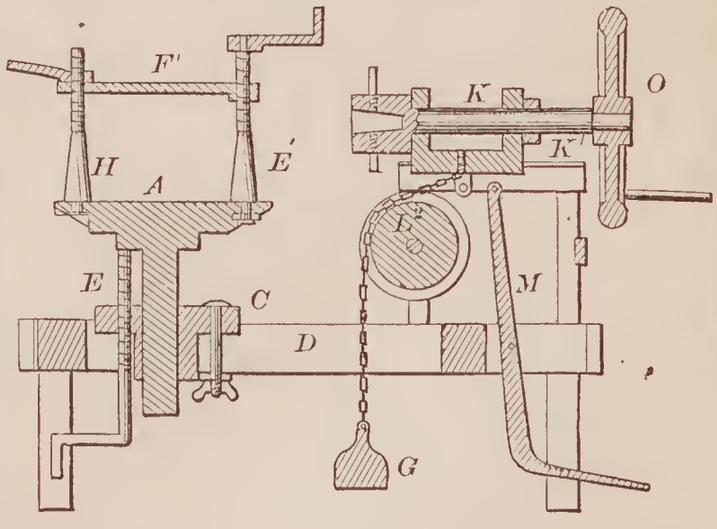
78244—M. Thornton—*Journal Box for Cars.*



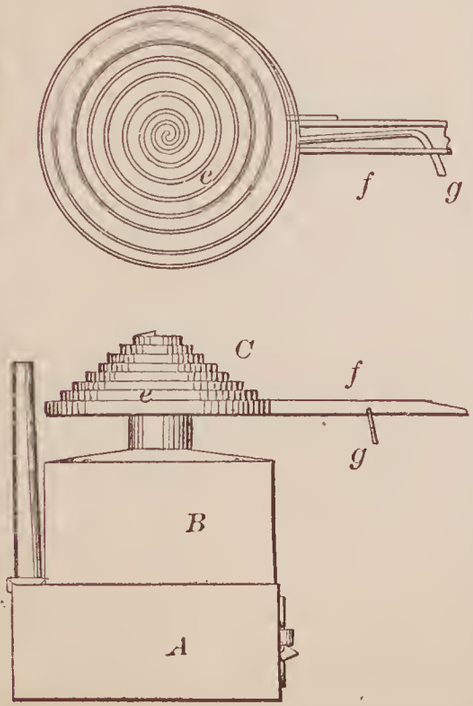
78245—G. Weiland—*Harvester.*



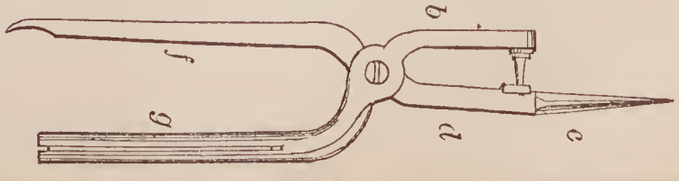
78246—J. Wharff—*For Boring Hubs.*



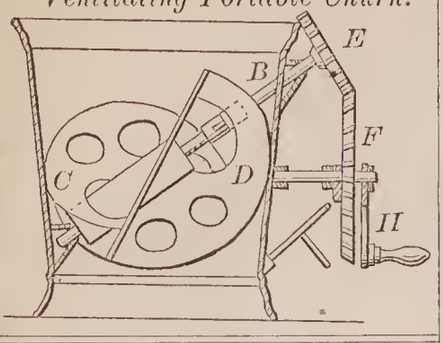
78247—Whisler & Berry—*Still.*



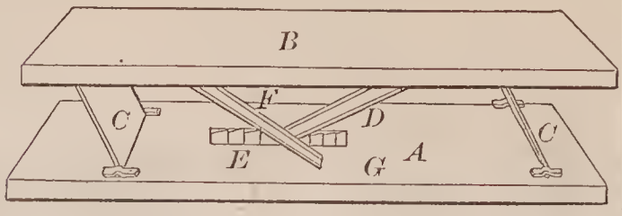
78248—E. F. Wilder—*Implement.*



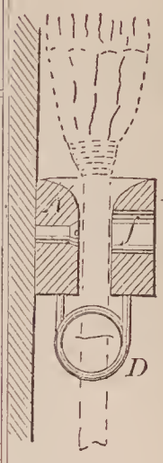
78249—E. P. Williams—*Ventilating Portable Churn.*



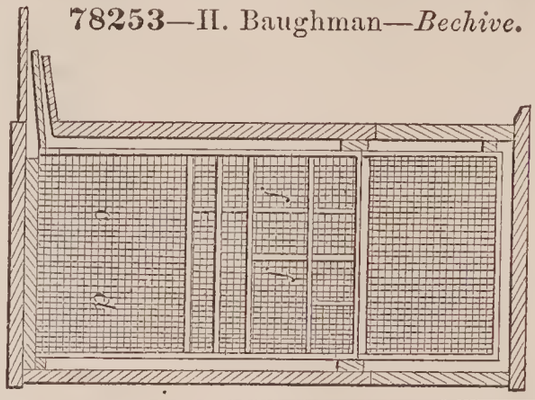
78250—J. B. Withey—*Penman's Arm Rest.*



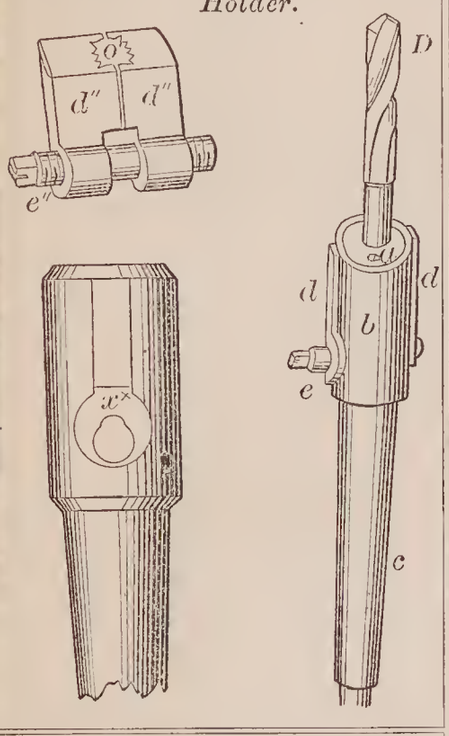
78252—F. B. Batchelder—*Broom Holder.*



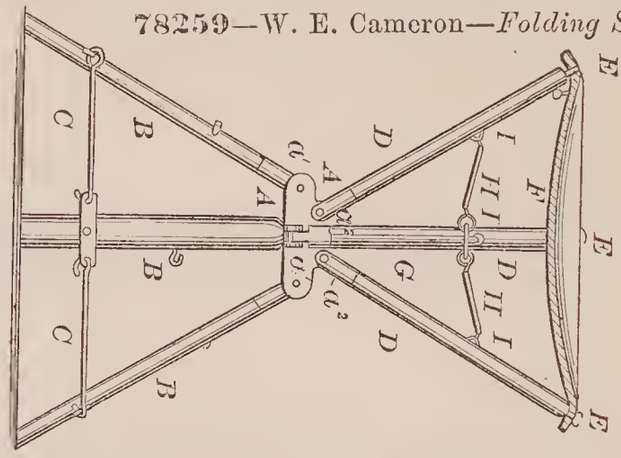
78253—H. Baughman—*Bechive.*



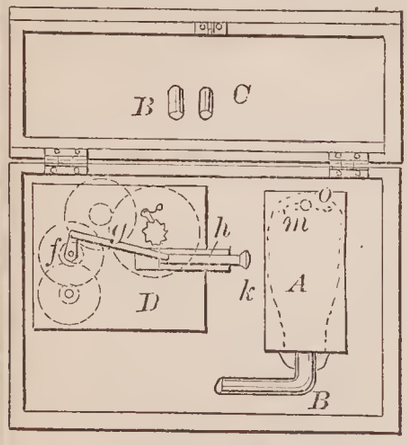
78251—T. K. Bacon—*Drill Holder.*

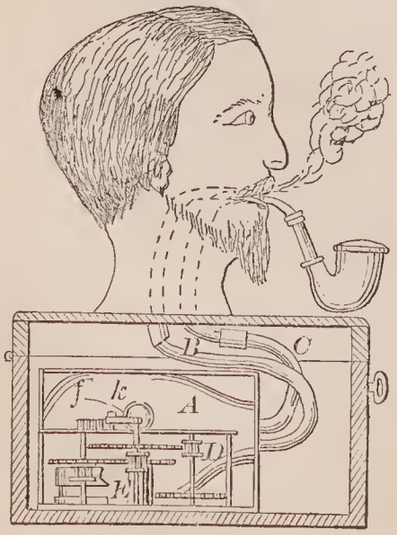


78259—W. E. Cameron—*Folding Stool.*

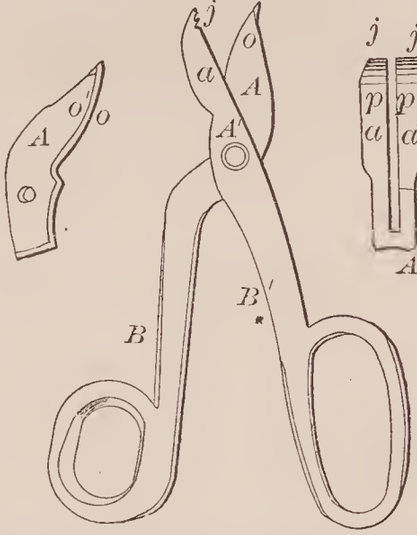


78254—J. W. Boughton—*Tobacconist's Sign.*

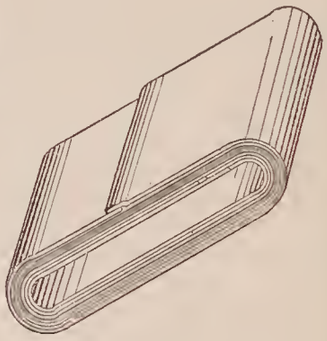




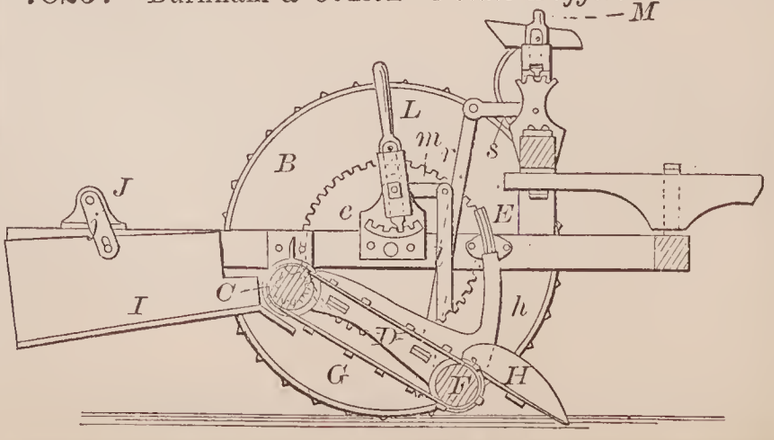
78255—Buell & Root—*Shears.*



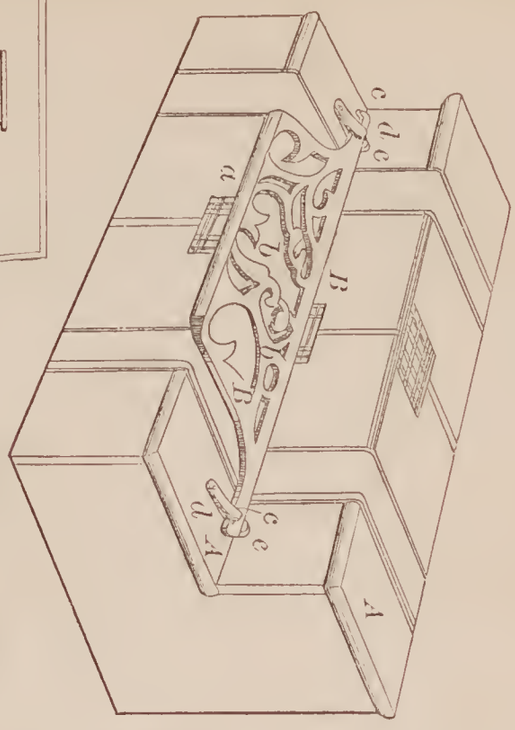
78260—E. M. Chaffee—*Gutta Percha Hose.*



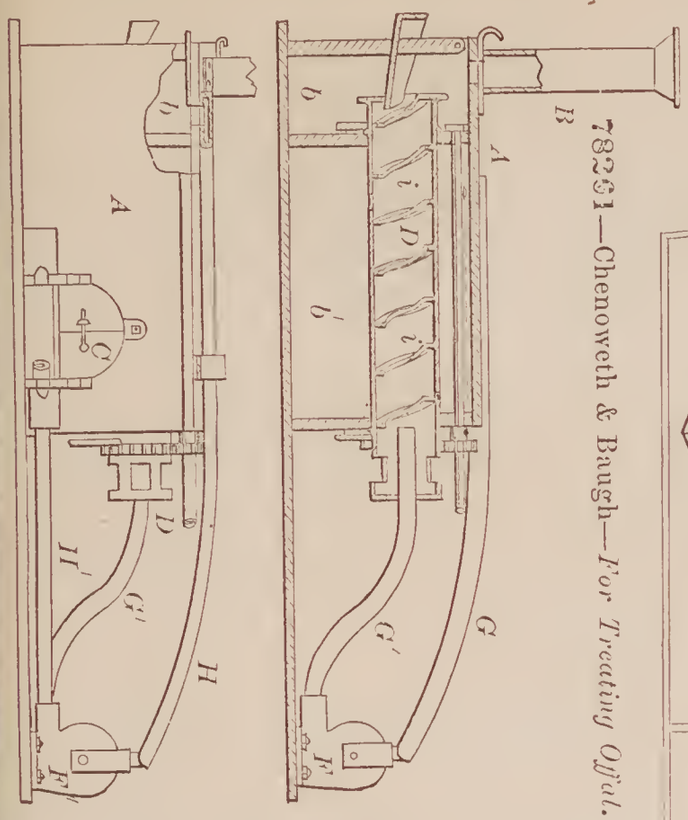
78257—Burnham & Conlon—*Potato Digger.*



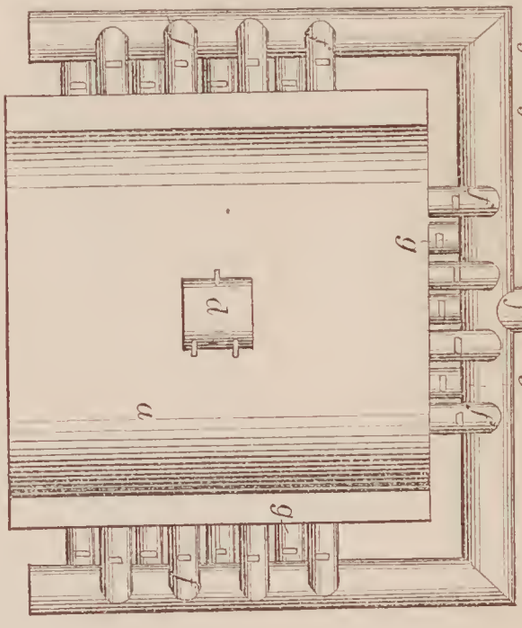
78263—J. Conner, Jr.—*Stair Carpet Fastener and Protector.*



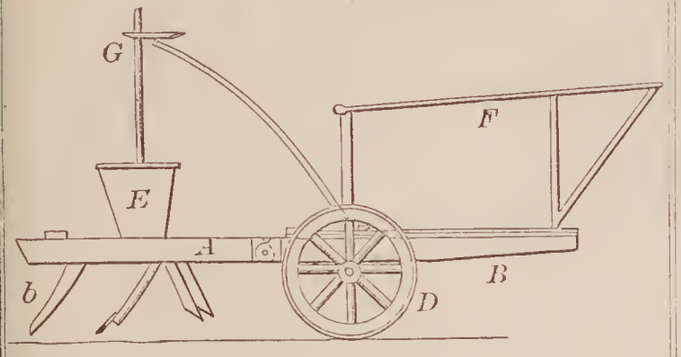
78231—Chenoweth & Baugh—*For Treating Offal.*



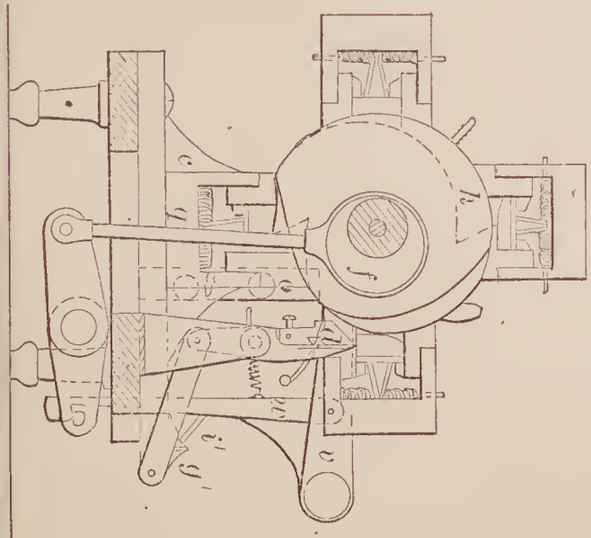
78264—Converse & Atherton—*Manufacture of Pyroligneous Acid.*

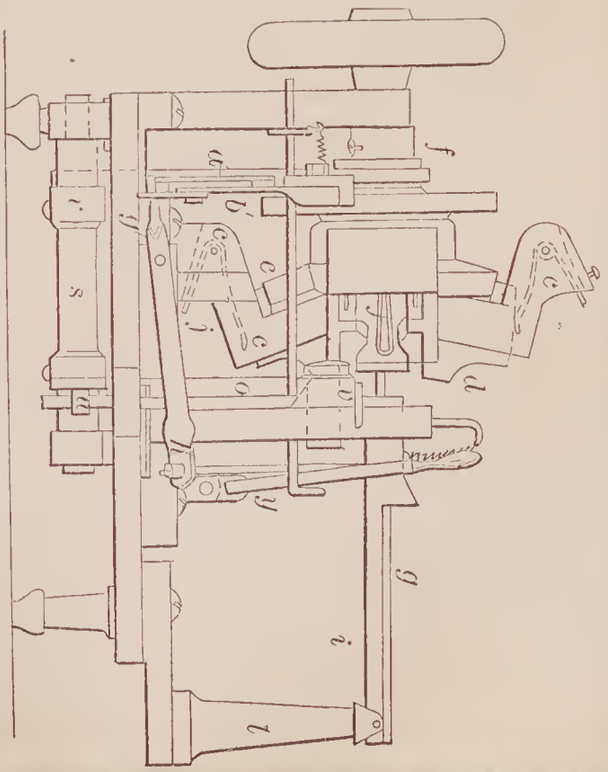


78262—W. R. Clark—*Corn Planter.*

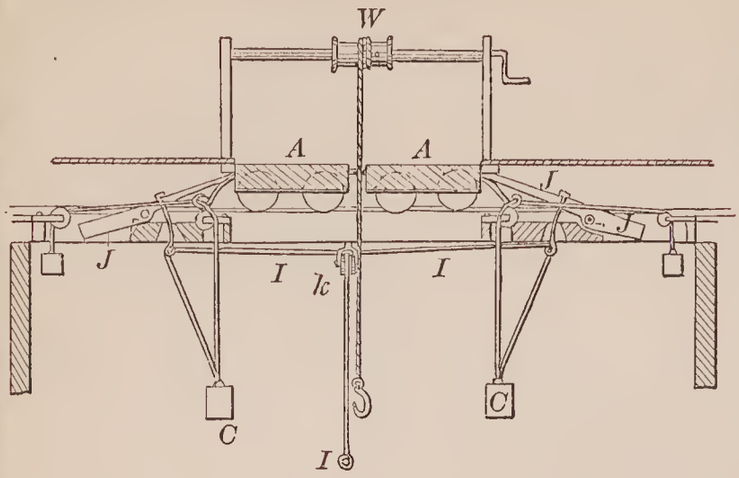


78266—W. H. Defrees—*Forging Machine.*

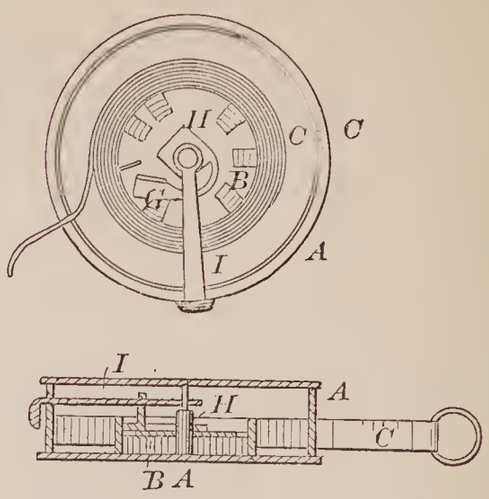




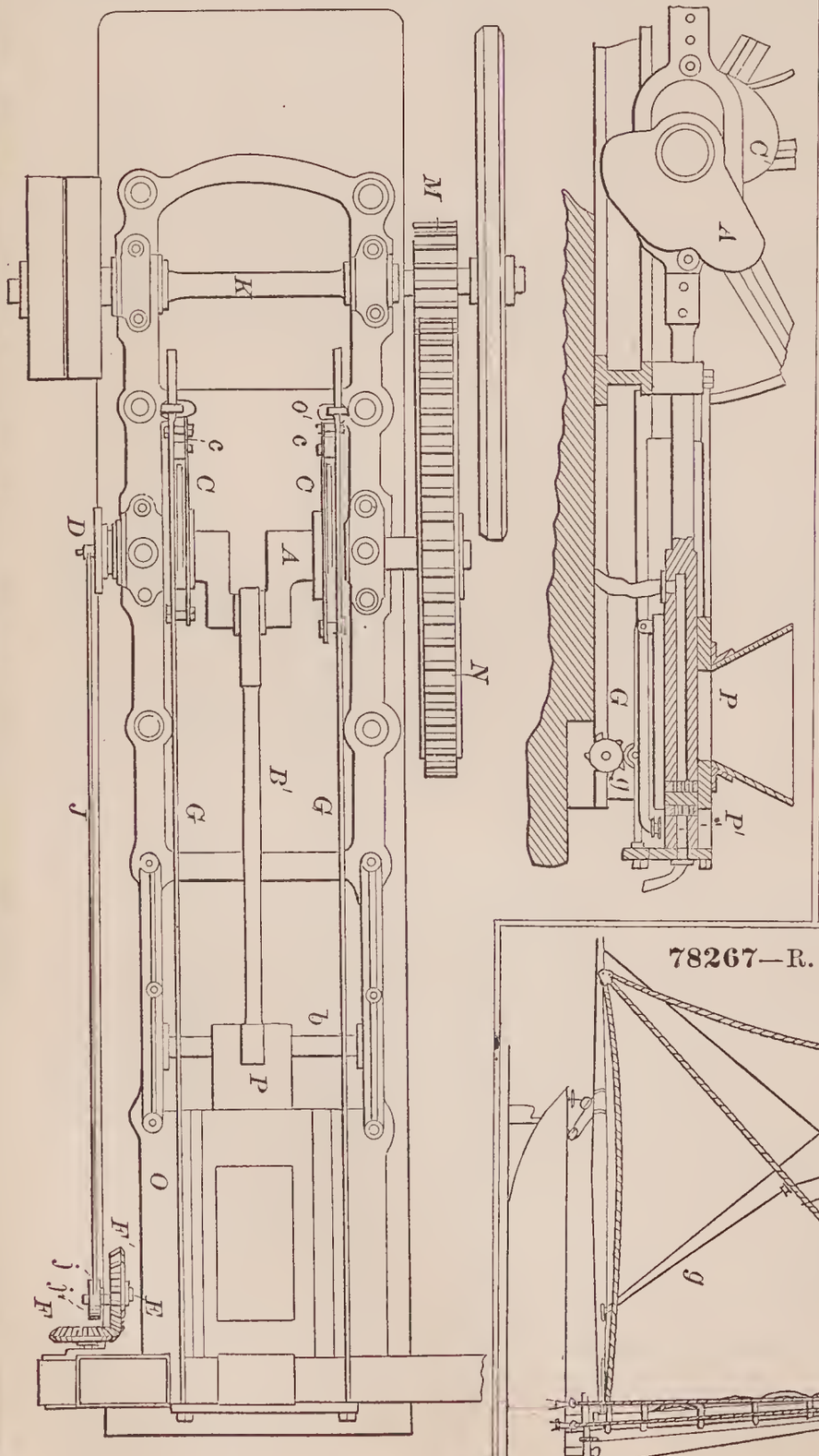
78265—G. N. Creamer—*Safety Hatch.*



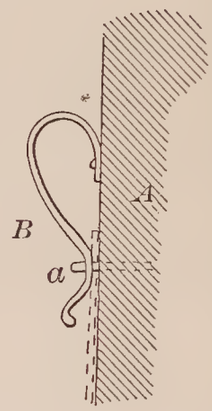
78272—A. J. Fellows—*Tape Box.*



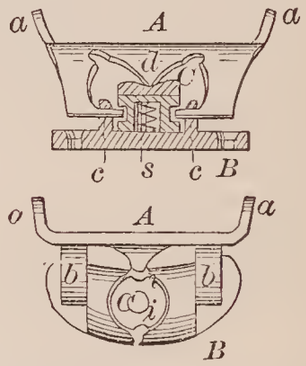
78268—F. Durand—*Brick Machine.*



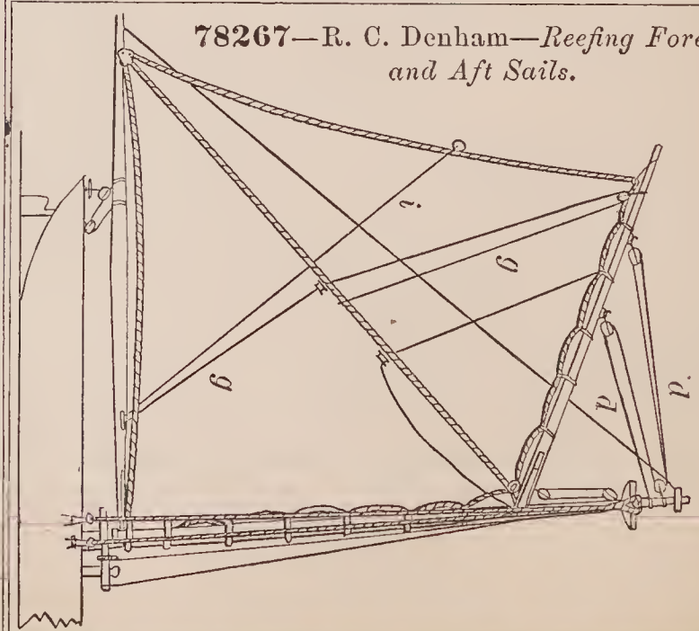
78271—A. H. Fatzinger—*Paper Clip.*



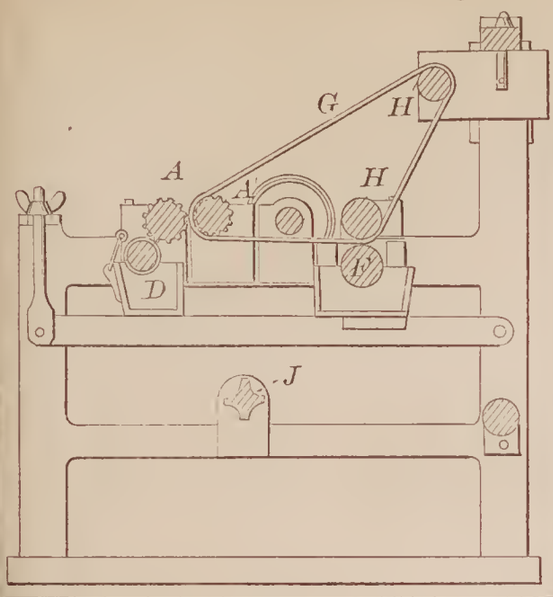
78270—G. W. Farley—*Ice Calk.*



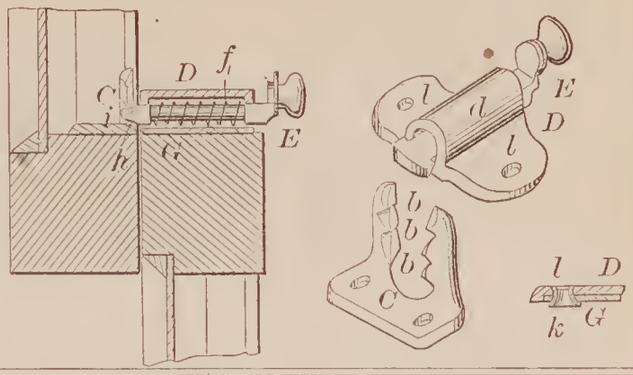
78267—R. C. Denham—*Reefing Fore and Aft Sails.*



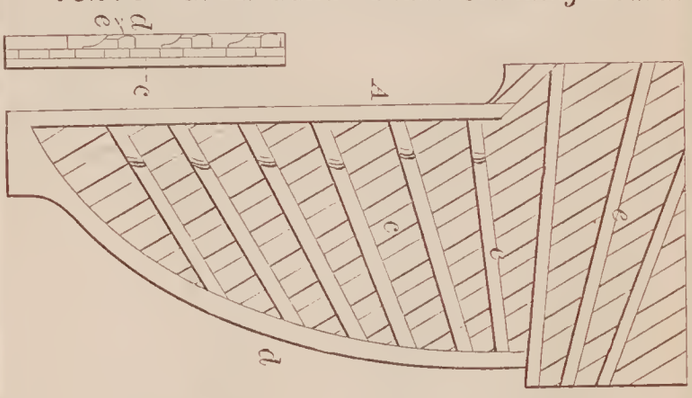
78273—J. Foster—*For Printing Yarn.*



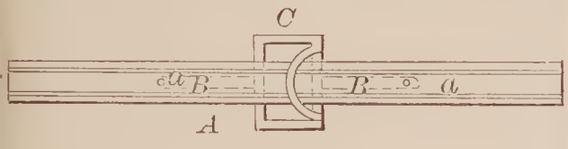
78274—O. S. Garretson—*Sash Fastening.*



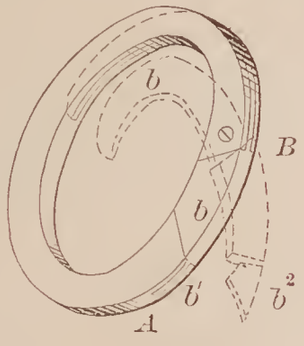
78276—G. M. Guild—*Piano Sounding Board.*



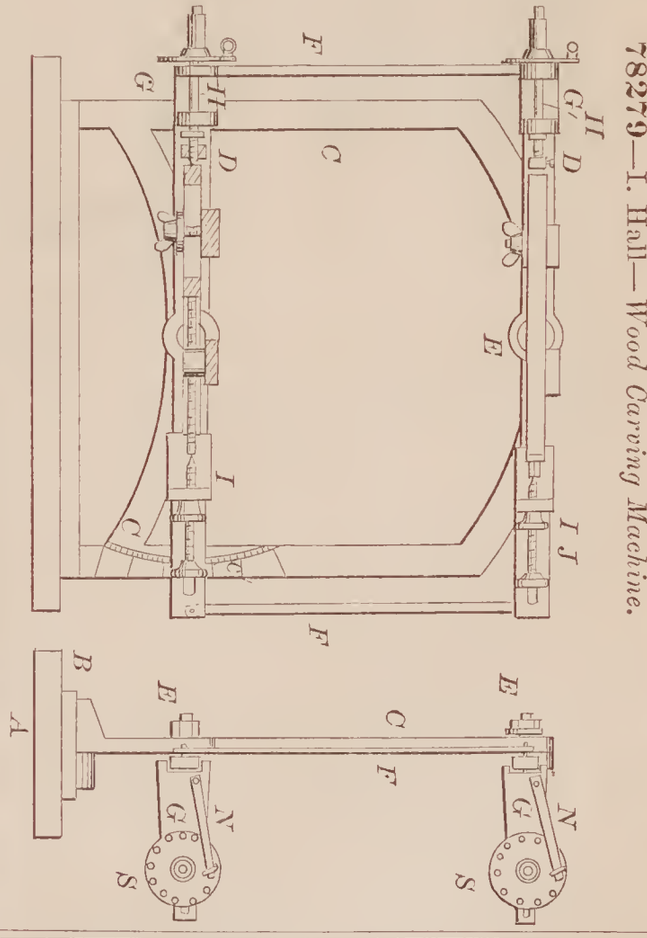
78277—M. Gumfory—*Trace Tug Loop.*



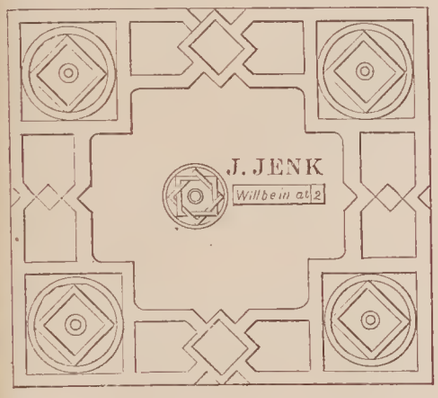
78275—A. Goodhart—*Link.*

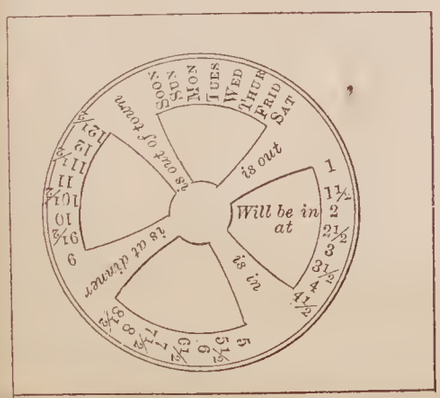


78279—I. Hall—*Wood Carving Machine.*

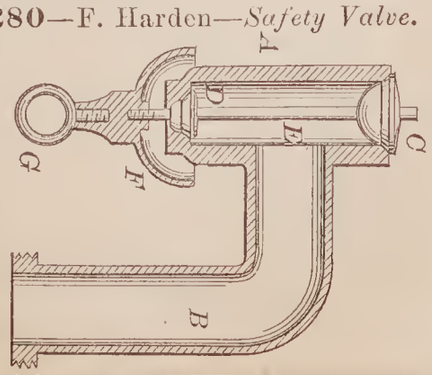


78278—A. Hadley—*Door Indicator.*

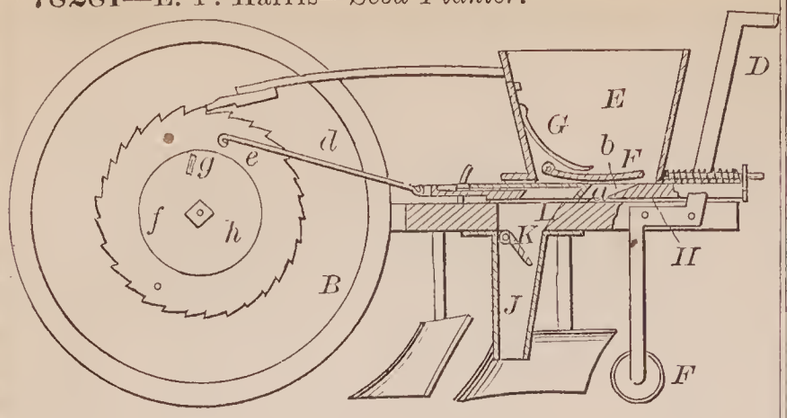




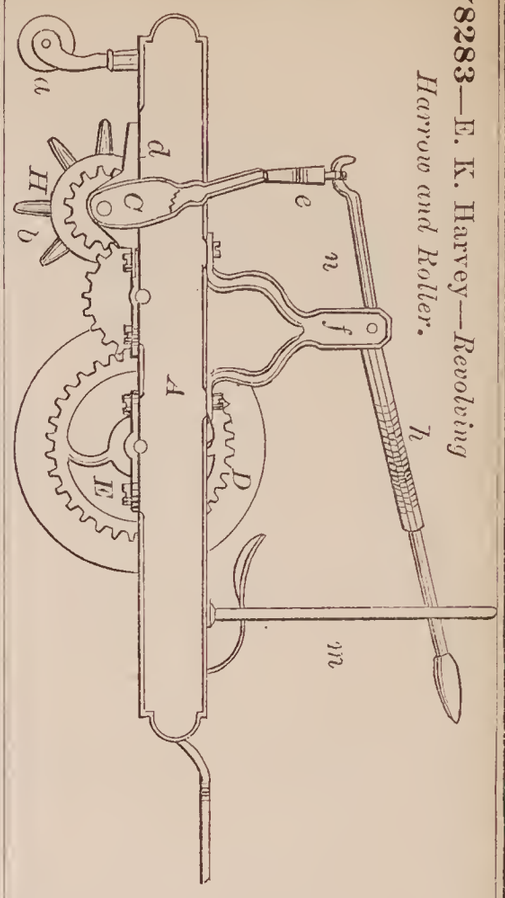
78280—F. Harden—*Safety Valve.*



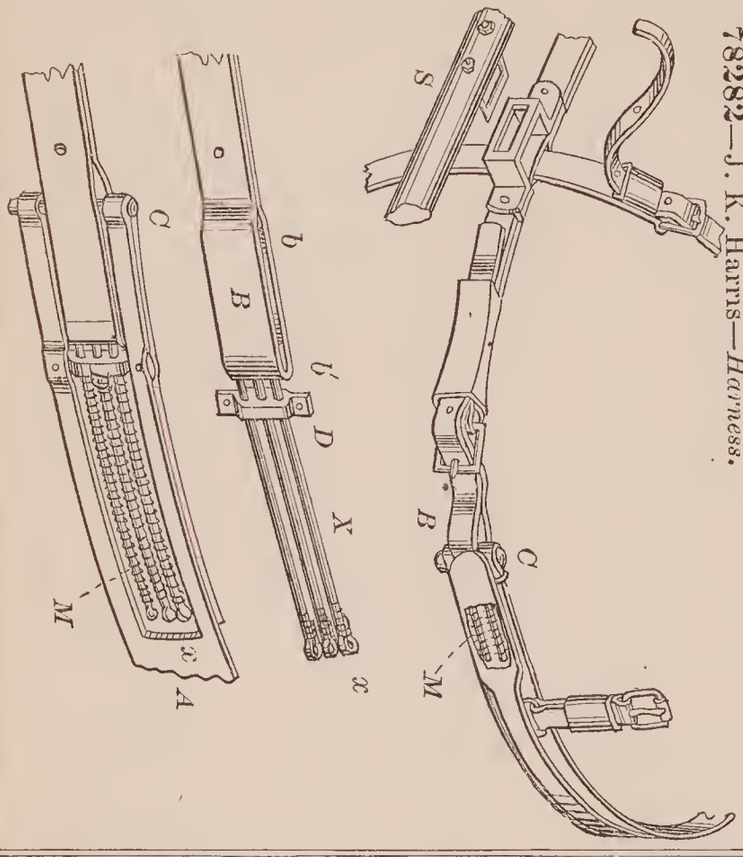
78281—E. P. Harris—*Seed Planter.*



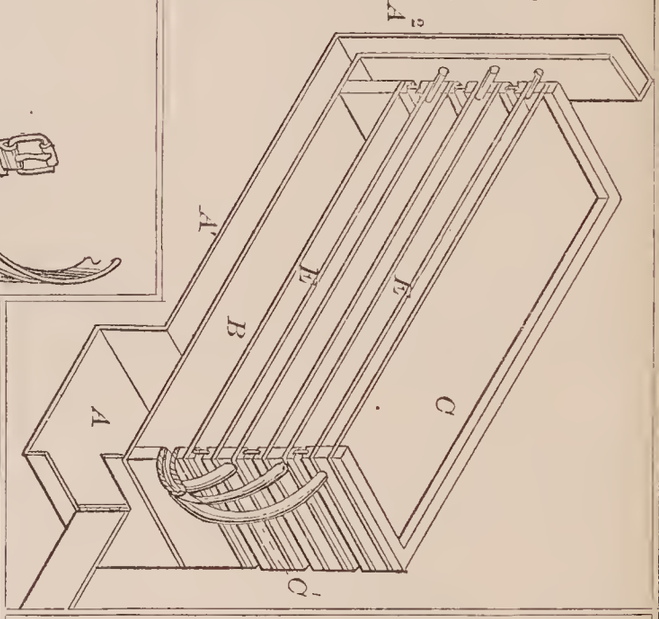
78283—E. K. Harvey—*Revolving Harrow and Roller.*



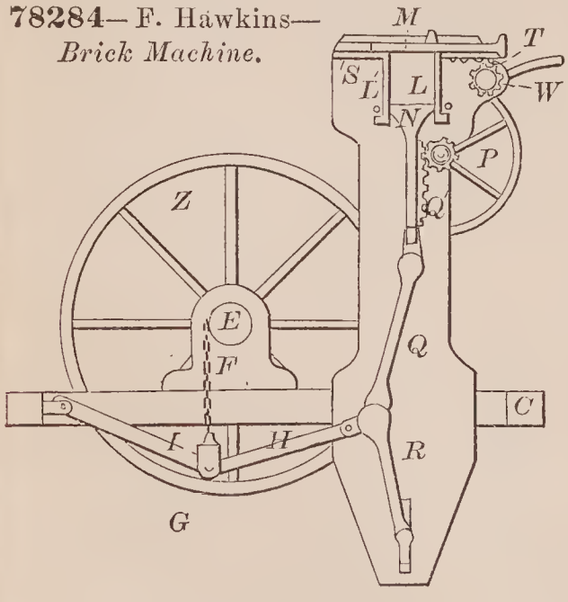
78282—J. K. Harris—*Harness.*



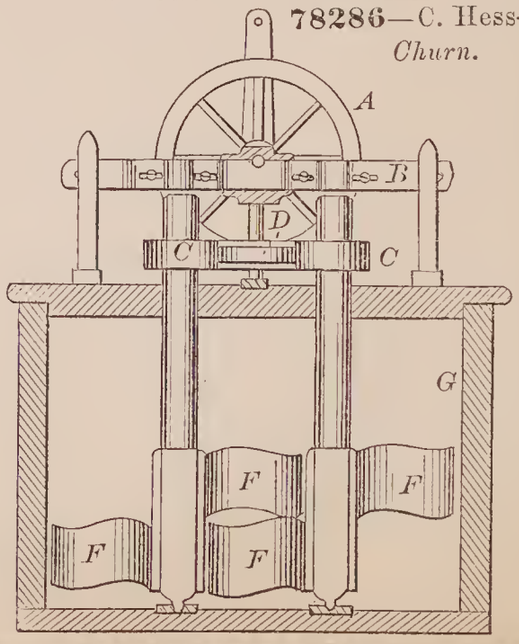
78285—H. Henley—*Dryer.*



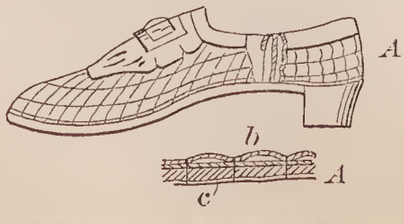
78284—F. Hawkins—*Brick Machine.*



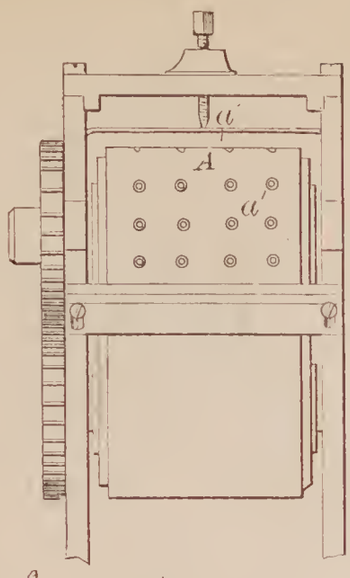
78286—C. Hess—*Churn.*

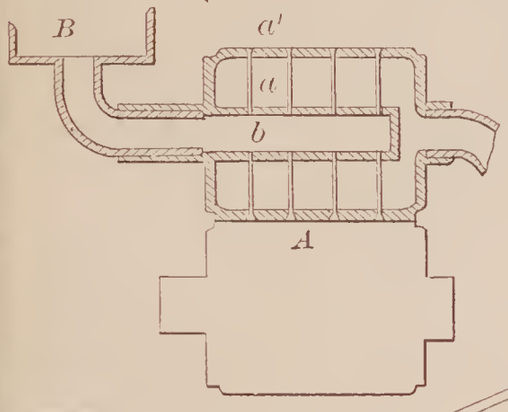


78287—M. L. Hill—*Shoe.*

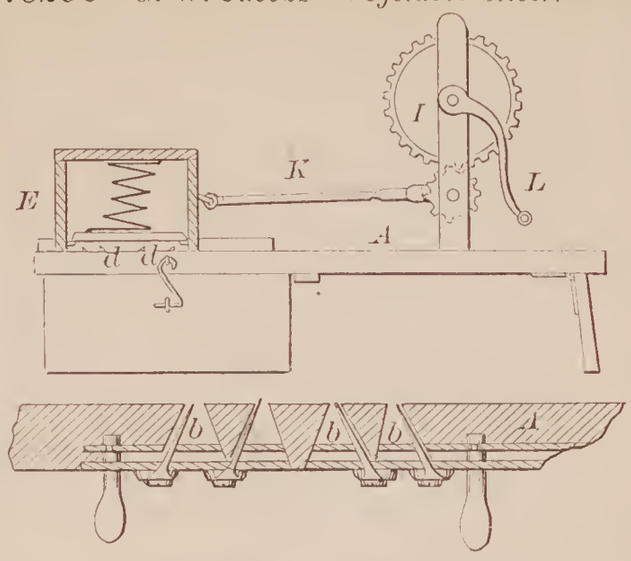


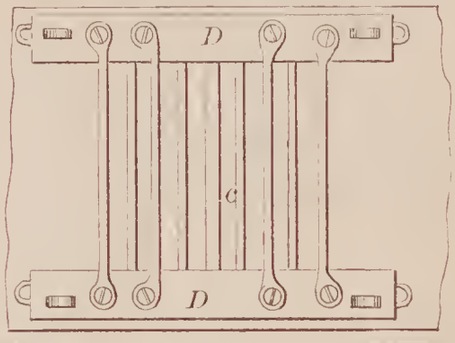
78288—C. Holliday—*For Printing on Fabrics.*



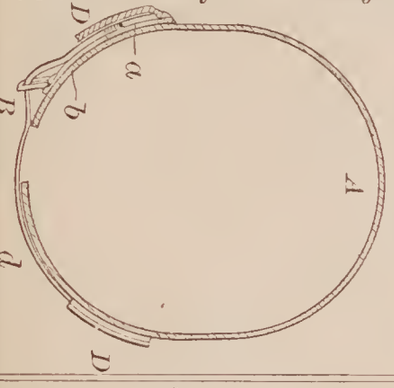


78290—G. W. Jacobs—*Vegetable Slicer.*

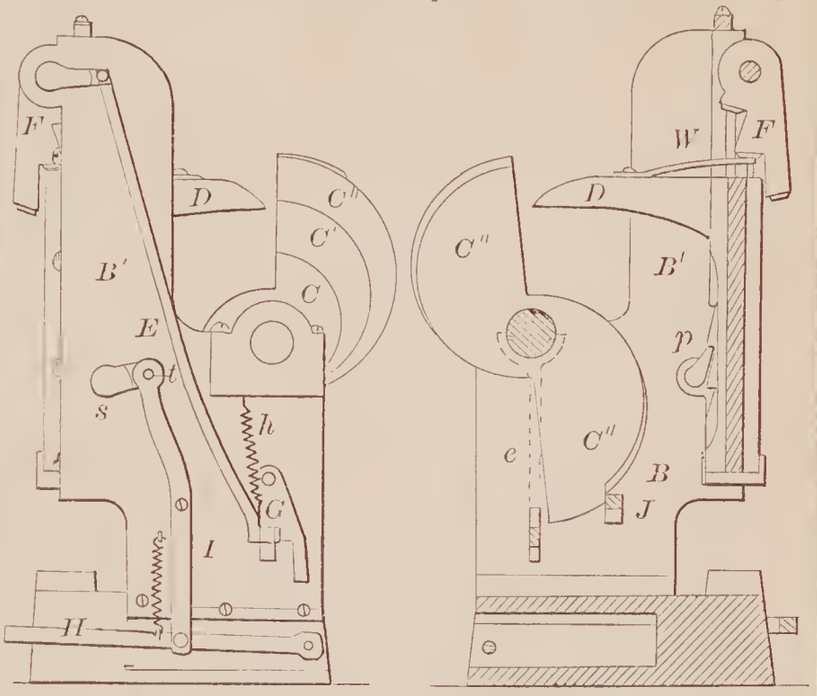




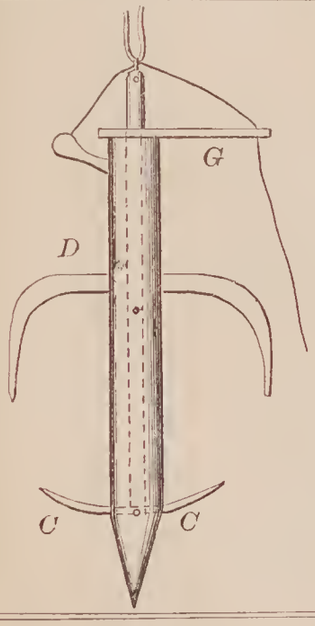
78289—S. Hyde—*Surcingle.*

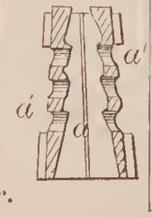


78291—T. P. Keeler—*Adjustable Hammer and Drop.*

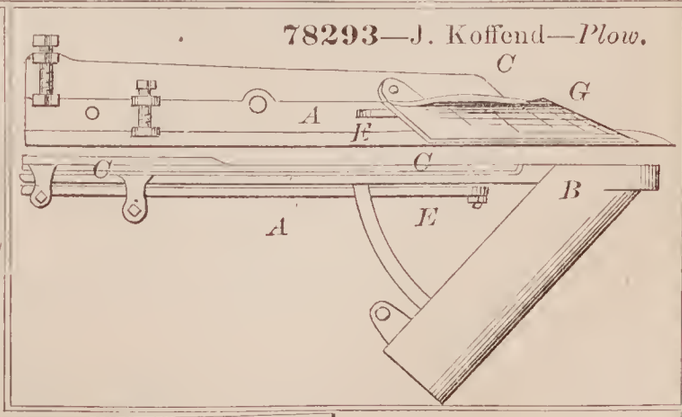


78294—H. Laird—*Horse Hay Fork.*

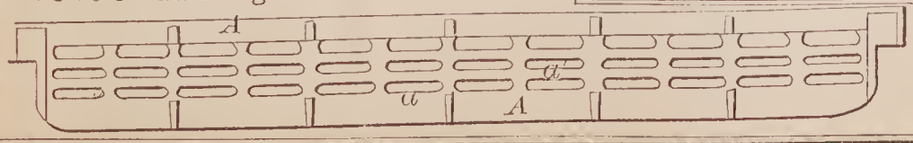




78293—J. Koffend—*Plow.*



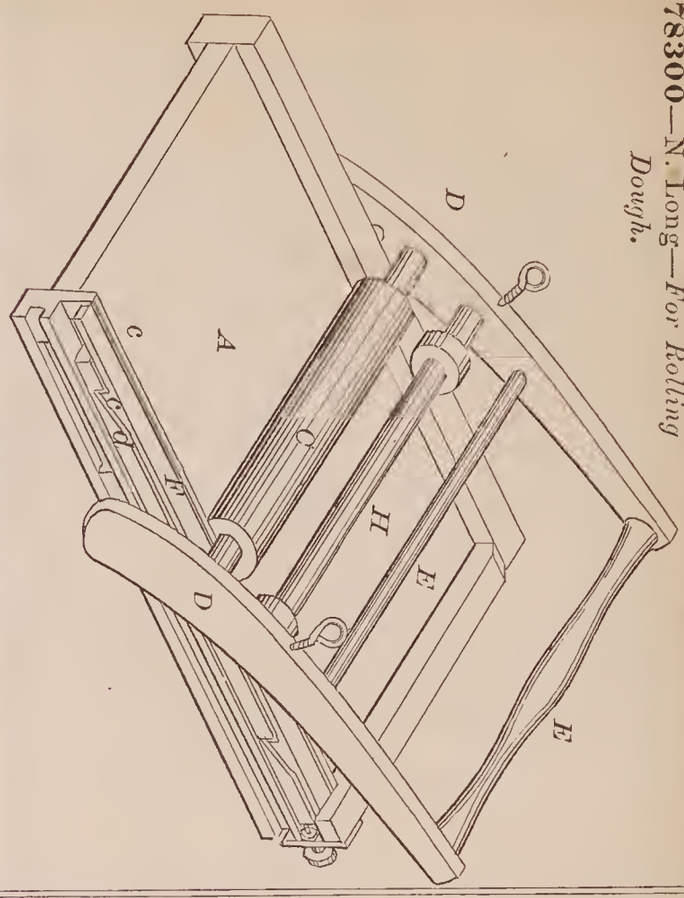
78292—H. King—*Grate Bar.*



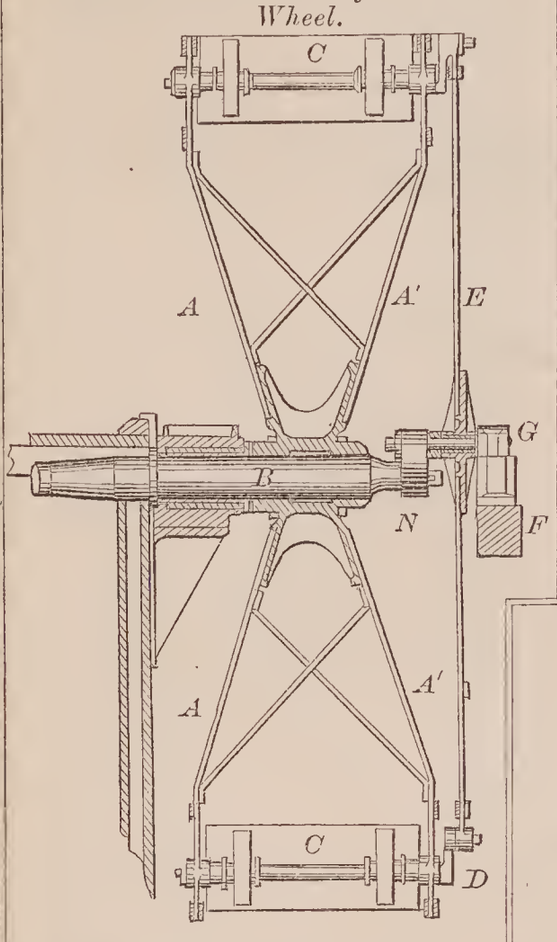
78296—E. Leigh—*Pronouncing Orthography.*

rye head

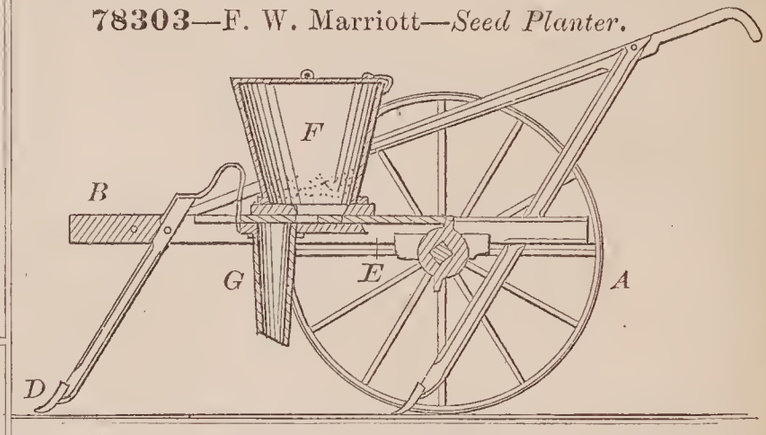
78300—N. Long—*For Rolling Dough.*



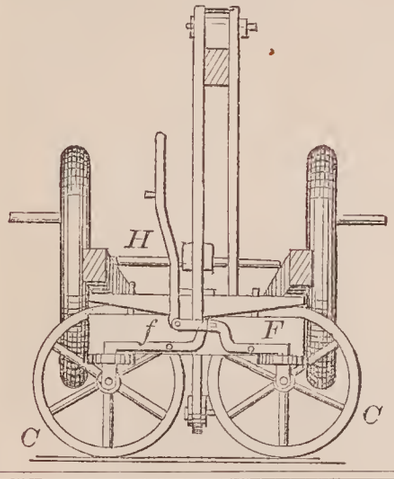
78301—W. R. Manley—*Paddle Wheel.*

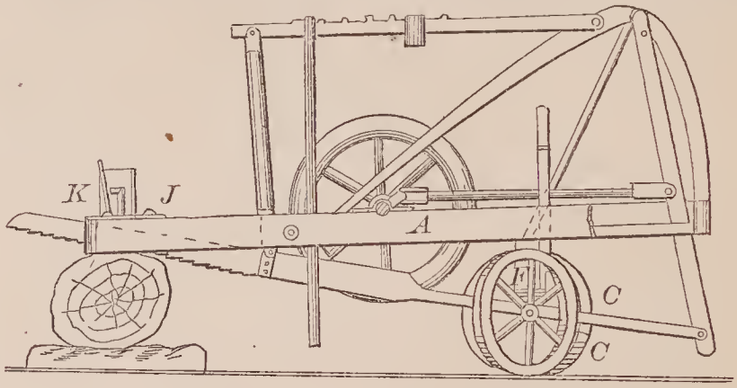


78303—F. W. Marriott—*Seed Planter.*

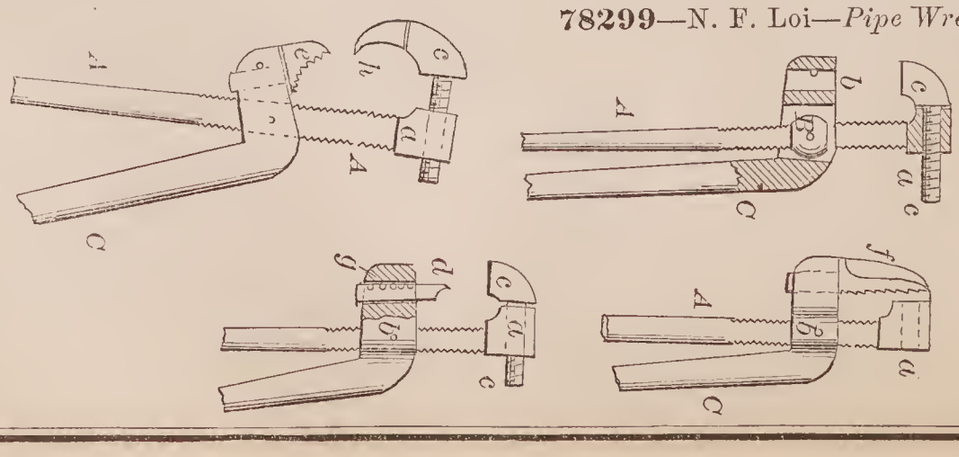


78298—J. R Logan—*Sawing Machine.*

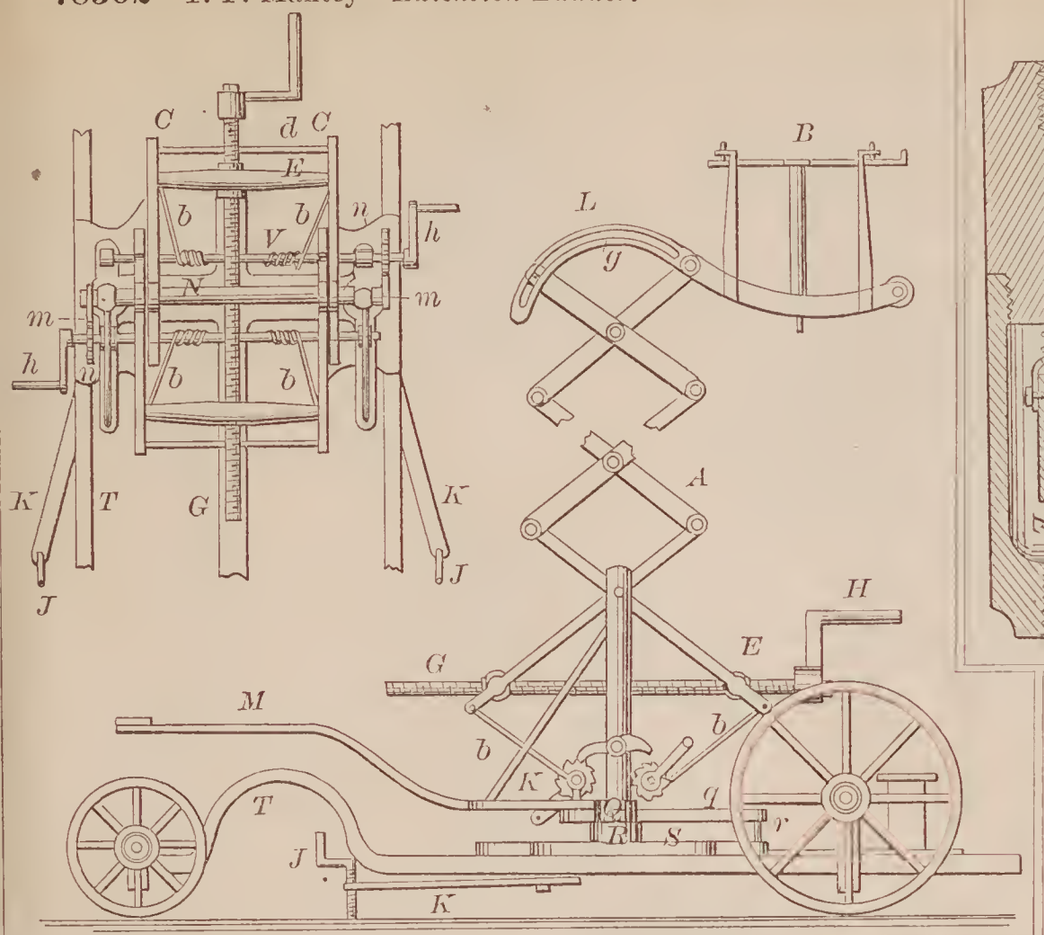




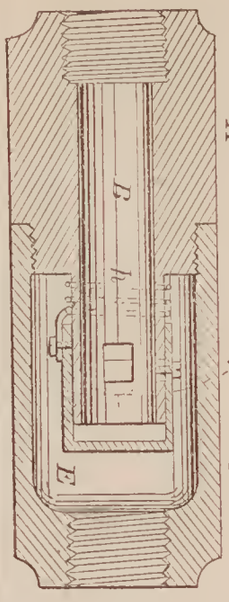
78299—N. F. Loi—*Pipe Wrench.*



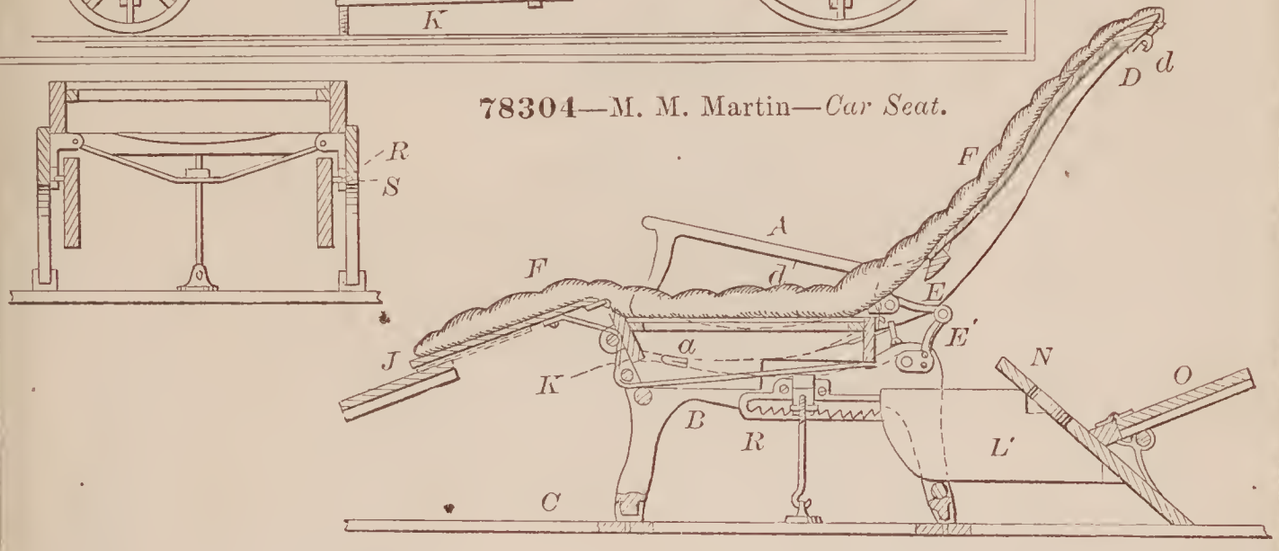
78302—T. F. Mantey—*Extension Ladder.*



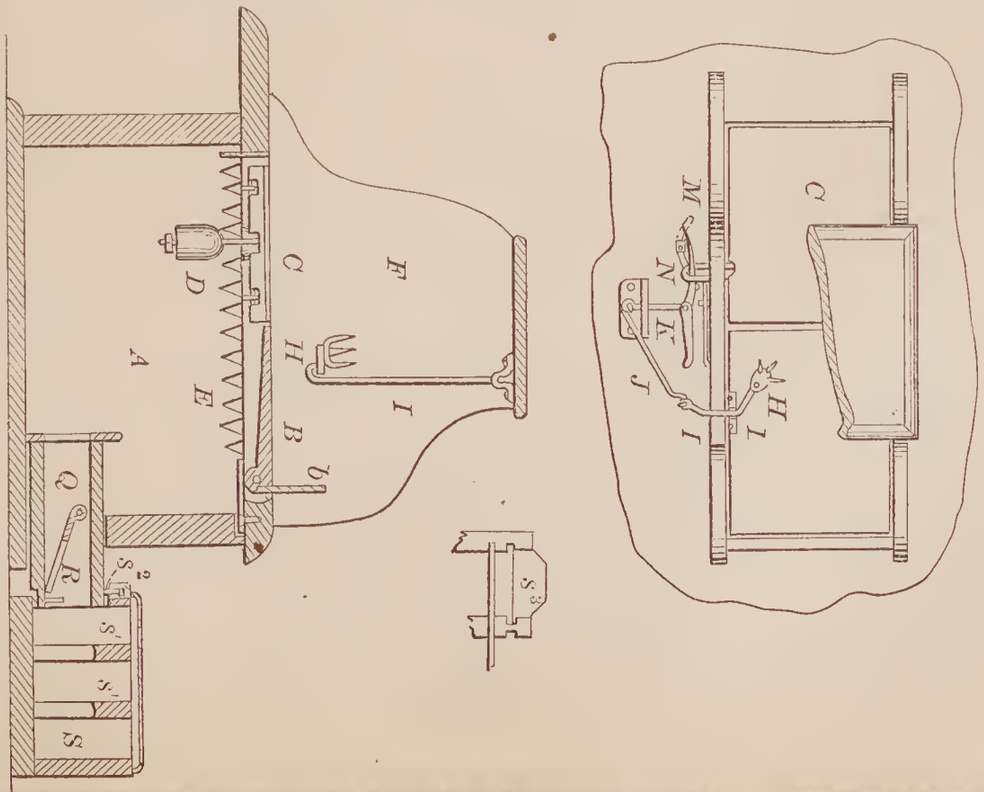
78305—S. F. Mathews—*Gas Regulator.*



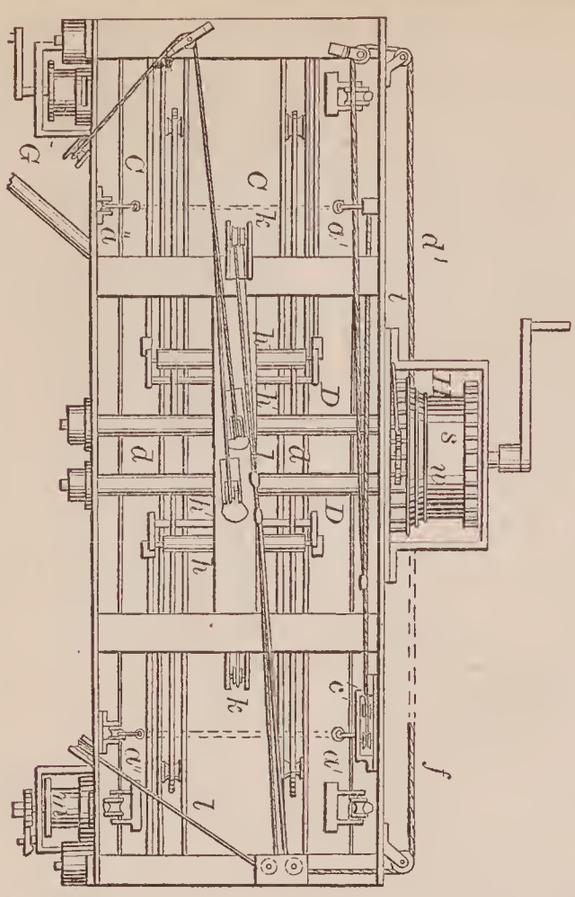
78304—M. M. Martin—*Car Seat.*

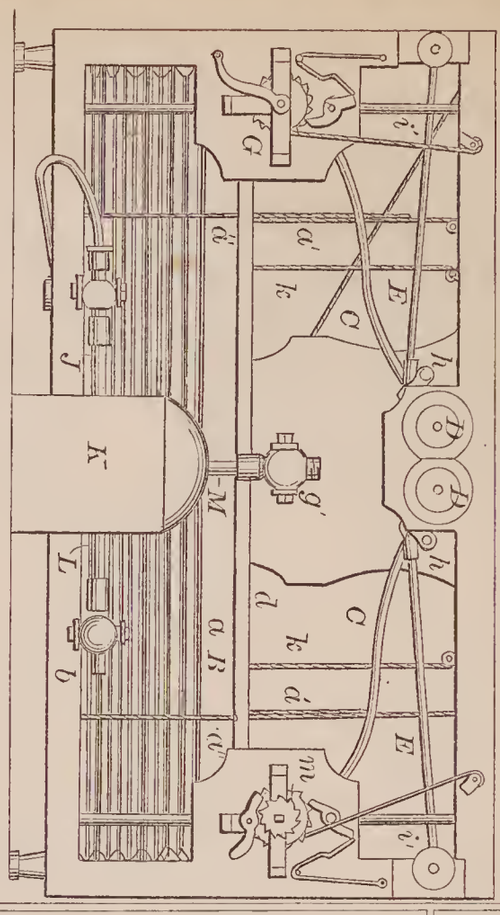


78306—J. C. McClamroch—*Animal Trap.*

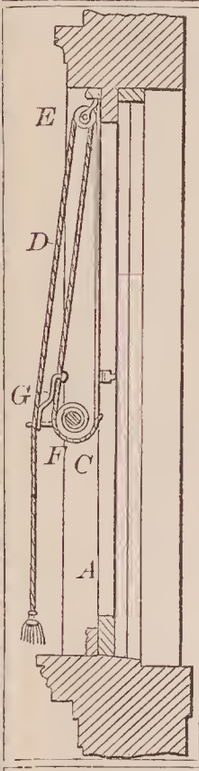


78307—J. McCleish—*Gas Apparatus.*

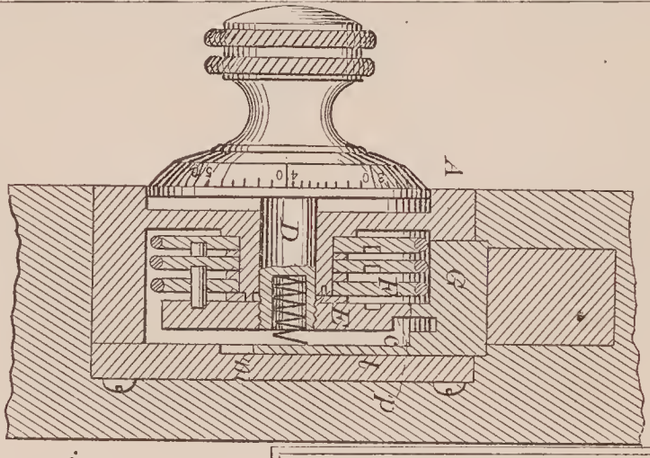


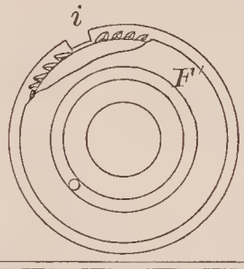


78311—J. P. Miller—*Curtain Fixture.*

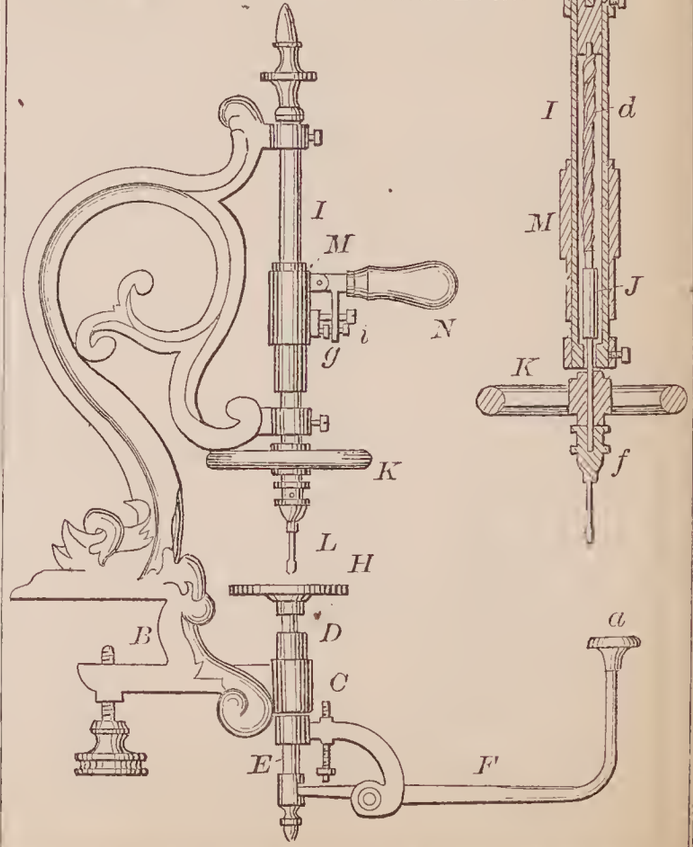


78310—D. K. Miller—*Permutation Lock.*

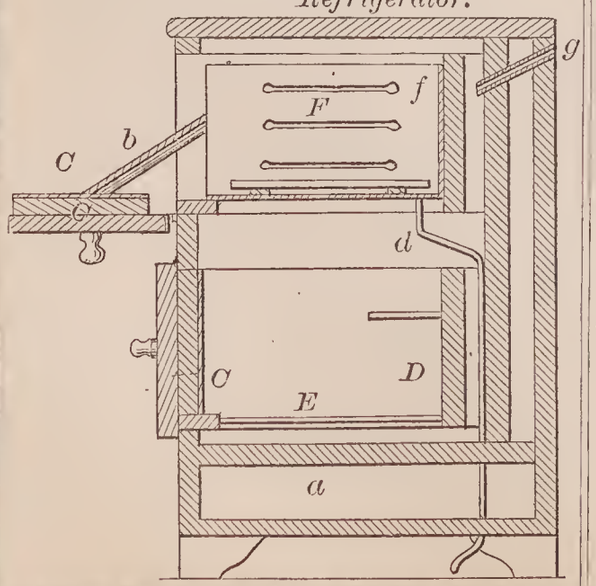




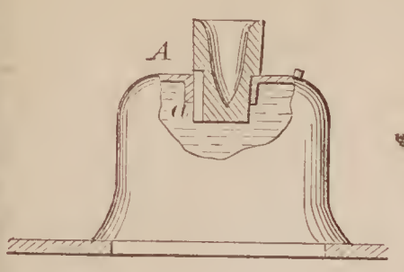
78309—C. G. Miller—*Bench Drill.*



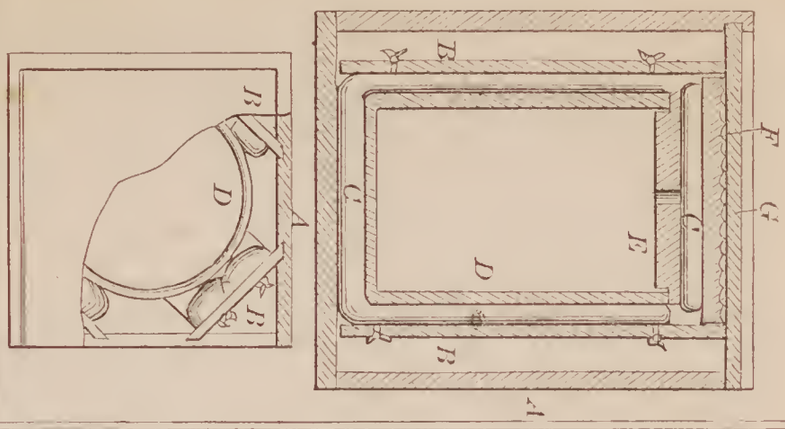
78308—M. Meyers, Jr.—*Refrigerator.*



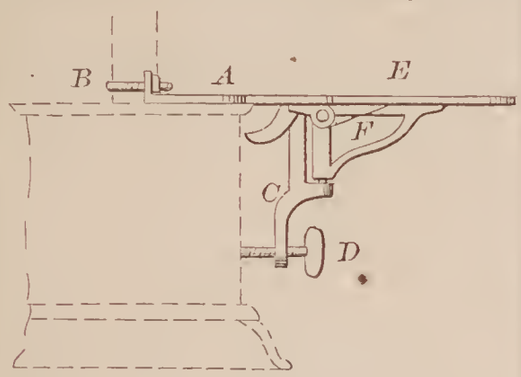
78312—G. Moebs—*Cigar Header.*



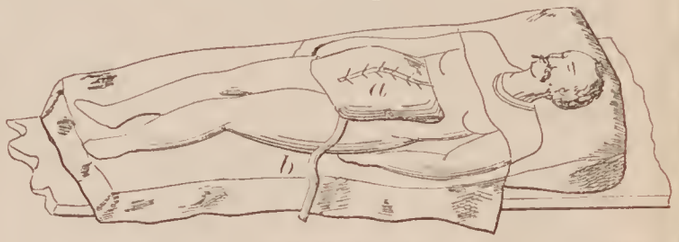
78316—M. H. Nichols—*Shipping Case.*



78315—B. Newbury—*Cooking Stove.*

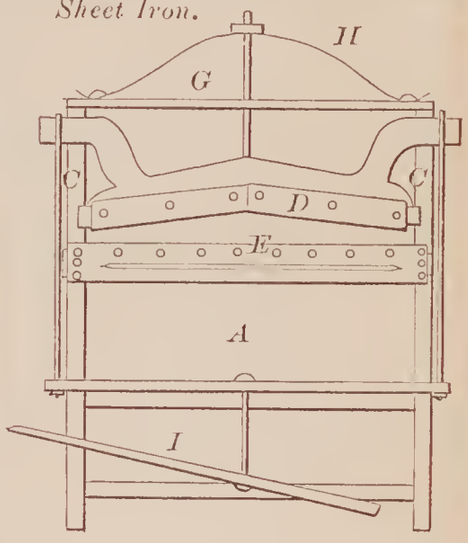


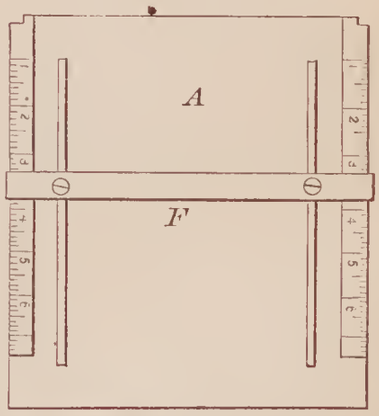
78314—M. E. Mott—*Corpse Preserver.*



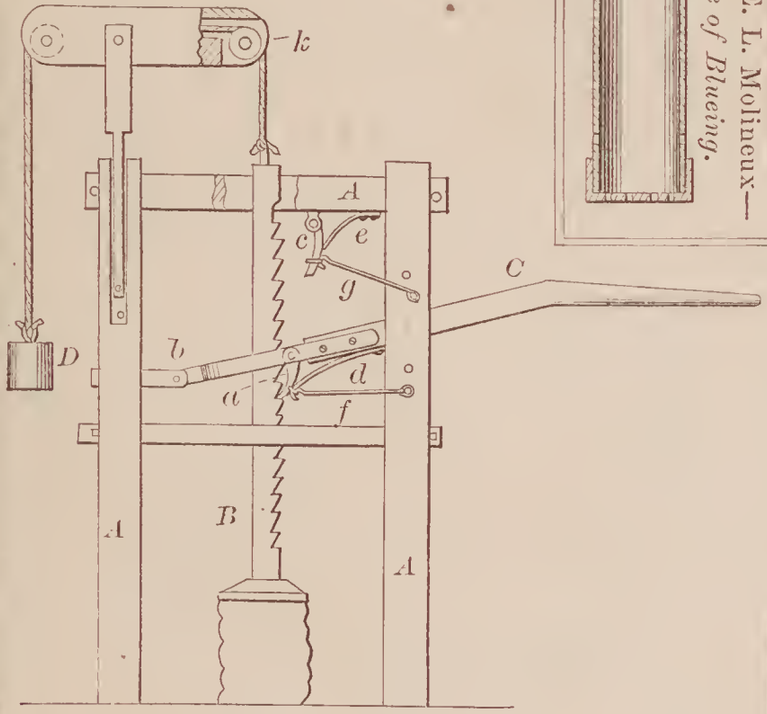
78313—E. L. Molineux—*Article of Blueing.*

78319—J. B. Osier—*For Cutting Sheet Iron.*

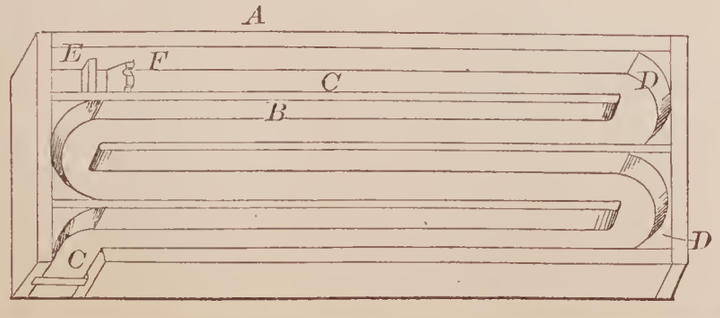




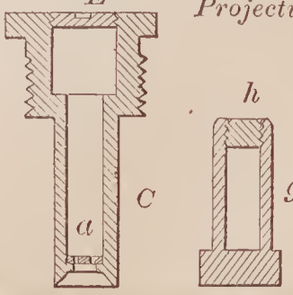
78318—B. S. Norris—*Press.*



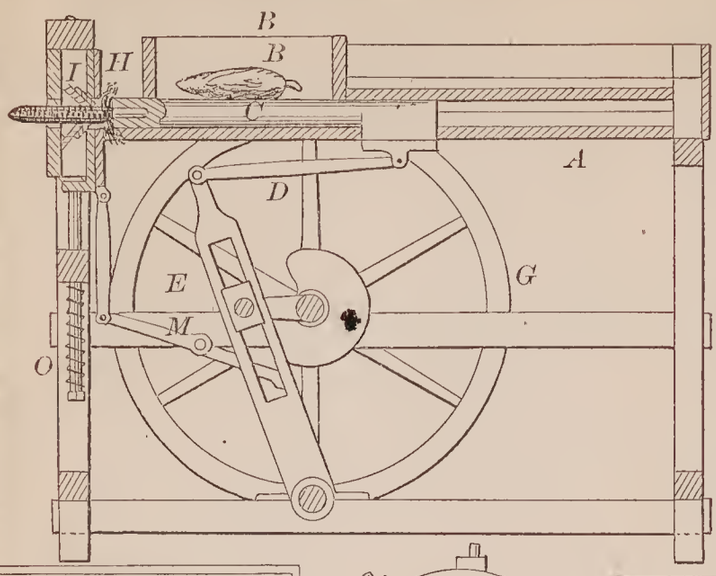
78320—J. A. Owens—*Starch Tray.*



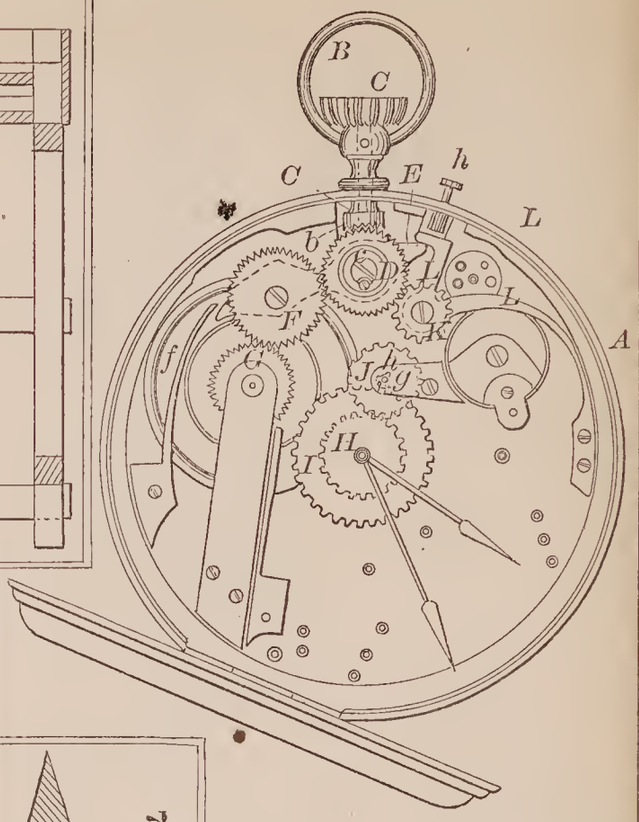
78322—Pertiuset, Mundel & de Fleron—*For Igniting Explosive Projectiles.*



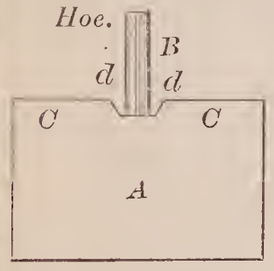
78321—T. Percival—*Corn Husker.*

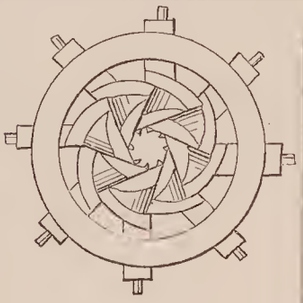


78323—L. V. Piquet—*Watch.*

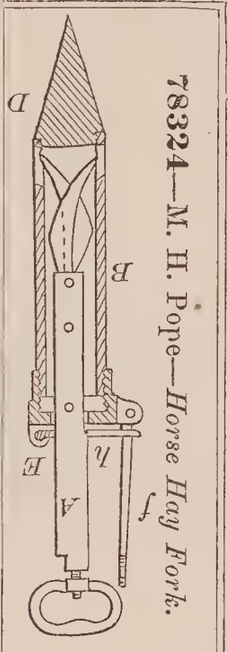


78326—L. T. Richardson—*Hoe.*

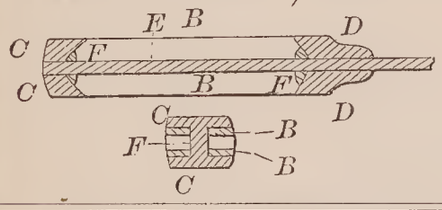




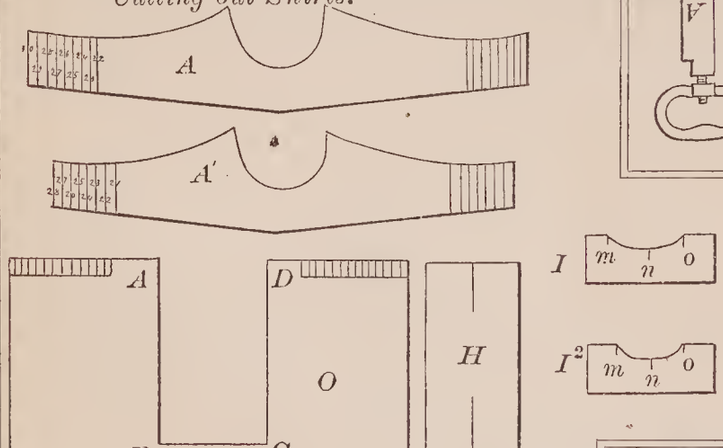
78324—M. H. Pope—*Horse Hay Fork.*



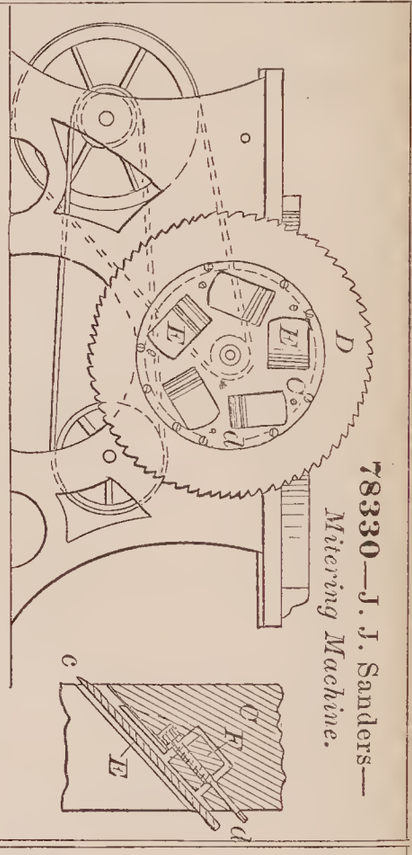
78328—M. Rubel—*Cutlery.*



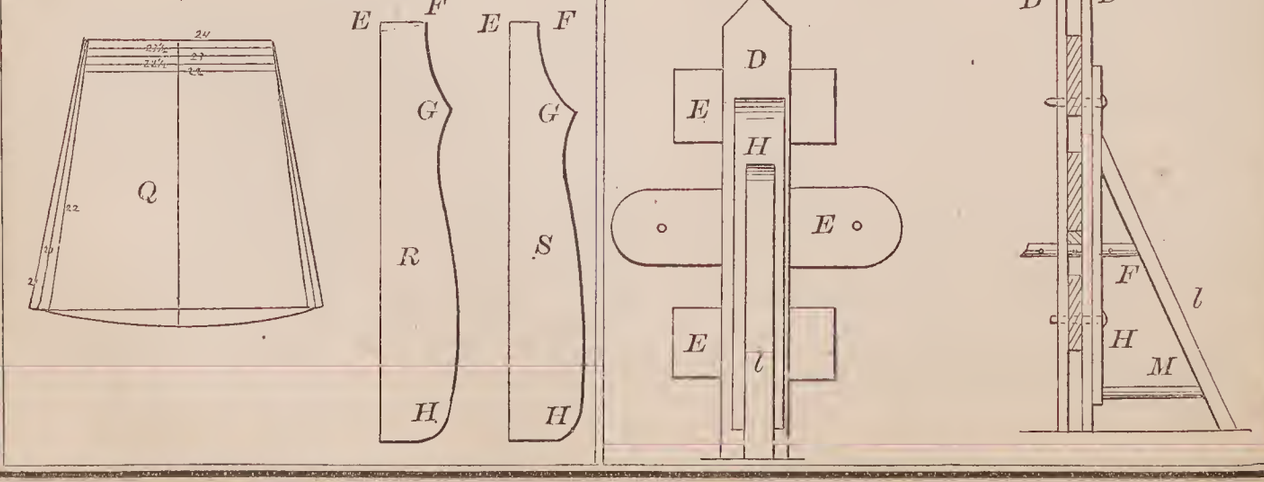
78325—J. W. Rand—*Pattern for Cutting out Shirts.*



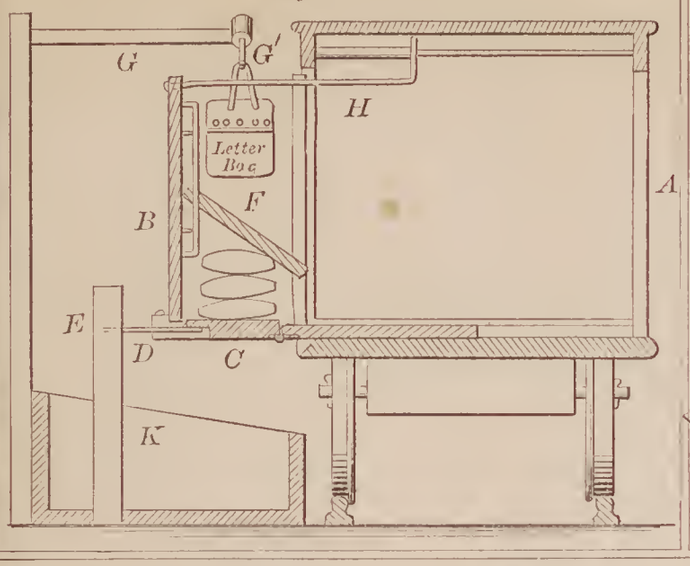
78330—J. J. Sanders—*Mitering Machine.*



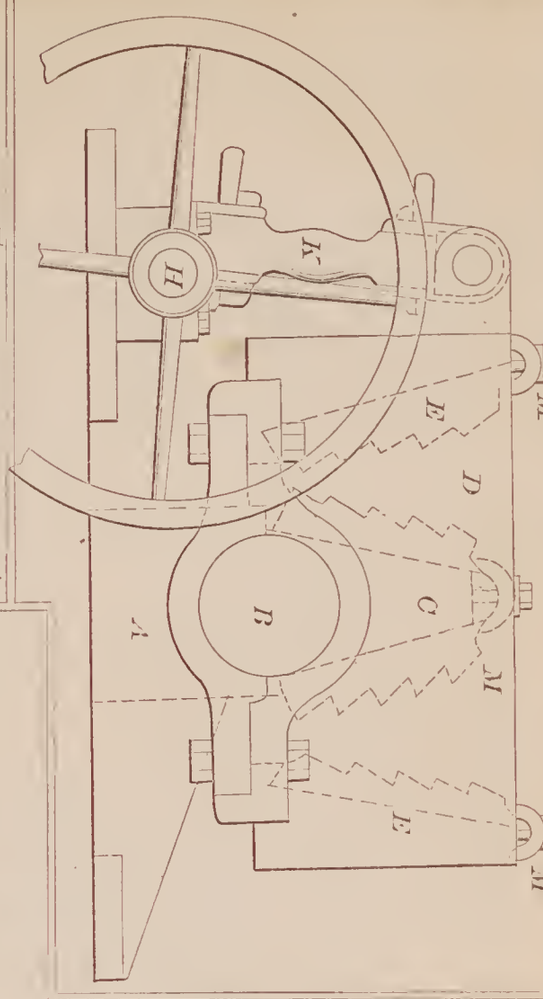
78329—R. Samuel—*Portable Fence.*



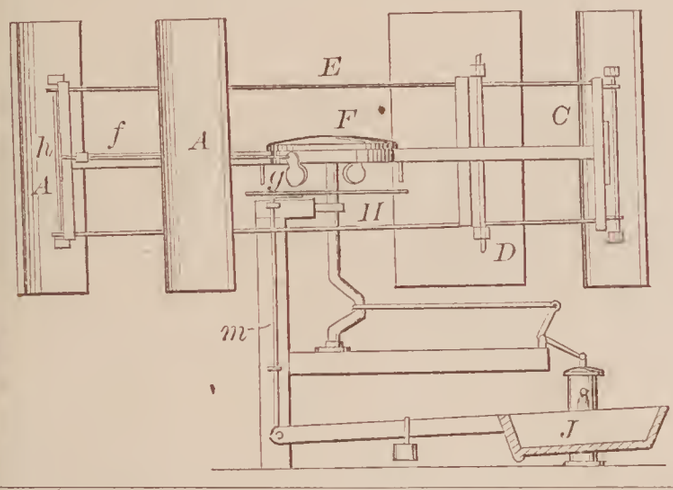
78331—W. G. Sanford—*Mail Car and Mail Bag Receiver.*



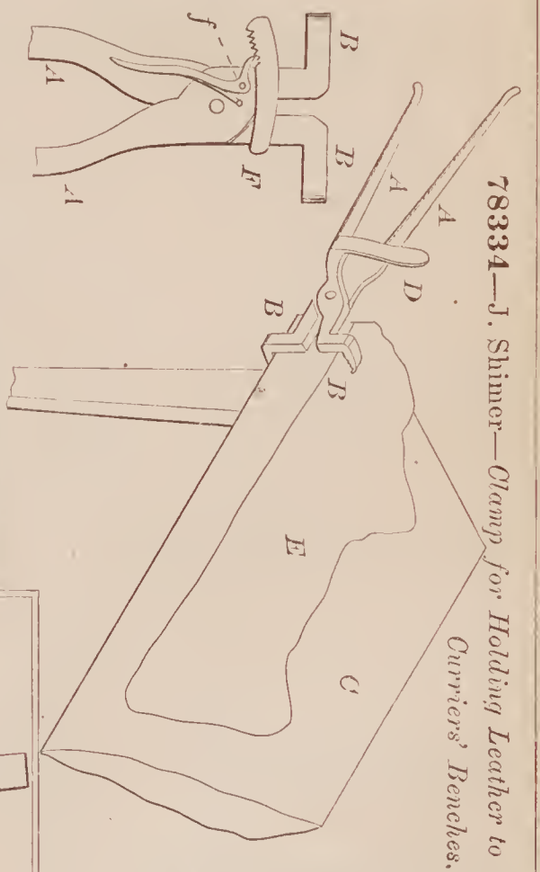
78332—H. H. Scoville—*Stone Breaker.*



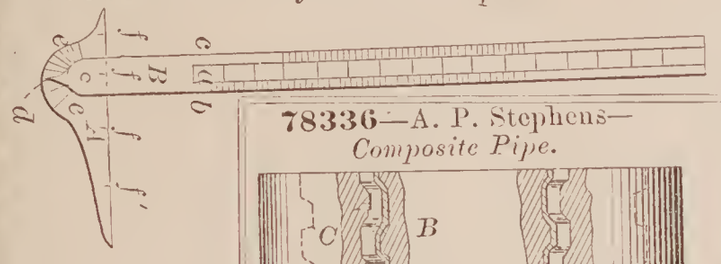
78333—Shaw & Tindall—*Wind Mill.*



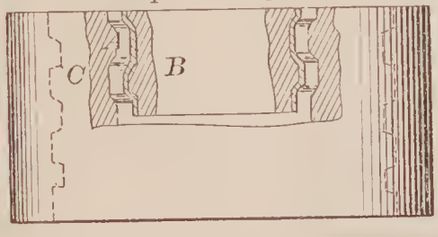
78334—J. Shimer—*Clamp for Holding Leather to Curriers' Benches.*



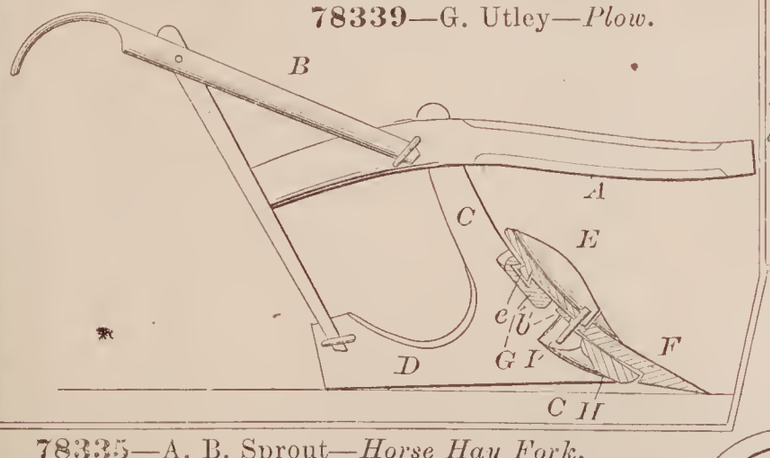
78338—D. Tierney—*Tailors' Square.*



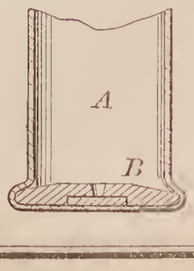
78336—A. P. Stephens—*Composite Pipe.*



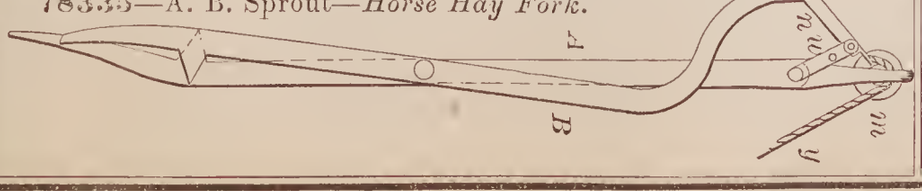
78339—G. Utley—*Plow.*



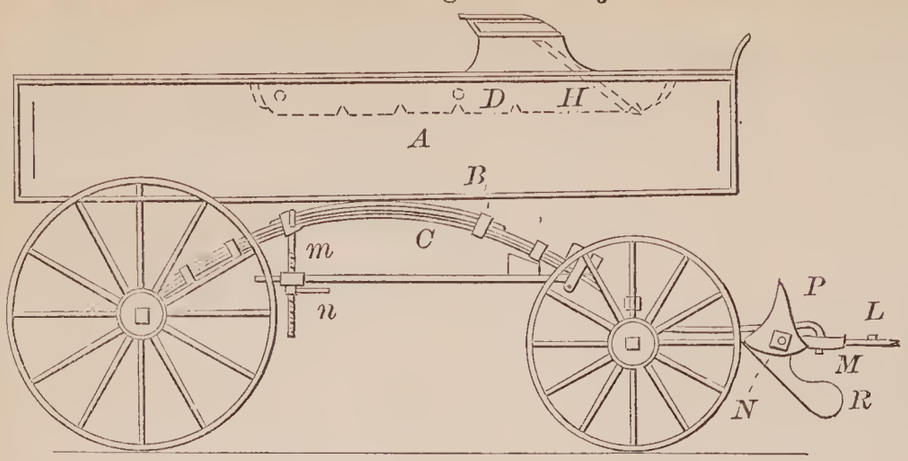
78337—W. Tibbals—*Priming Cartridges.*



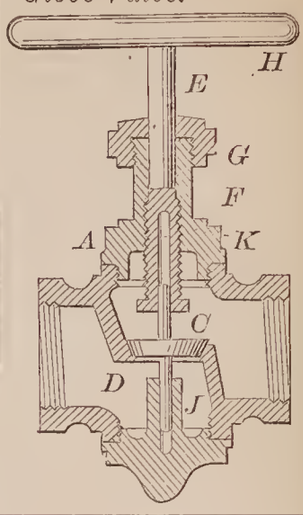
78335—A. B. Sprout—*Horse Hay Fork.*



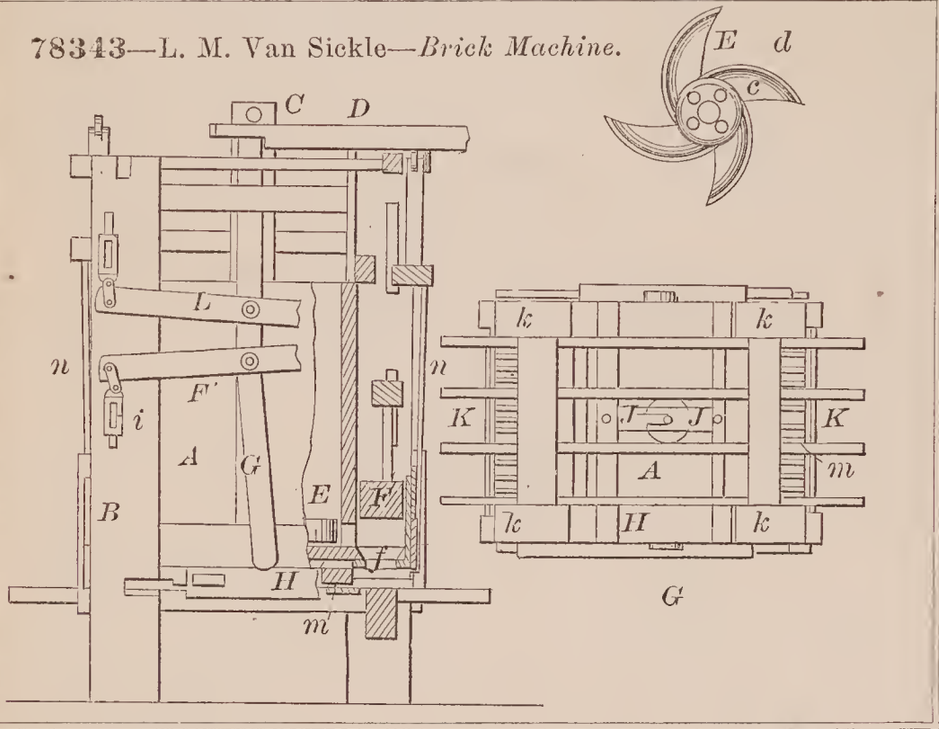
78340—J. D. Van Hoevenbergh—*Carriage.*



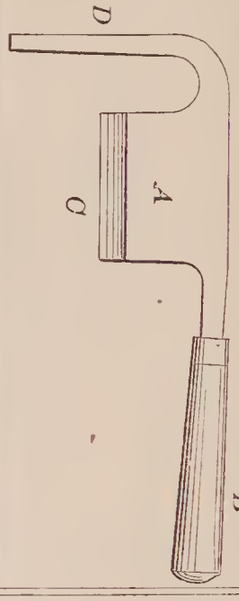
78342—J. B. T. Van Patten—*Globe Valve.*



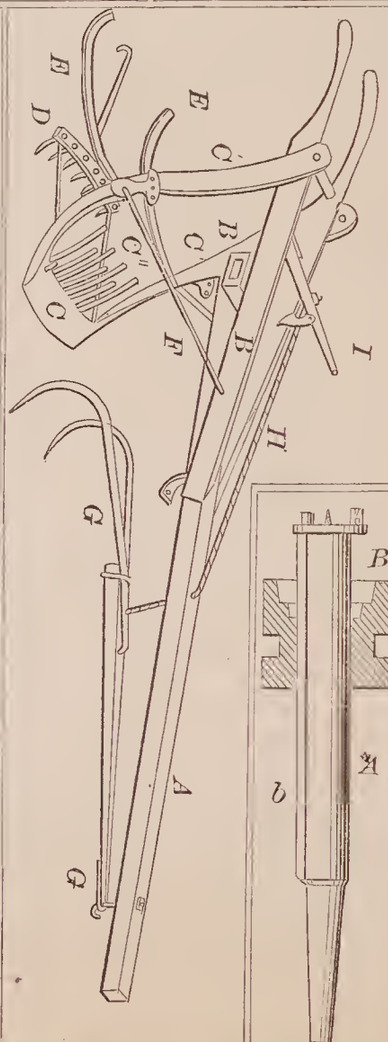
78343—L. M. Van Sickle—*Brick Machine.*



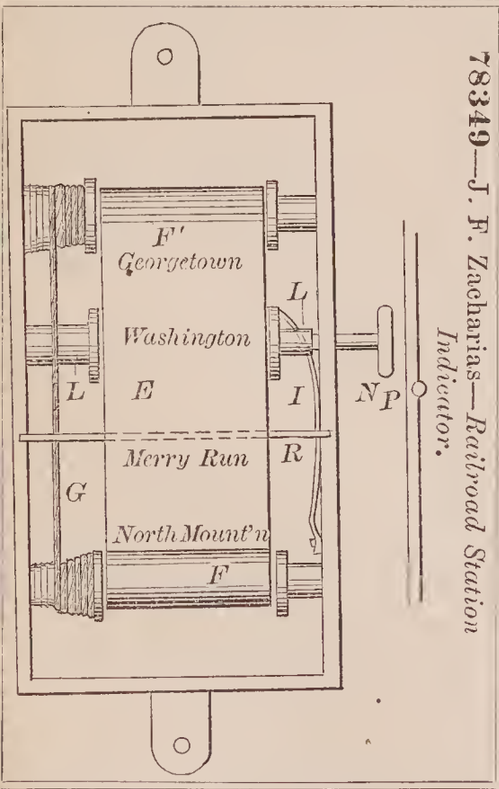
78344—J. Van Winkle—*Wood Cleaver.*



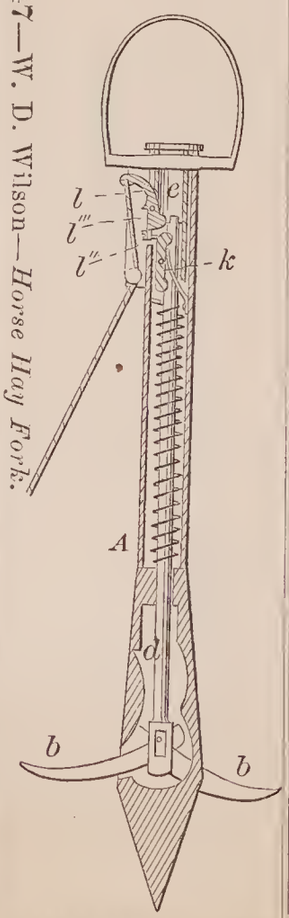
78345—G. Vowles—*Potato Digger.*



78349—J. F. Zacharias—*Railroad Station Indicator.*

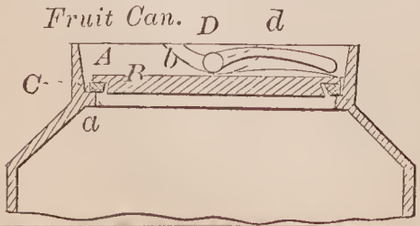


78347—W. D. Wilson—*Horse Hay Fork.*

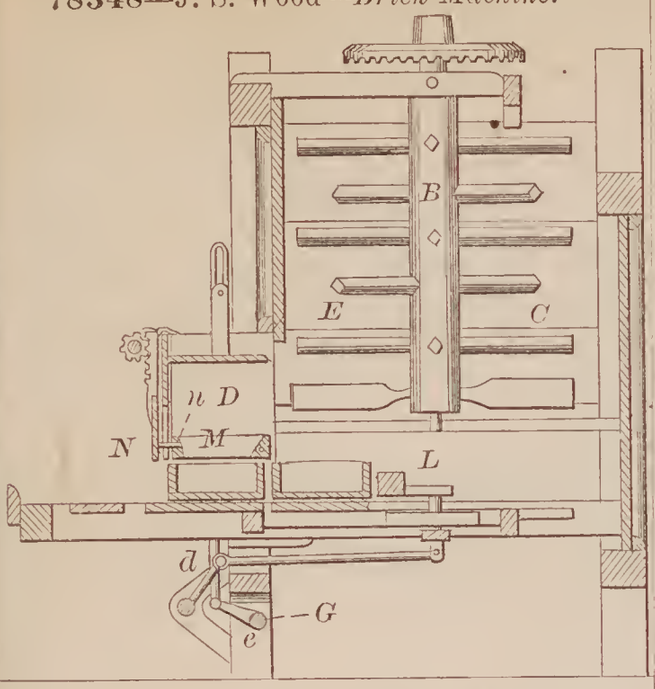


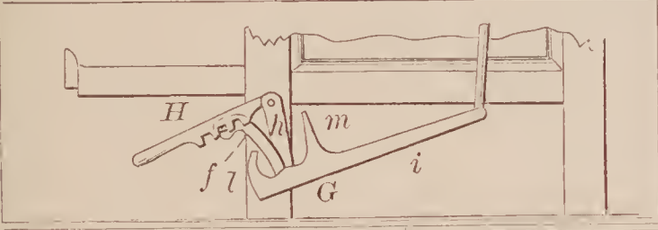
78341—A. J. Van Ornum—*Wood Turning Lathe.*

78346—J. R. Williamson—*Fruit Can.*

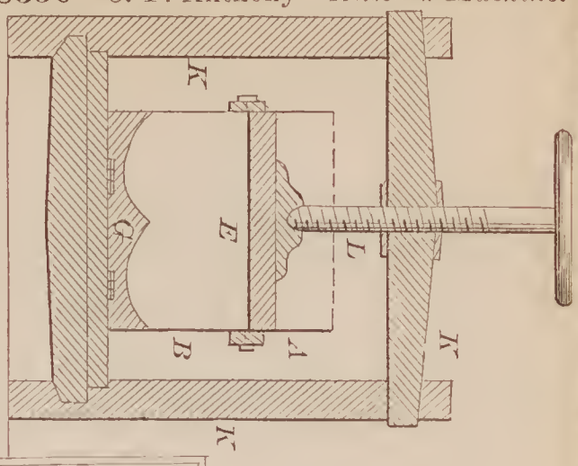


78348—J. S. Wood—*Brick Machine.*

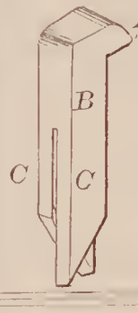


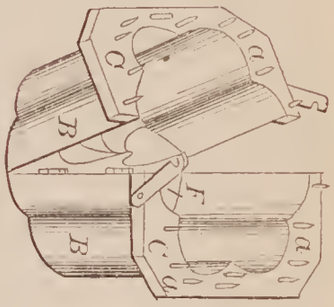


78350—C. F. Anthony—*Hassock Machine.*

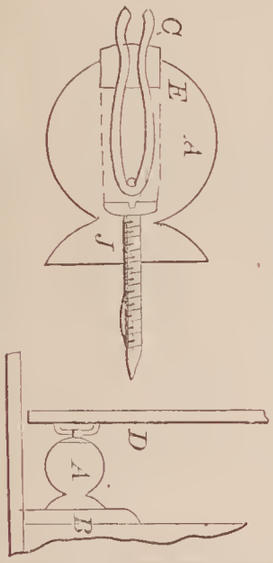


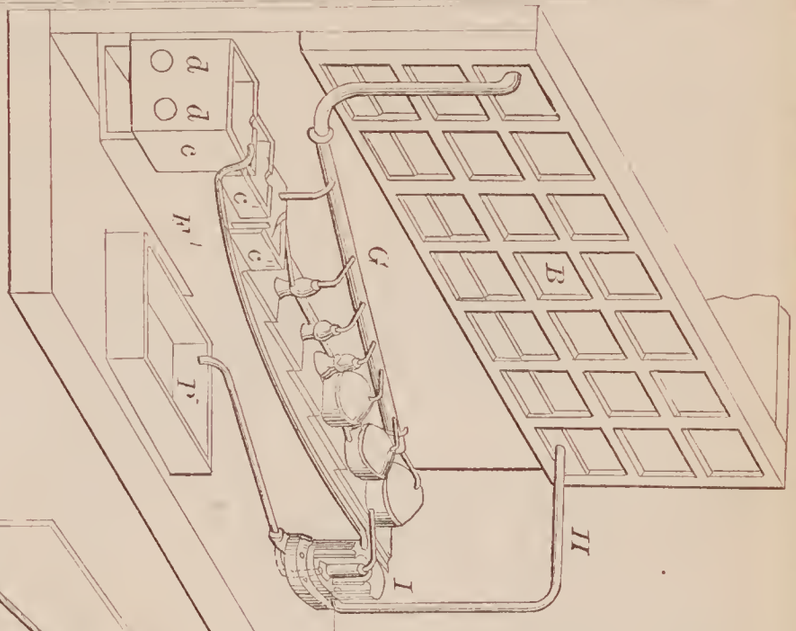
78354—J. Balmer—*Spike.*



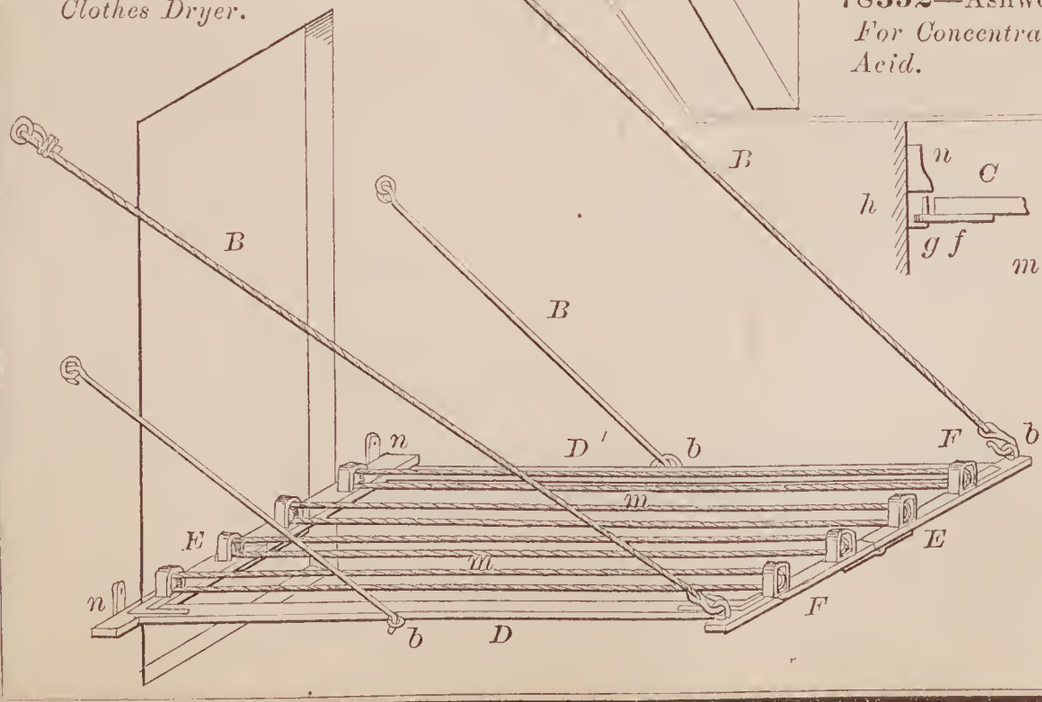


78355—C. W. Barnes—*Spring Catch and Stop.*

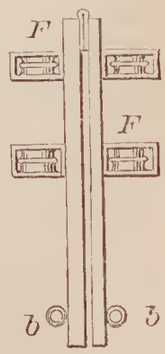




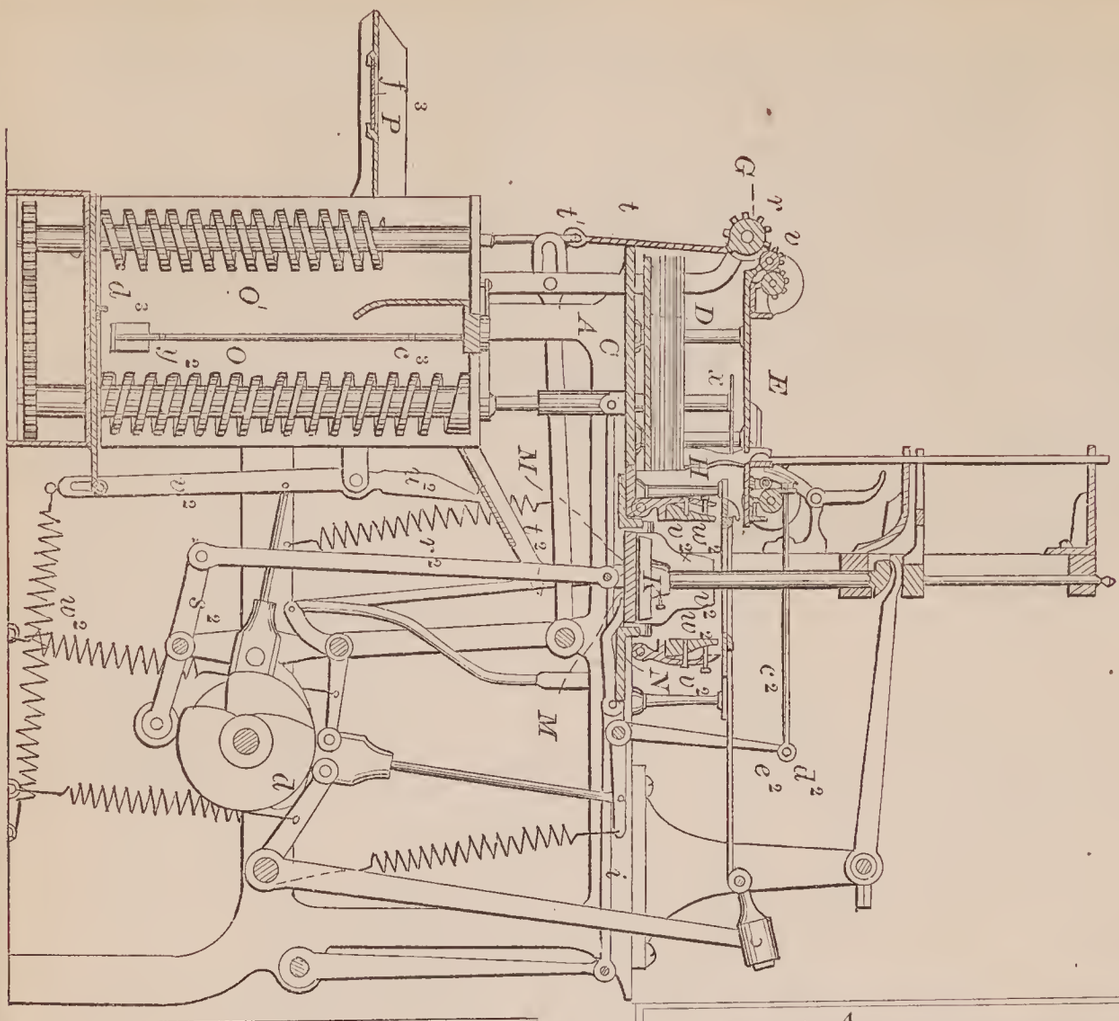
78351—W. Arrouquier—*Clothes Dryer.*

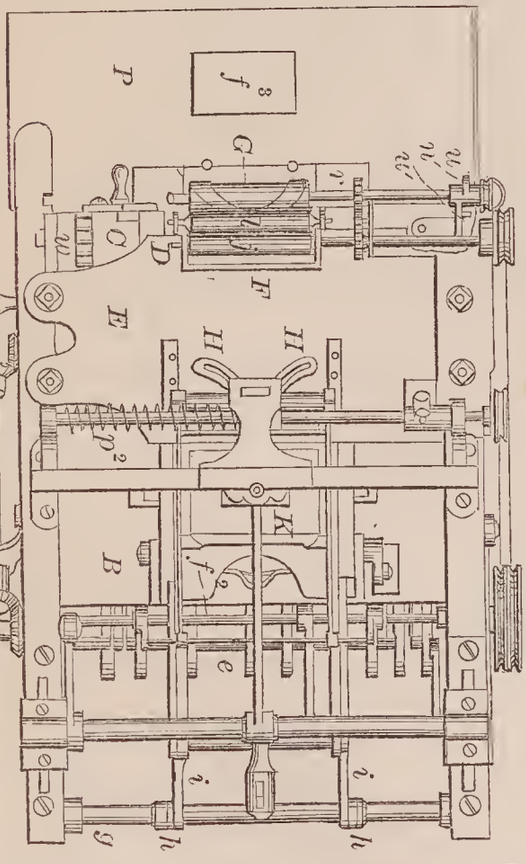


78352—Ashworth & Eaton—*For Concentrating Sulphuric Acid.*

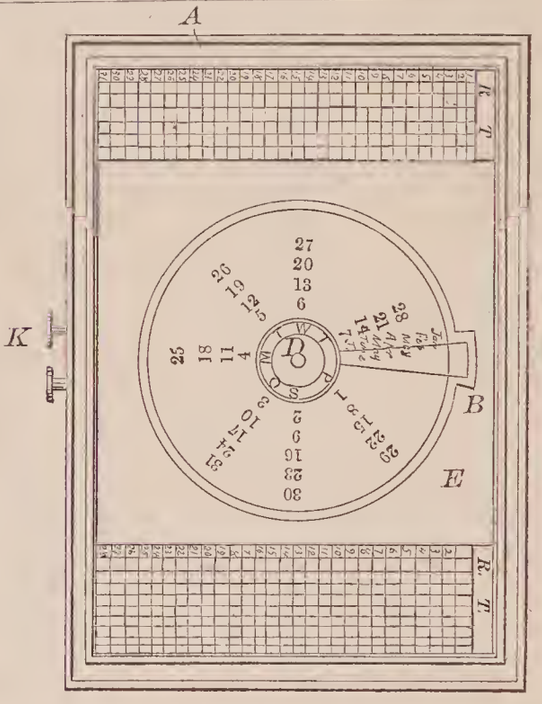


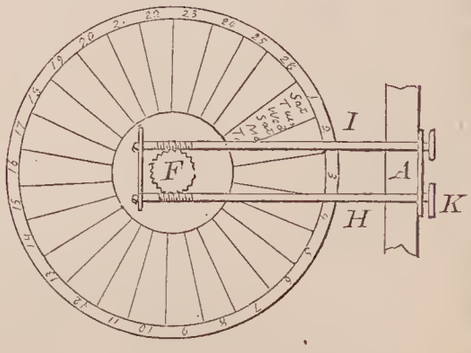
78353—J. Ball—*Envelope Machine.*



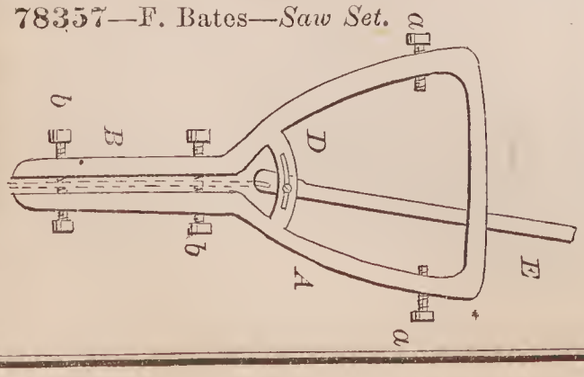


78356—S. L. Barinds—*Perpetual Calendar.*

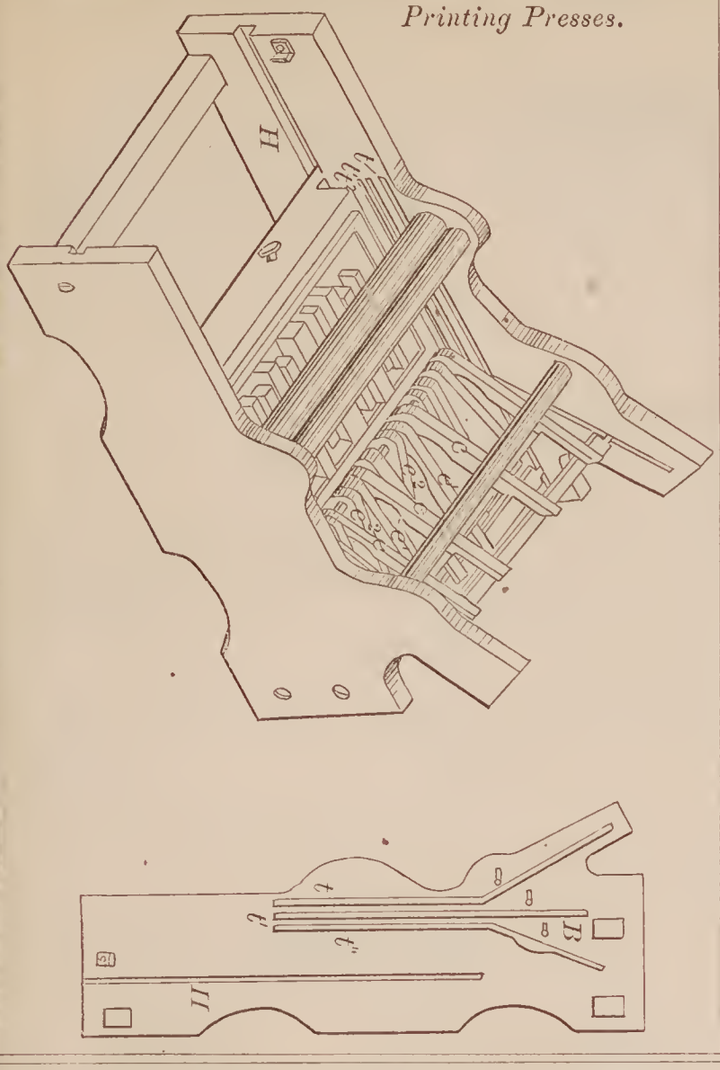




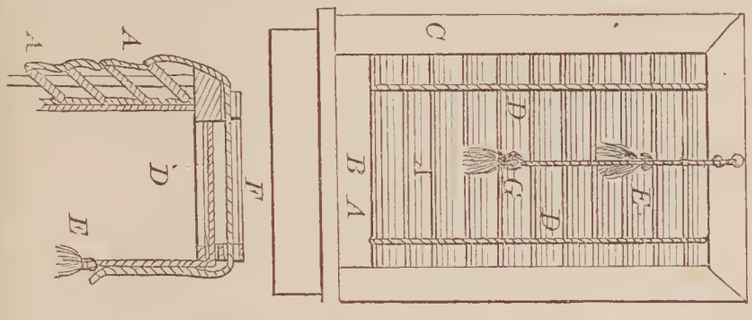
78357—F. Bates—*Saw Set.*



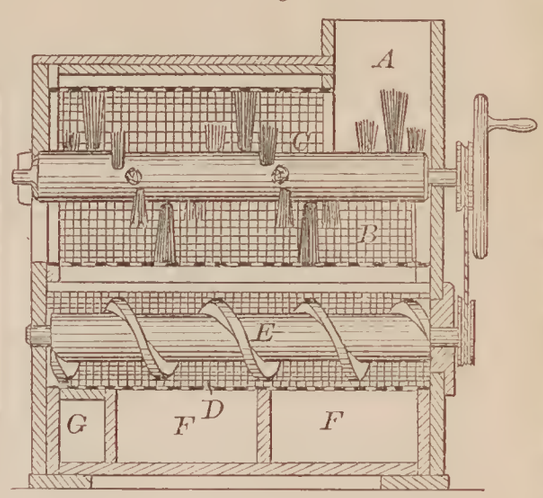
78358—T. L. Baylies—*Inking Apparatus for Printing Presses.*



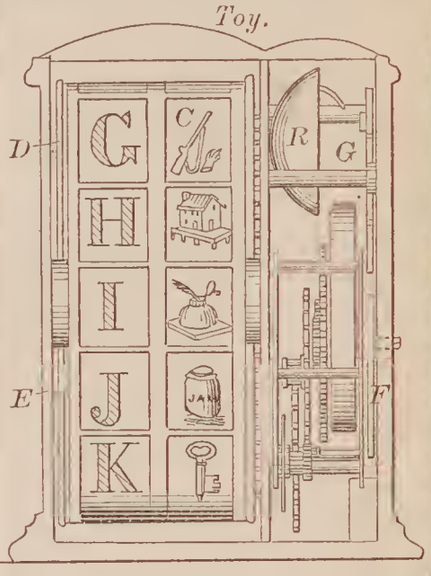
78359—Bellairs & Demott—*Window Blind.*

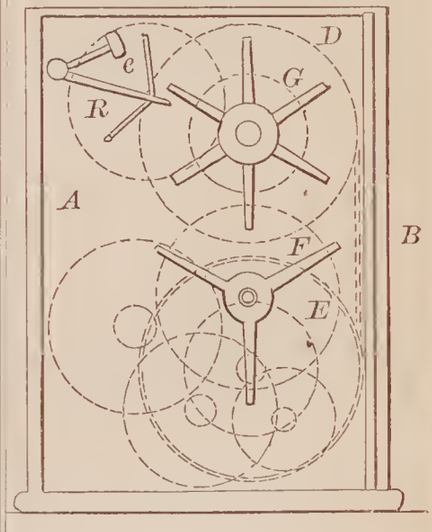


78360—Borgfeldt & Ritterhoff—*For Granulating Tobacco.*

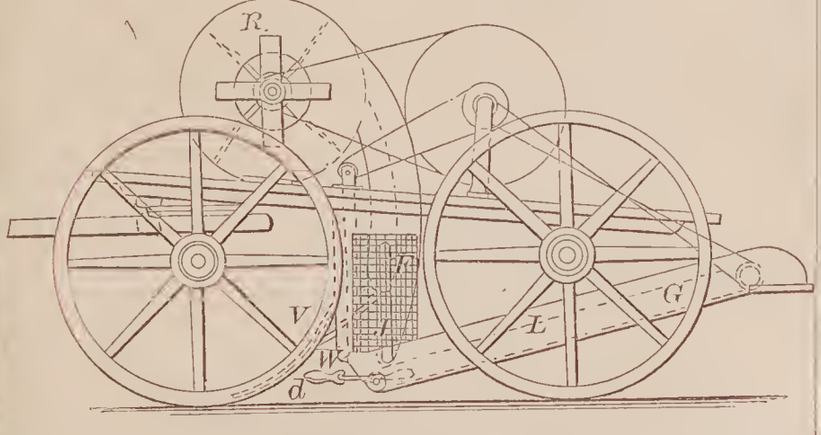


78361—R. J. Clay—*Alphabet Toy.*

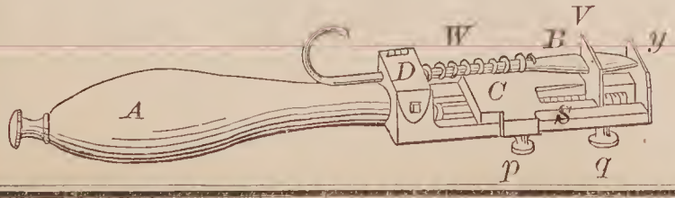




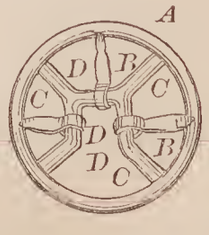
78362—R. F. Cooke—*Cotton Picker*



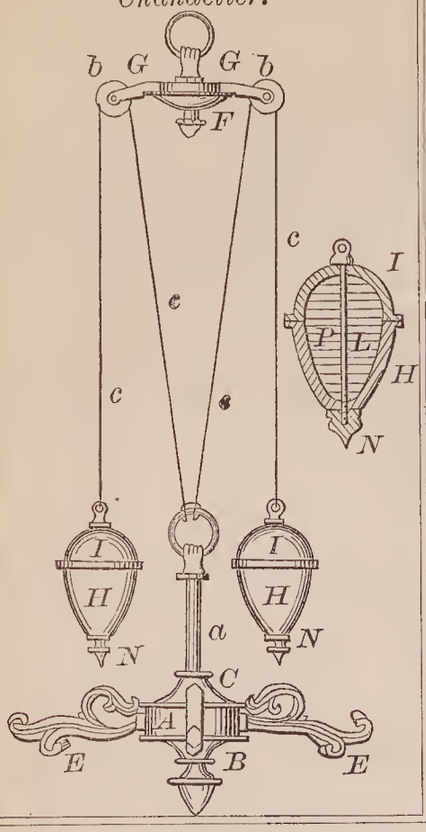
78363—W. De Camp—*Paring Knife for Boots and Shoes.*



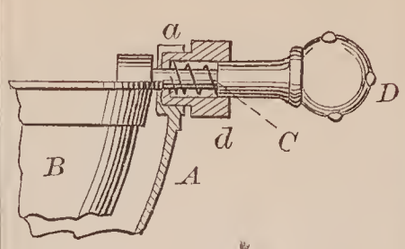
78364—P. S. Crawford—*Harness Buckle.*



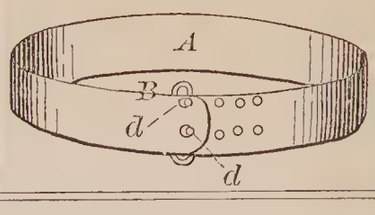
78365—J. A. Evarts—*Chandelier.*



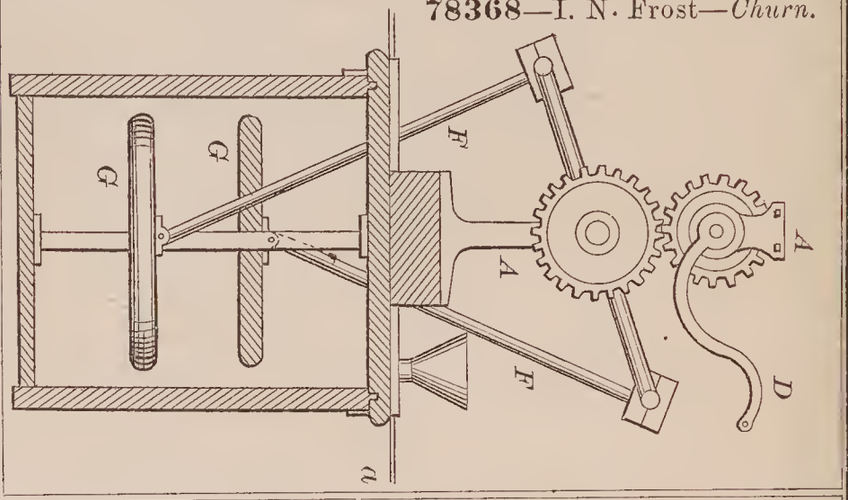
78366—W. A. Fenn—*Covered Dish.*



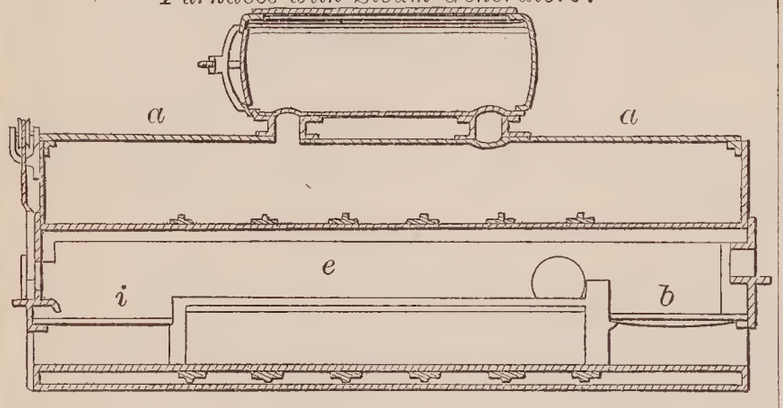
78367—M. I. Findley—*Waist Belt or Girdle.*



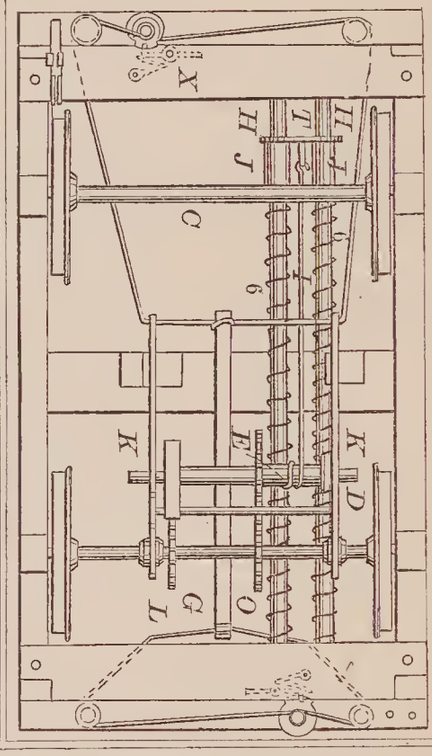
78368—I. N. Frost—*Churn.*



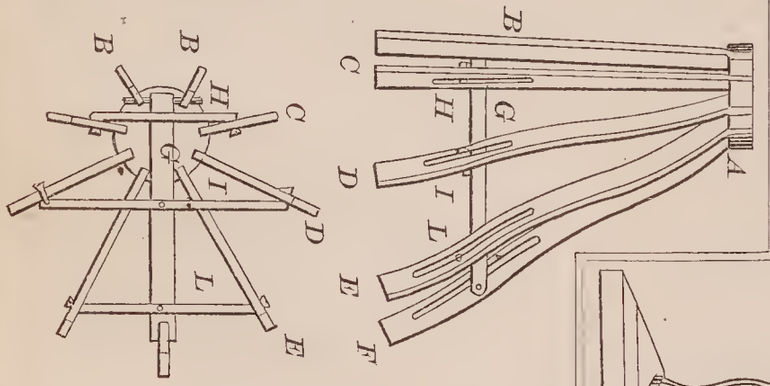
78370—Hawksley & Wild—*Combination of Puddling Furnaces with Steam Generators.*



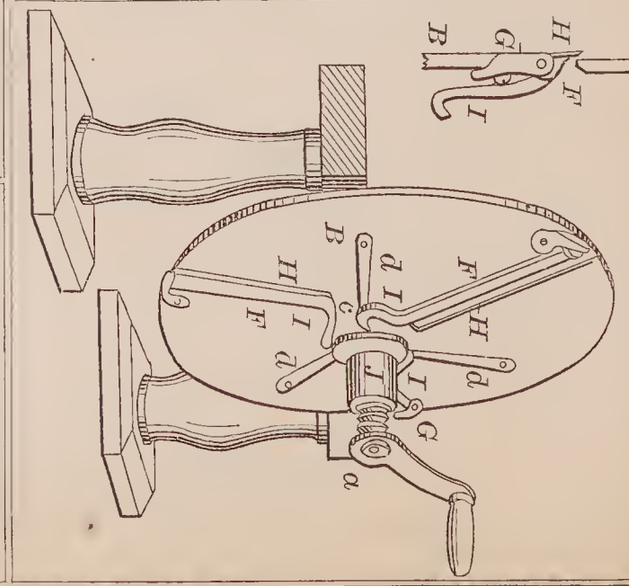
78371—M. Henderson—*Car Brake and Starter.*



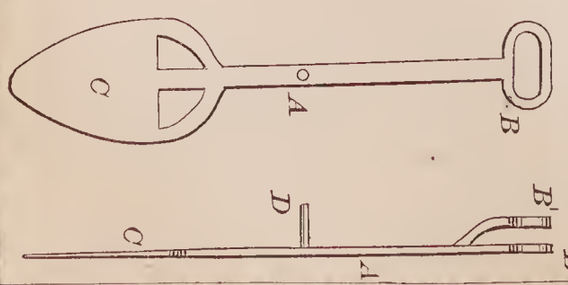
78374—F. Hull—*Skirt Former.*



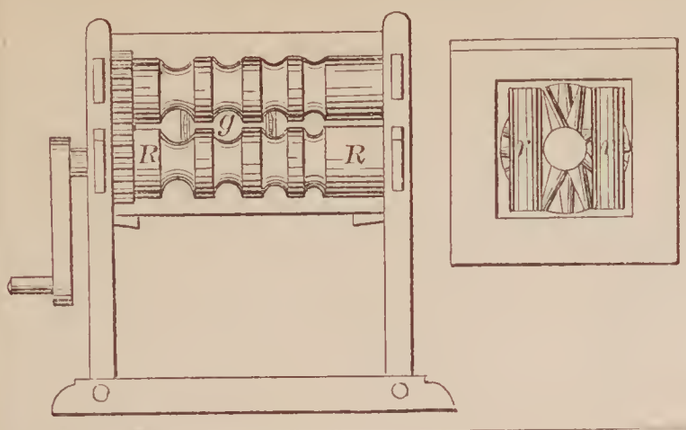
78373—E. Holmes—*Vegetable Slicer.*



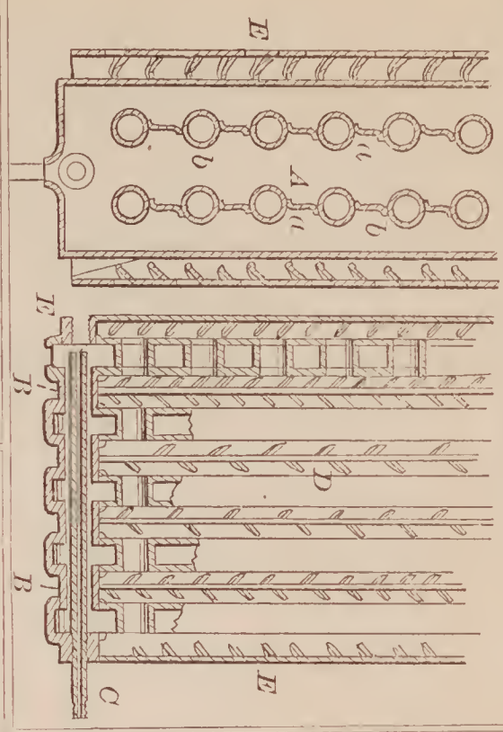
78369—F. Gerfen—*Hay Cutter.*



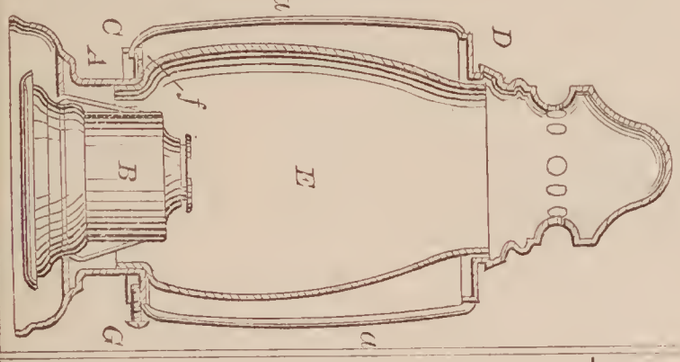
78376—J. A. Hunter—*For Straightening Tobacco.*



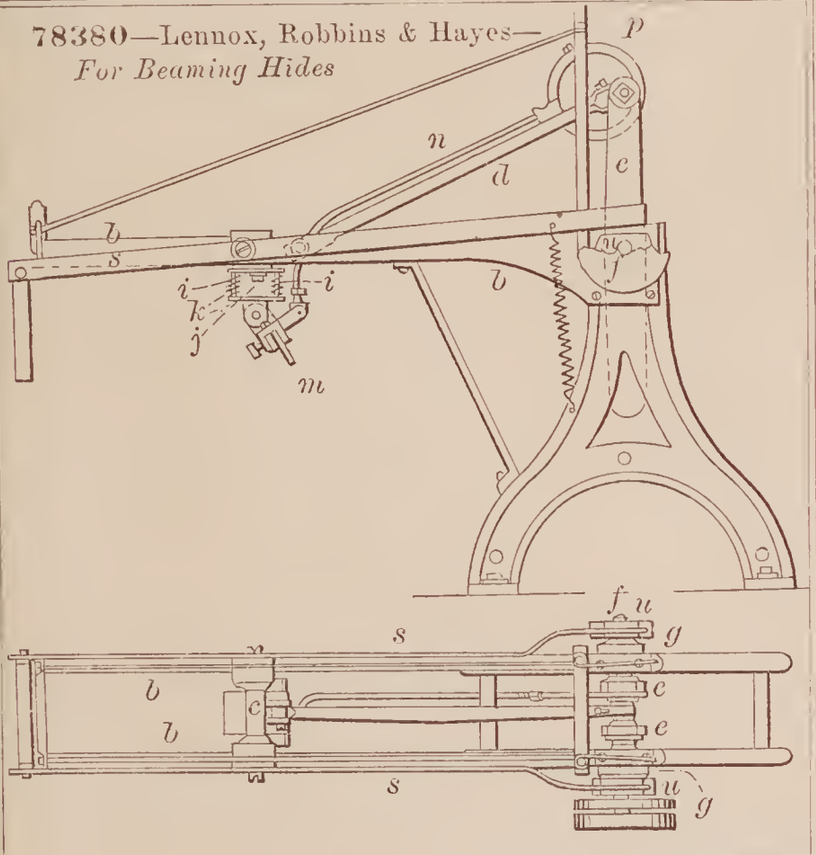
78377—Kessler & Carlisle—*Steam Heater.*



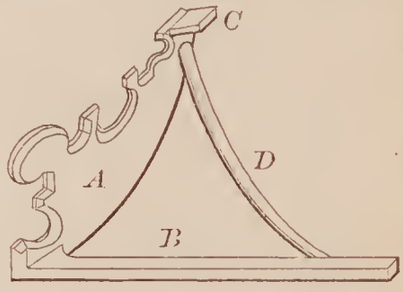
78378—T. Langston—*Lantern.*



78380—Lennox, Robbins & Hayes—*For Beaming Hides*

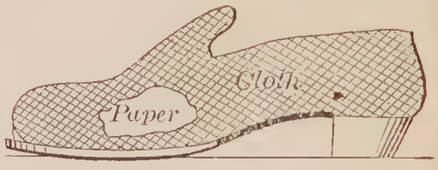


78381—A Leverty—*Running Cornice.*

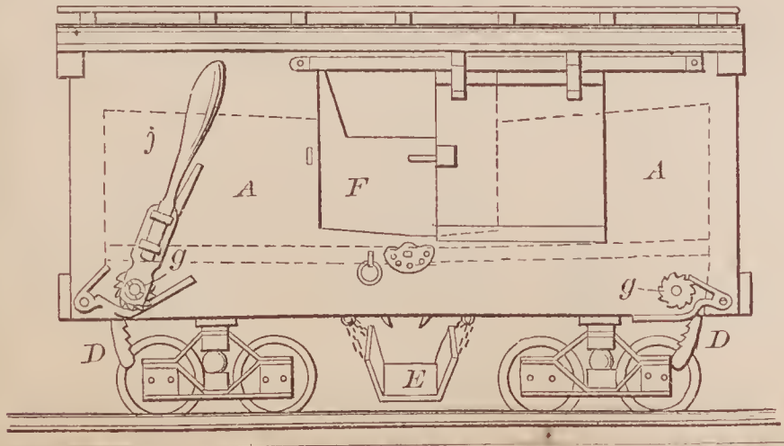


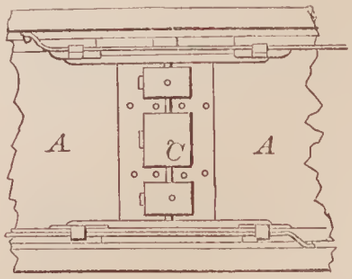
78382—W. Lindon—*Watch Key.*

78384—R. O. Lowrey—*Shoe.*

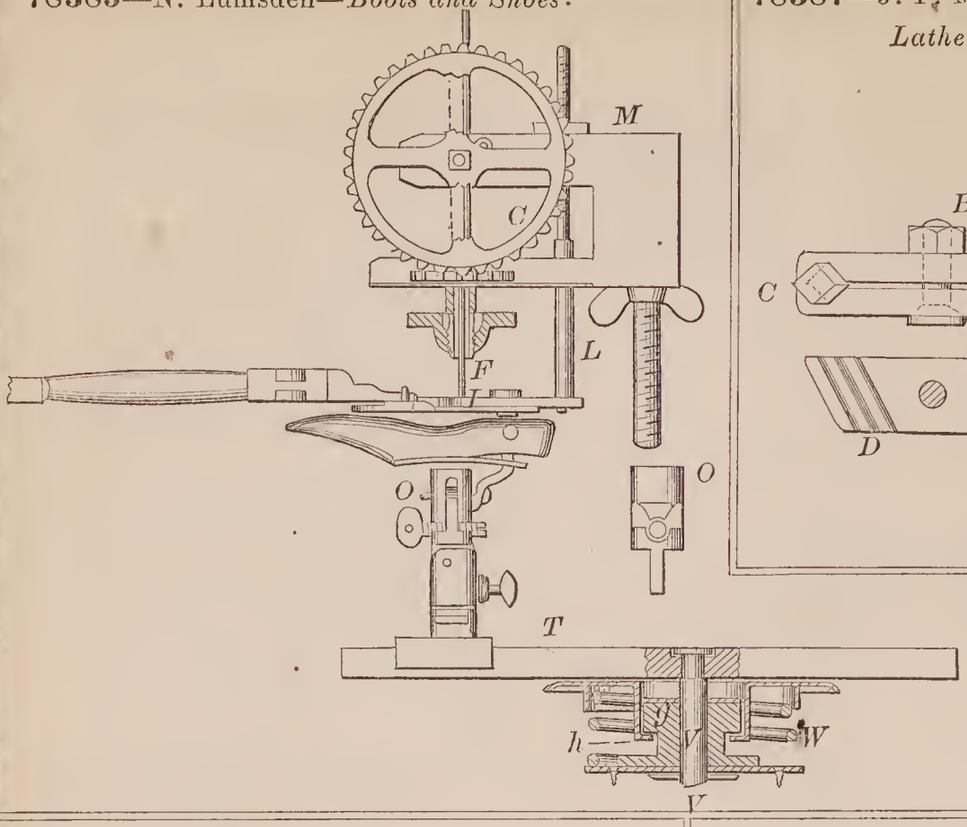


78383—Long & Lavey—*Grain Car.*

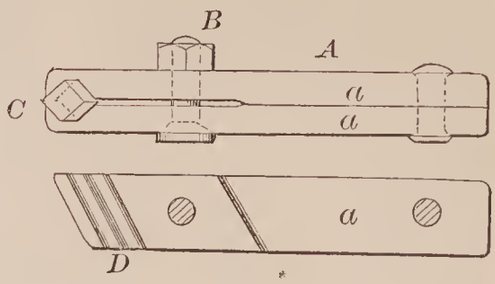




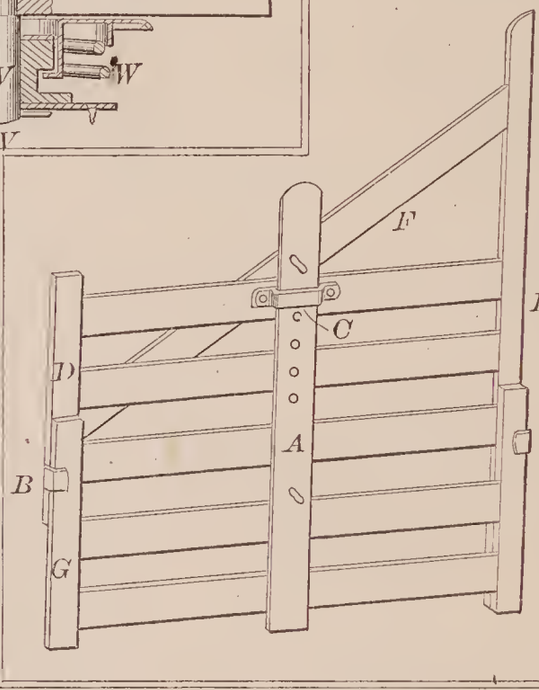
78385—N. Lumsden—*Boots and Shoes.*



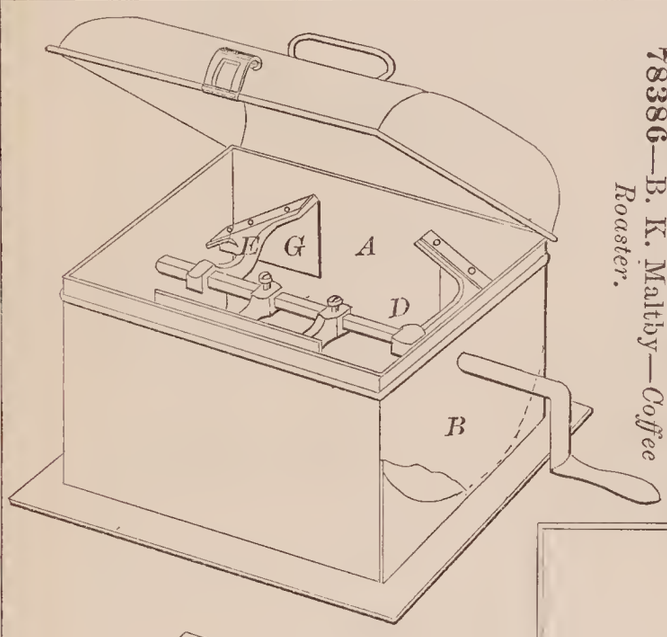
78387—J. P. Manton—*Holder for Lathe Planers.*



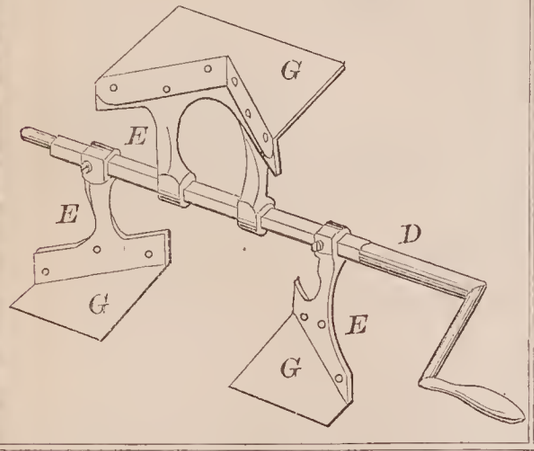
78389—L. Miller—*Gate.*

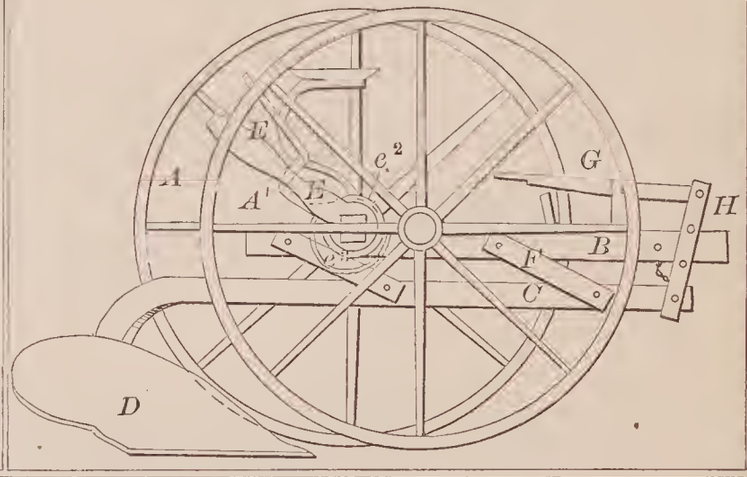


78386—B. K. Maltby—*Coffee Roaster.*

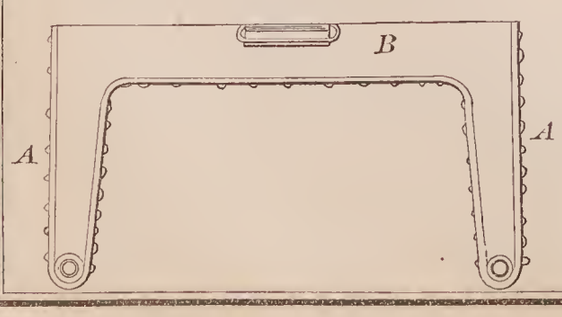


78390—H. W. Neal—*Plow.*

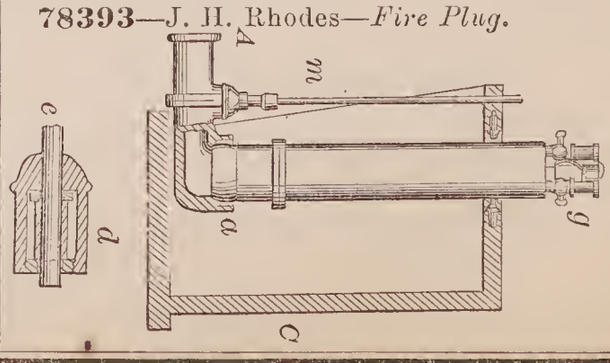




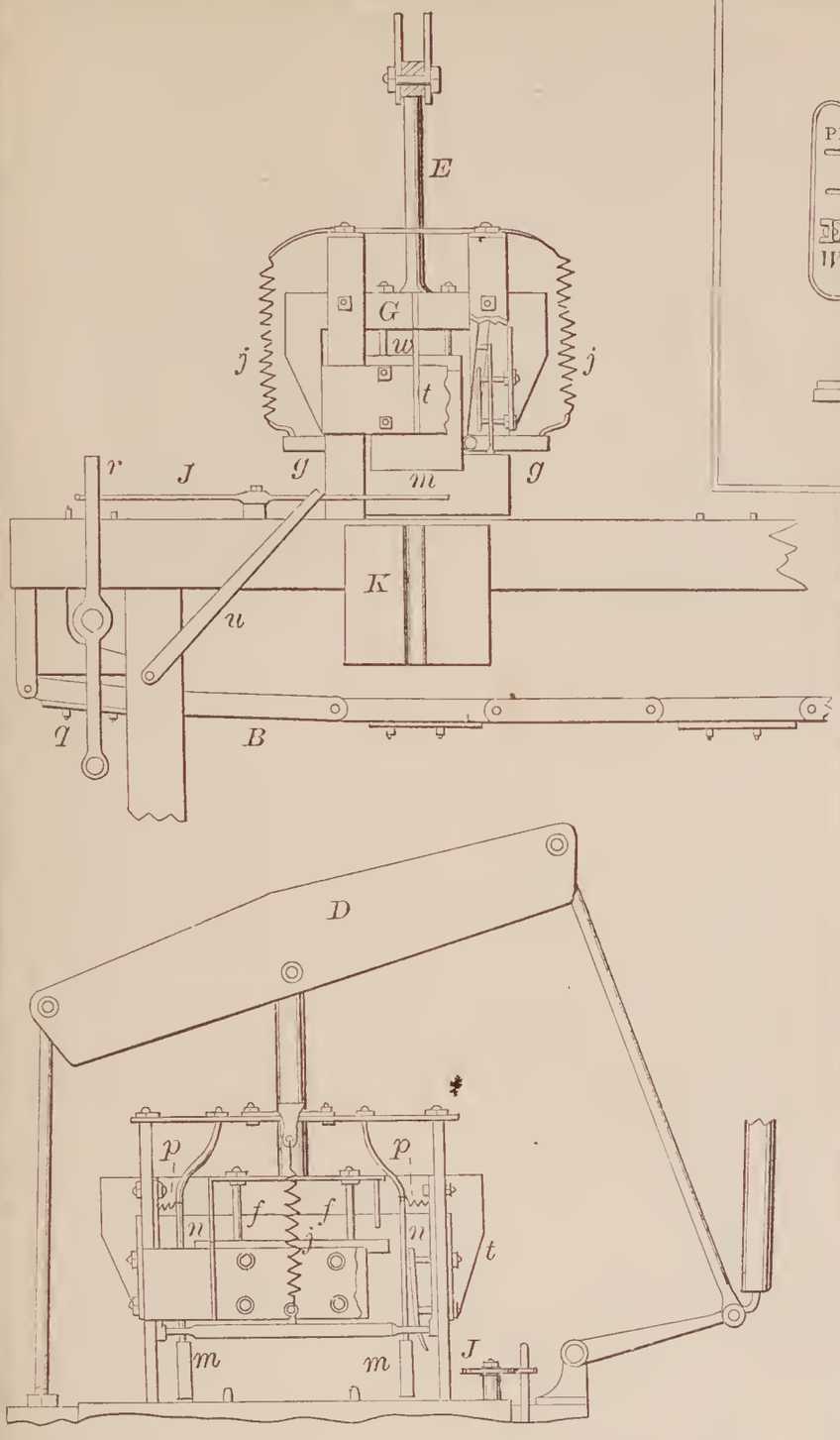
78391—G. L. Parker—*Sap Boiler.*



78393—J. H. Rhodes—*Fire Plug.*

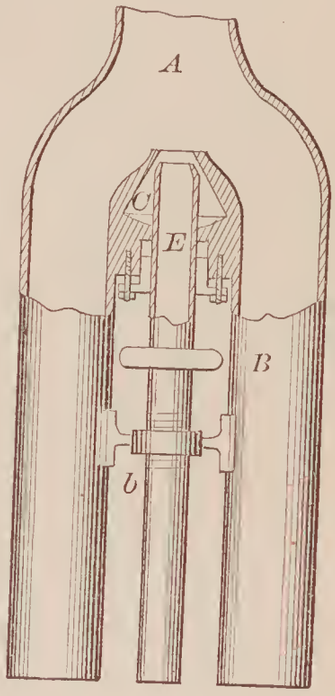


78388—J. McNamara—*For Dressing Brick.*

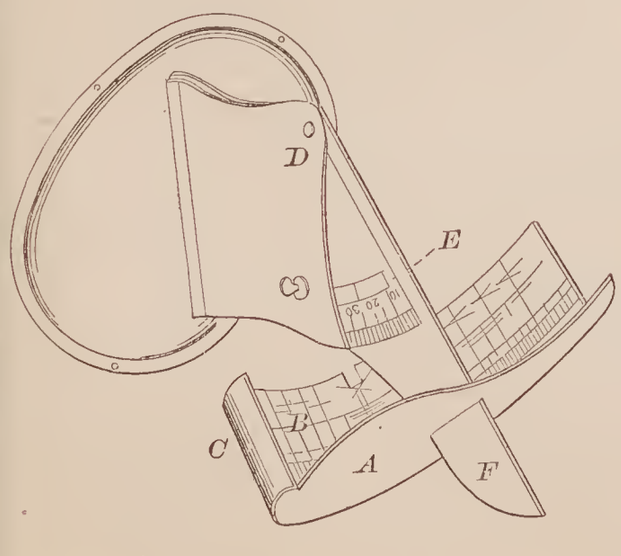


78394—H. S. Ross—*Baggage Check.*

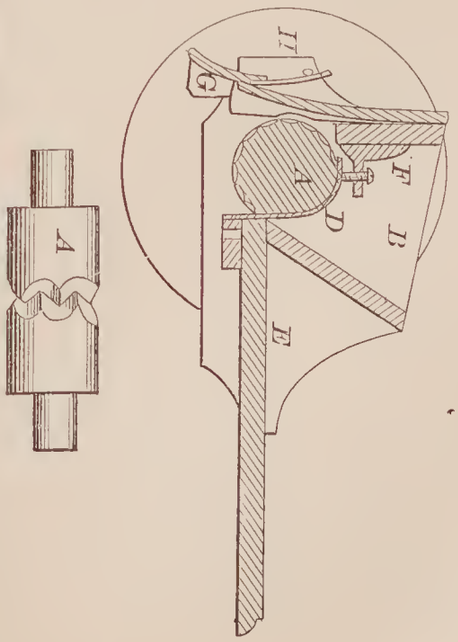
78395—H. S. Ross—
Steam Water Ejector.



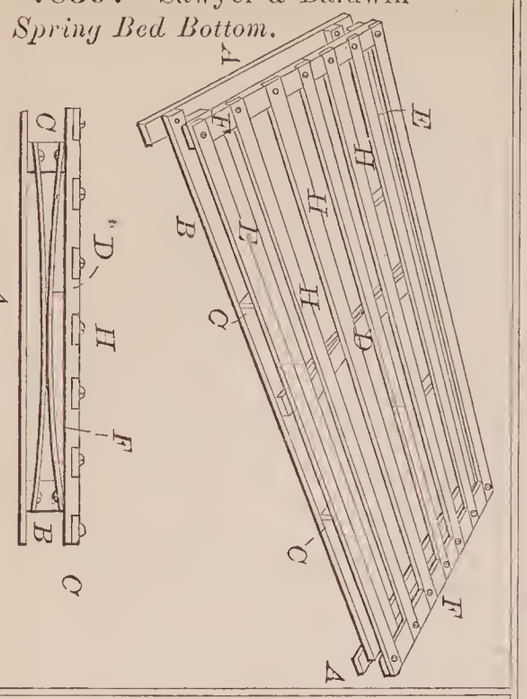
78392—H. C. Pearsons—*Sun Dial.*



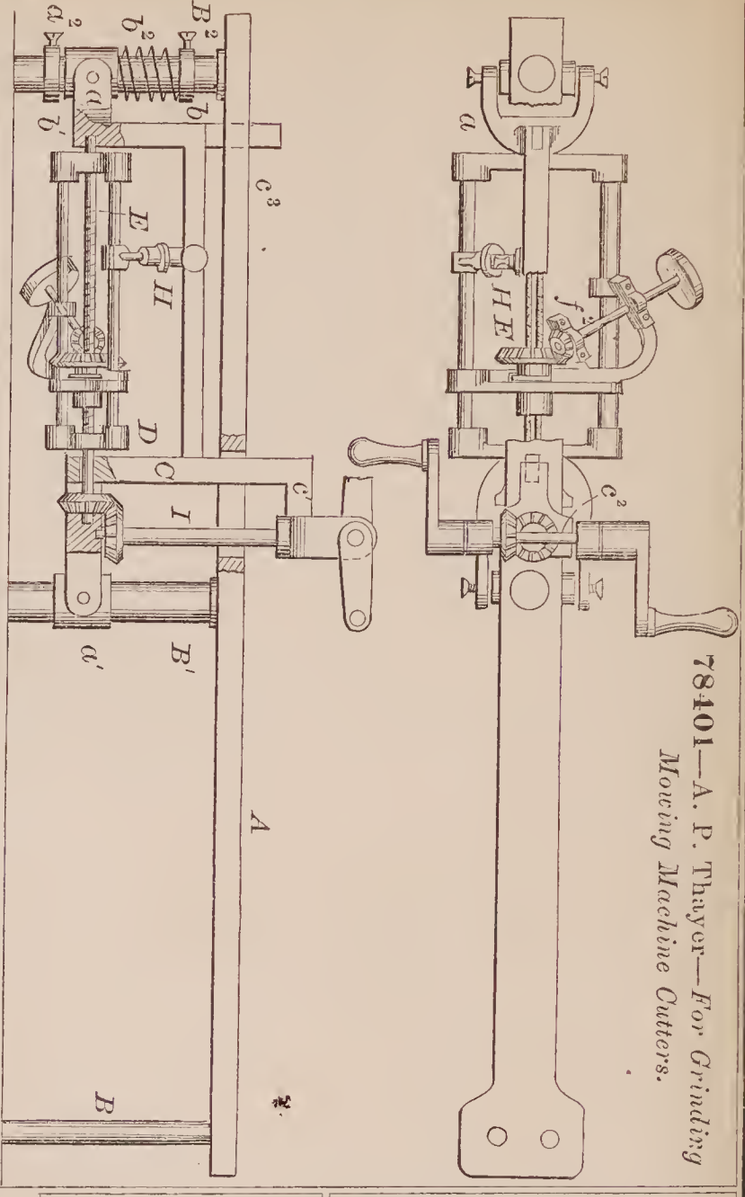
78396—Sanderson & Shattuck—*Seed Sower.*



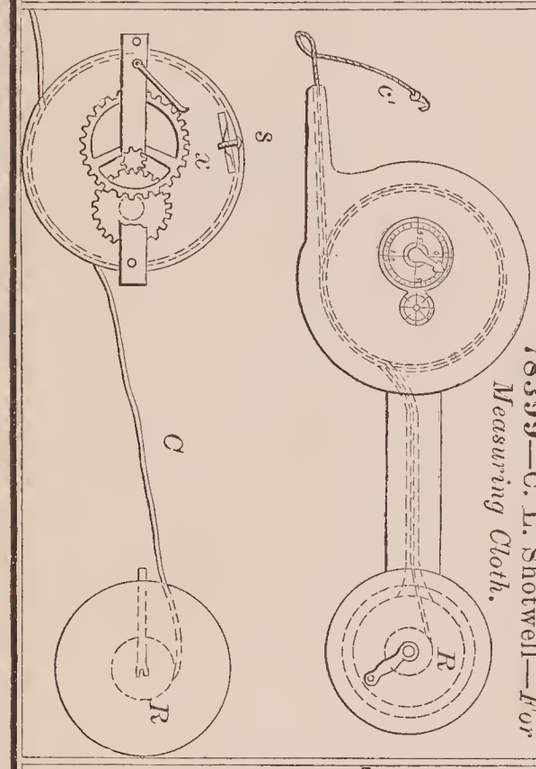
78397—Sawyer & Baldwin—
Spring Bed Bottom.



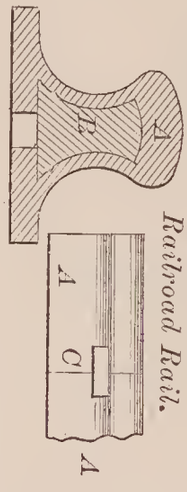
78401—A. P. Thayer—*For Grinding Moving Machine Cutters.*



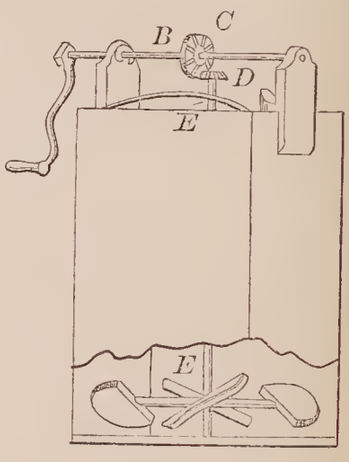
78399—C. L. Shotwell—*For Measuring Cloth.*



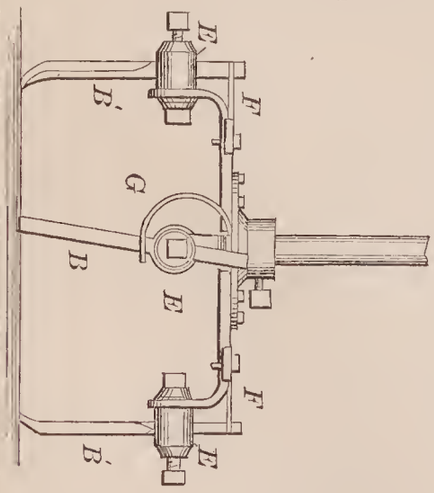
78404—Z. B. Wakeman—*Railroad Rail.*



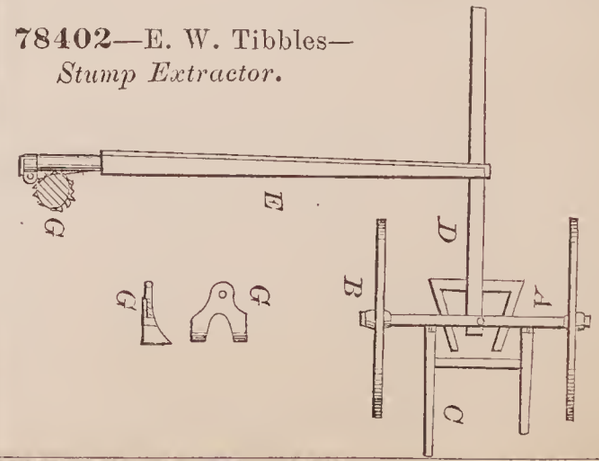
78398—Shuffert & Cooper—
Churn.



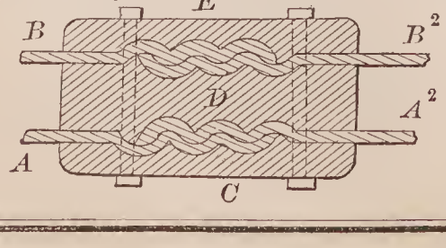
78400—P. H. Standish—*Mounting Rotary Plow Cutters.*



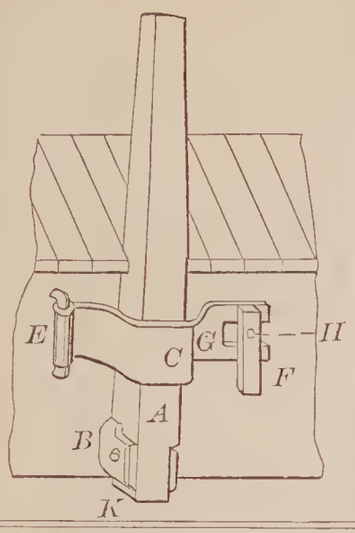
78402—E. W. Tibbles—
Stump Extractor.



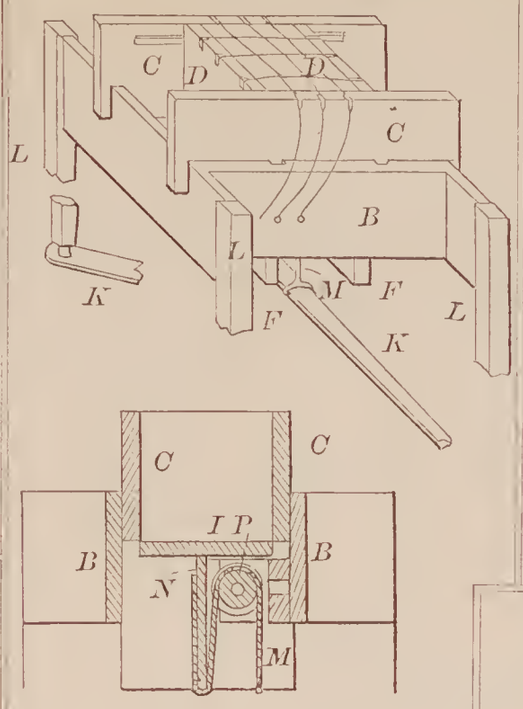
78403—L. E. Truesdell—*Lock Bar for for Bridges.*



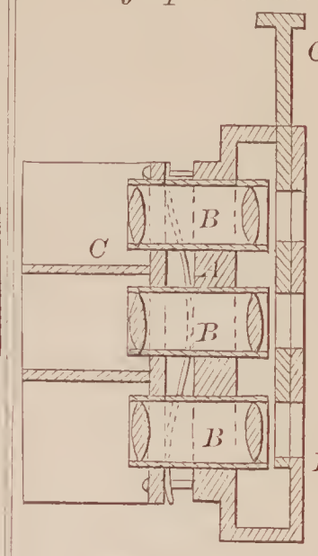
78405—W. P. Wentworth—*Stake Holder for Cars.*



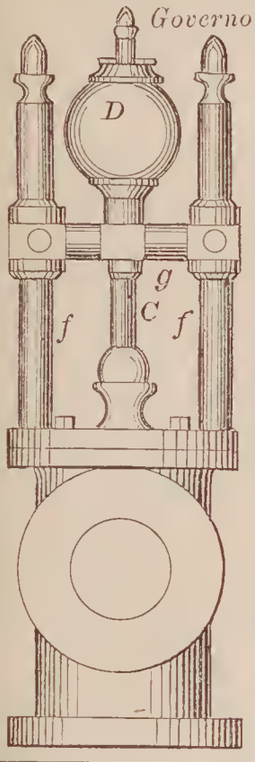
78407—C. Wightman—*Wool Box.*

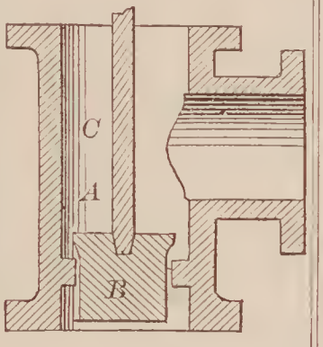


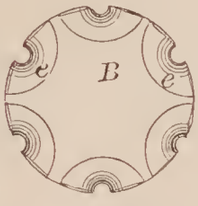
78408—S. Wing—*Photographic Camera.*



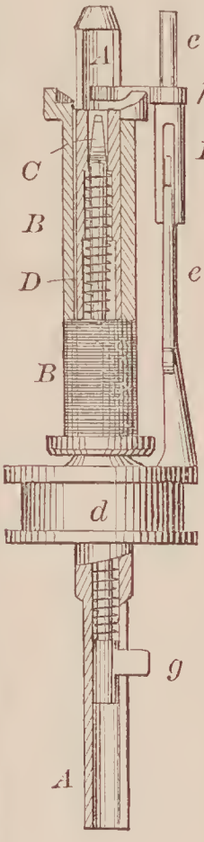
78410—Andrews & Armstrong—*Governor Valve.*



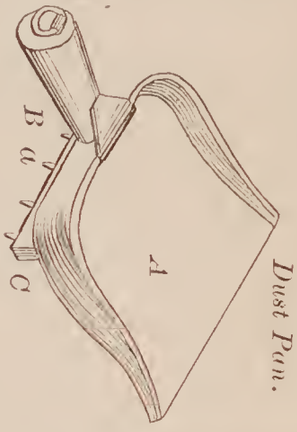




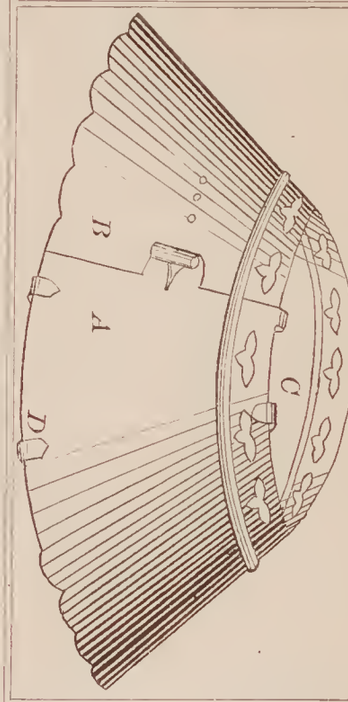
78411—D. Avery—*Carrier for Braiding Machines.*



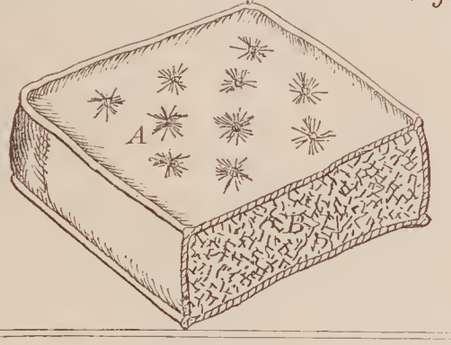
78406—L. F. Wheaton—*Dust Pan.*



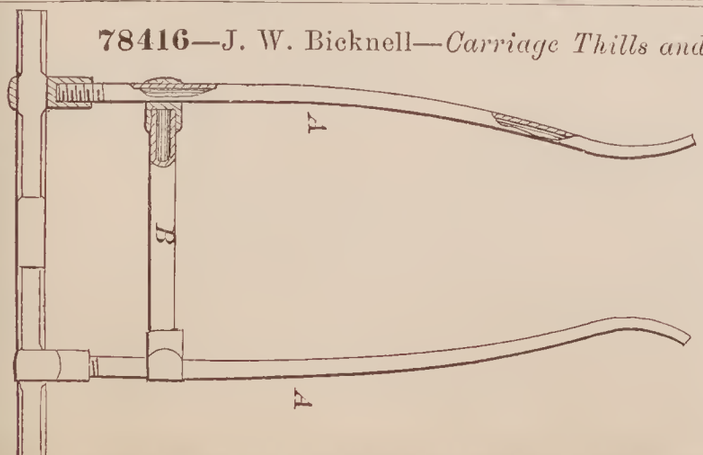
78413—D. W. Bashore—*Lamp Shade.*



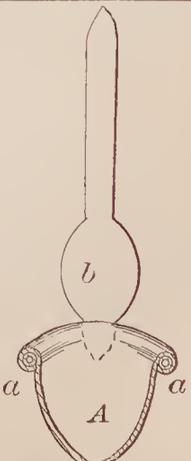
78412—G. C. Barney—*Bed Filling.*



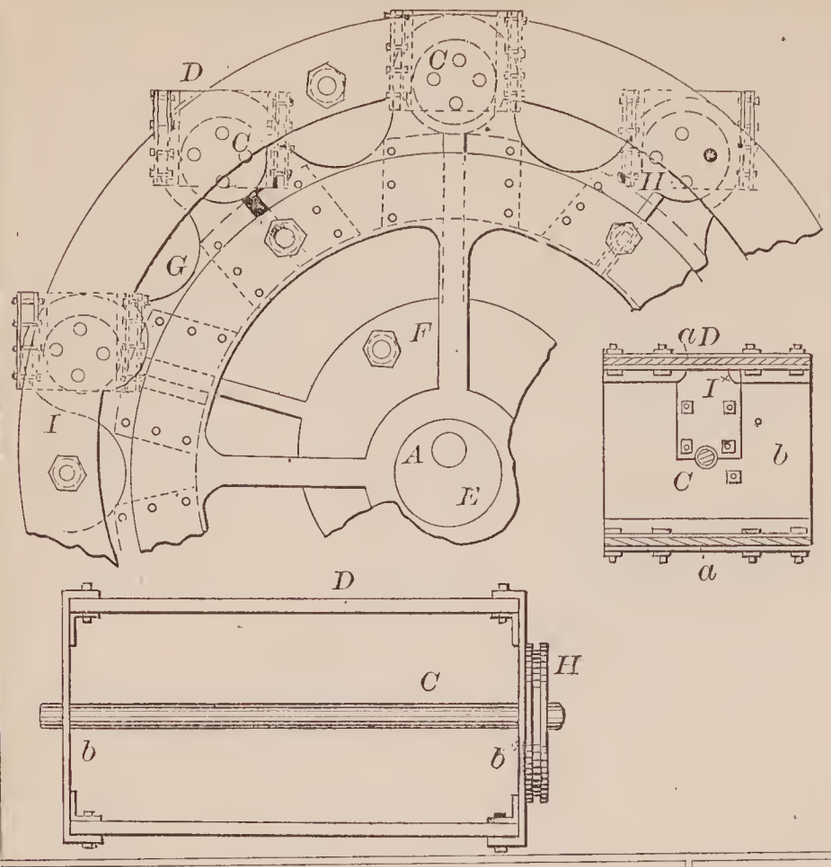
78416—J. W. Bicknell—*Carriage Thills and Pole.*



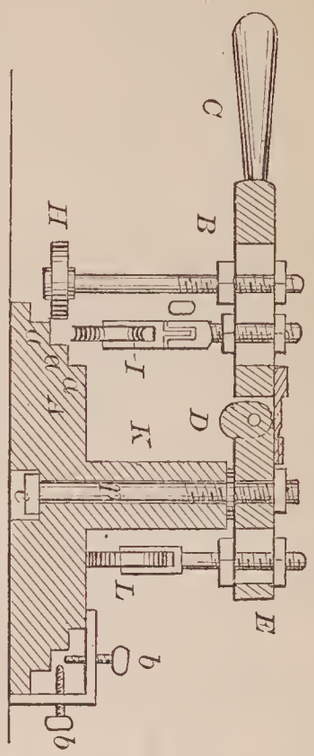
78414—A. F. Baum—*Catamenial Sack.*



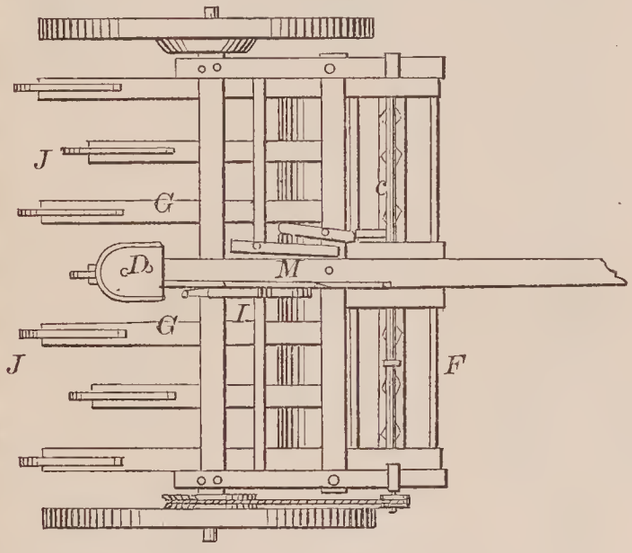
78415—R. Bell—*Feathering Paddle Wheel.*



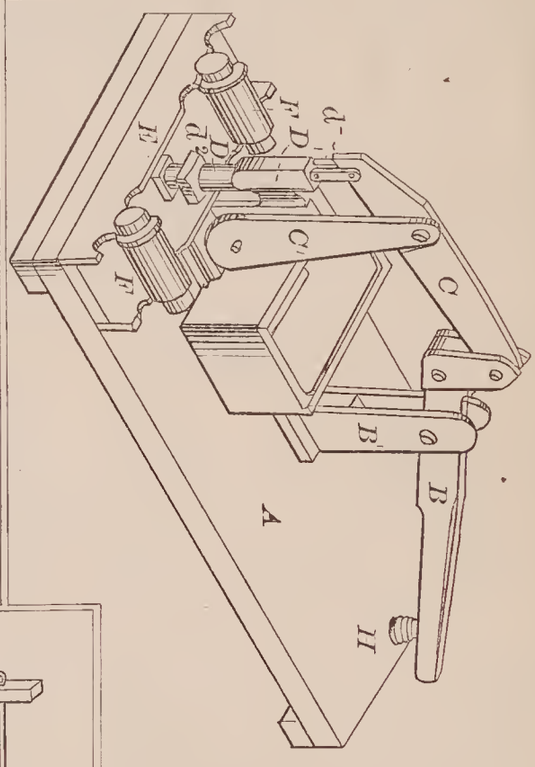
78418—W. Boyd—*For Bending Circles.*



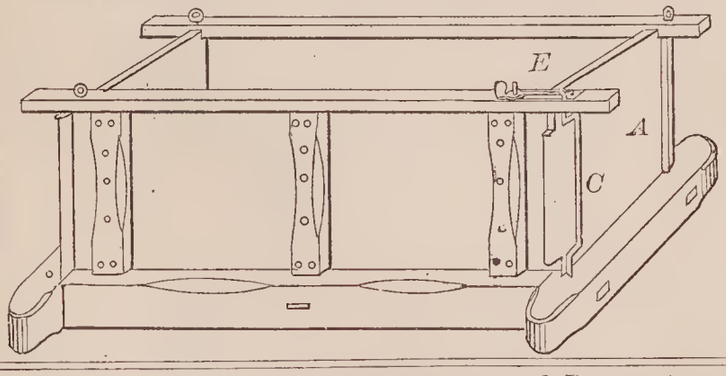
78417—Blood, Hathaway & Beach—*Cultivator.*



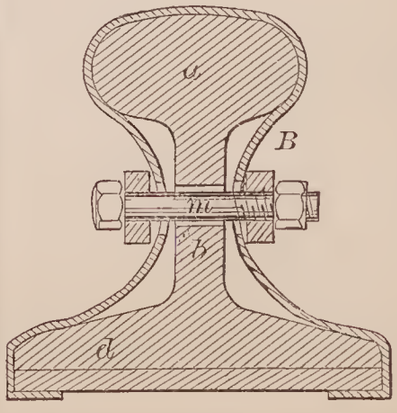
78420—J. M. Bryan—*Tire Bending and Punching.*



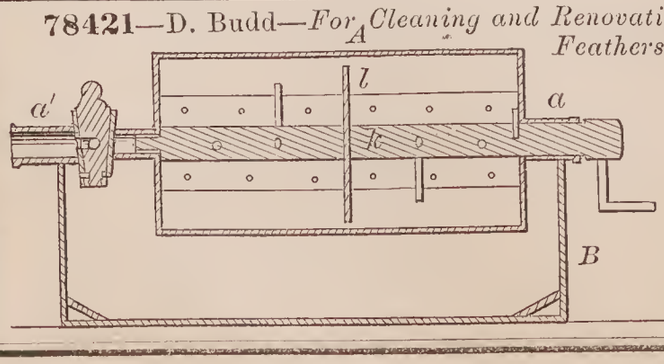
78419—W. Bradley—*Cart Body.*



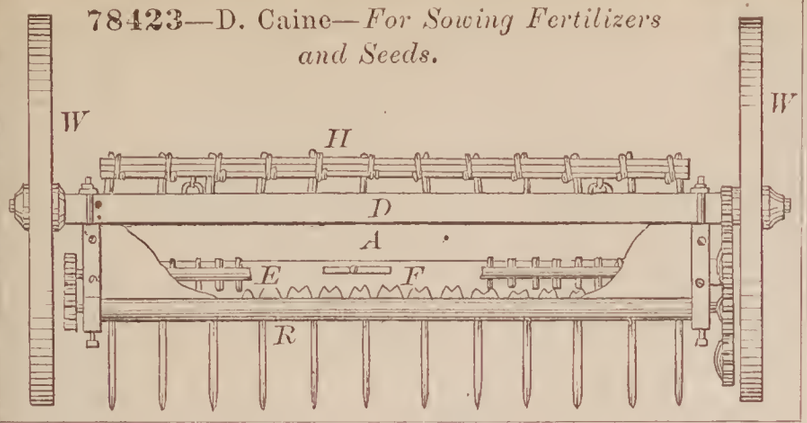
78422—A. G. Buzby—*Railroad Rail.*



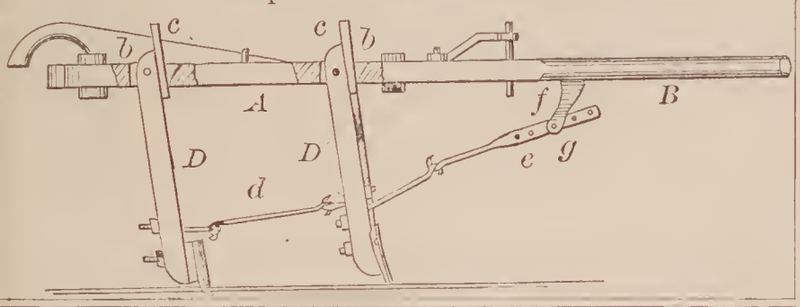
78421—D. Budd—*For Cleaning and Renovating Feathers.*



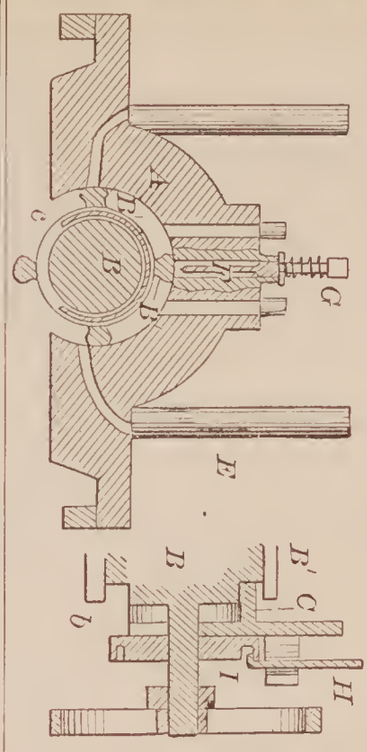
78423—D. Caine—*For Sowing Fertilizers and Seeds.*



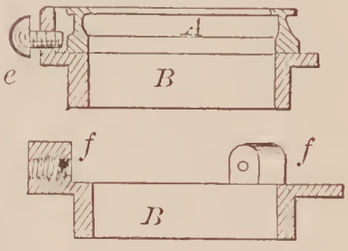
78424—A. Campbell—*Corn Cultivator.*



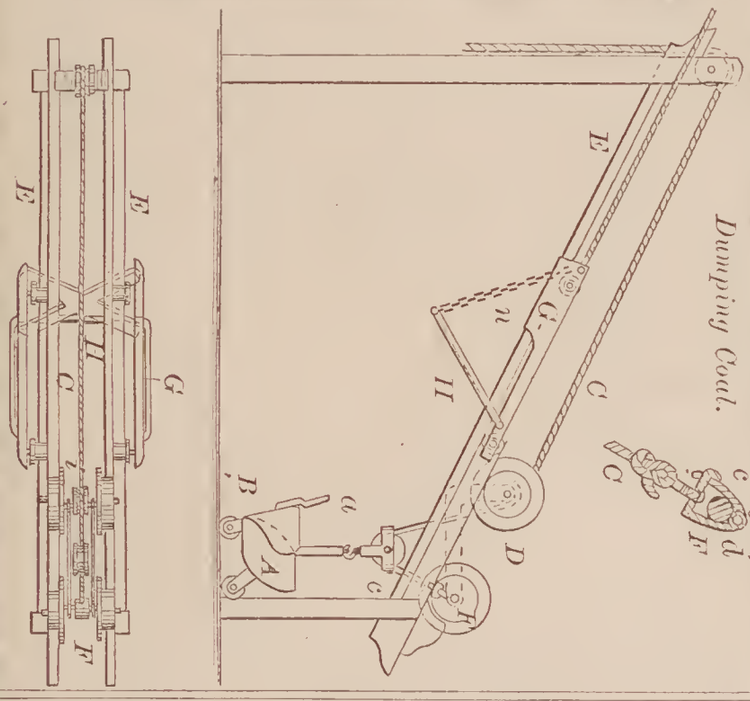
78425—W. B. Campbell—*Rotary Steam Engine.*



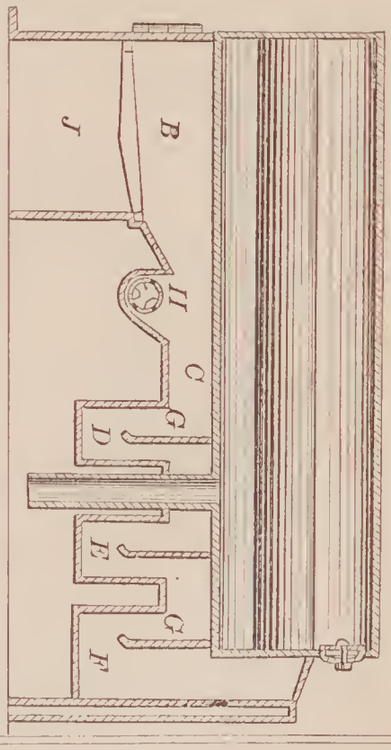
78427—W. T. Carroll—*Ring for Spinning Machines.*



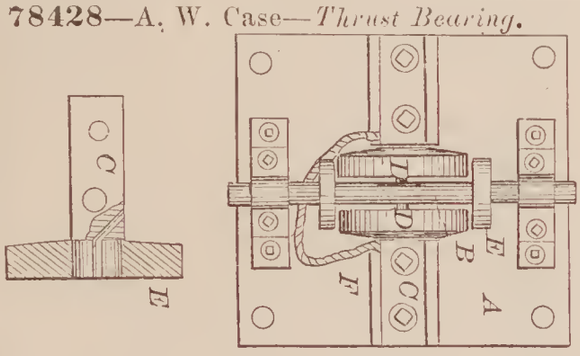
78430—Clark & Little—*For Conveying and Dumping Coal.*



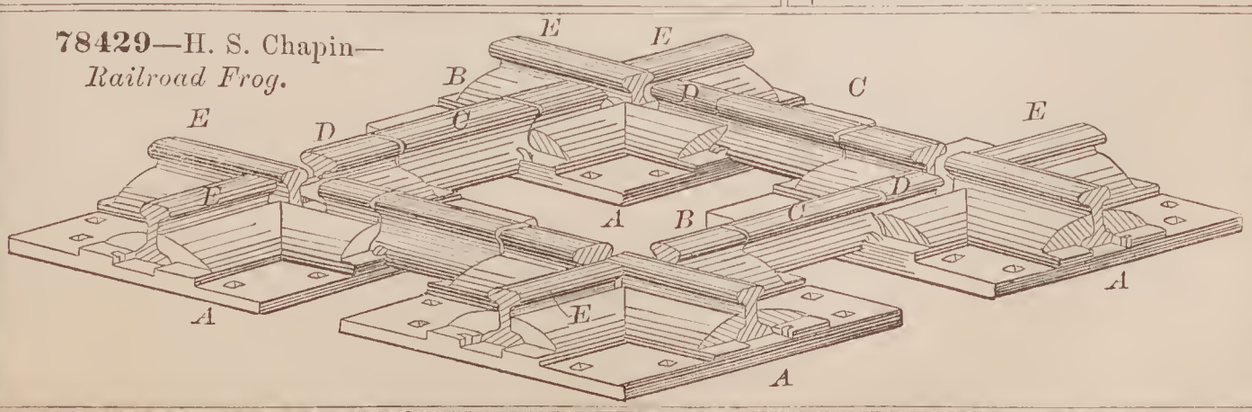
78426—N. L. Carpenter—*Steam Boiler Furnace.*



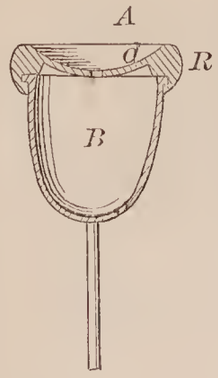
78428—A. W. Case—*Thrust Bearing.*



78429—H. S. Chapin—*Railroad Frog.*

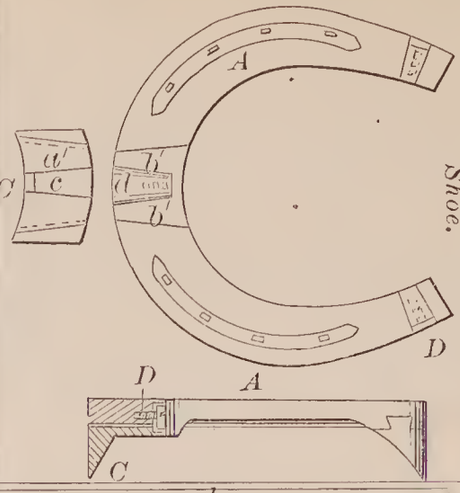


78431—S. P. Cole—*Uterine Supporter.*



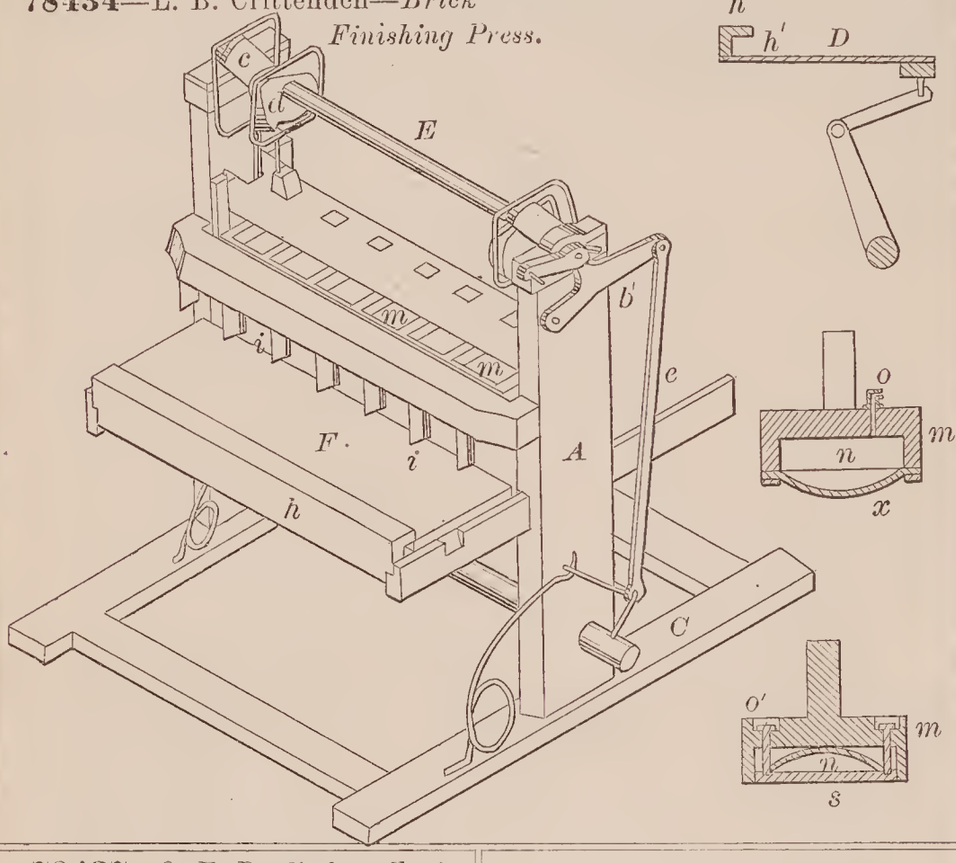
78432—W. H. Cox—*Sand Throwing Machine.*

78436—J. M. Cuykendall—*Horse Shoe.*

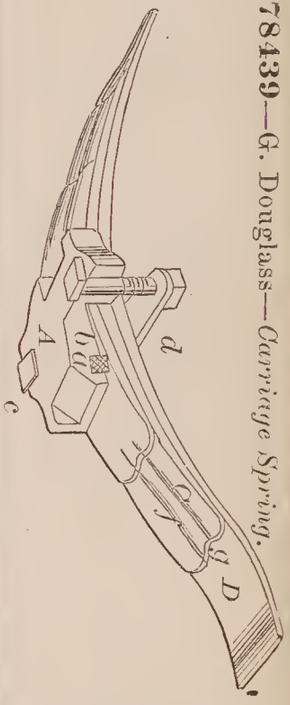


78435—G. B. Cubberley—*File.*

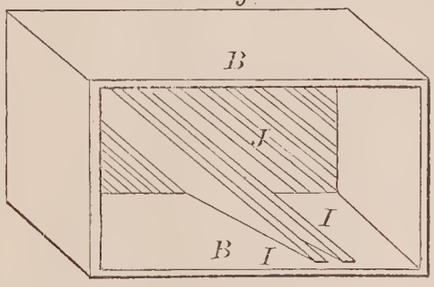
78434—L. B. Crittenden—*Brick Finishing Press.*



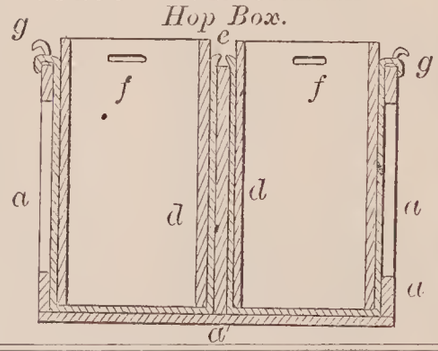
78439—G. Douglass—*Carriage Spring.*



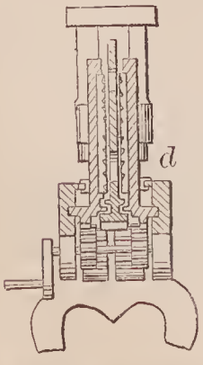
78437—O. E. Doolittle—*Fruit Preserving Box.*

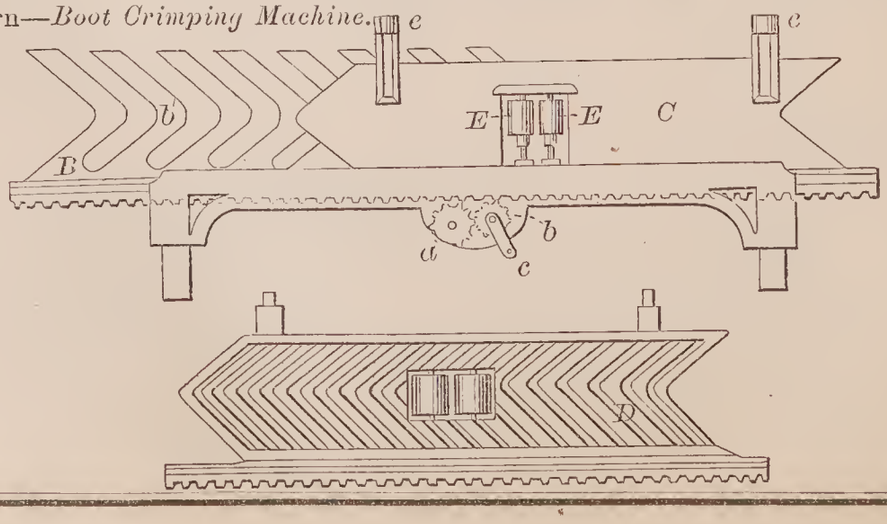


78433—W. R. Crandall—*Hop Box.*

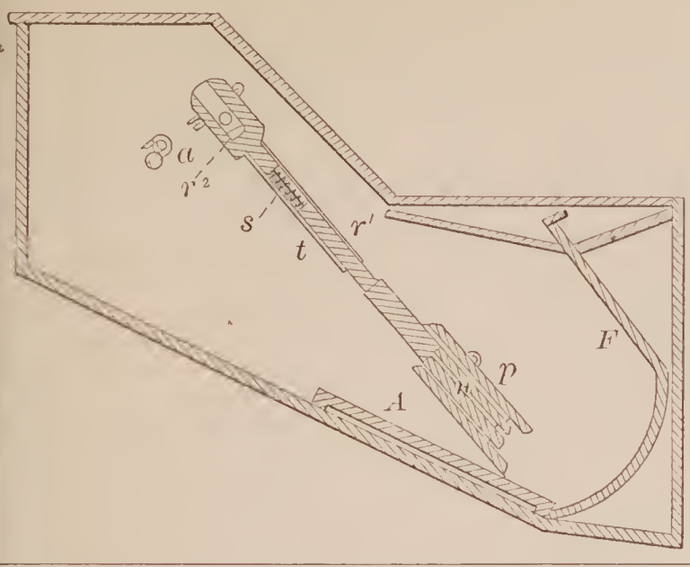


78438—R. H. Dorn—*Boot Crimping Machine.*

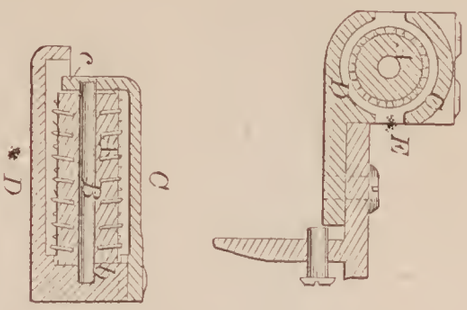




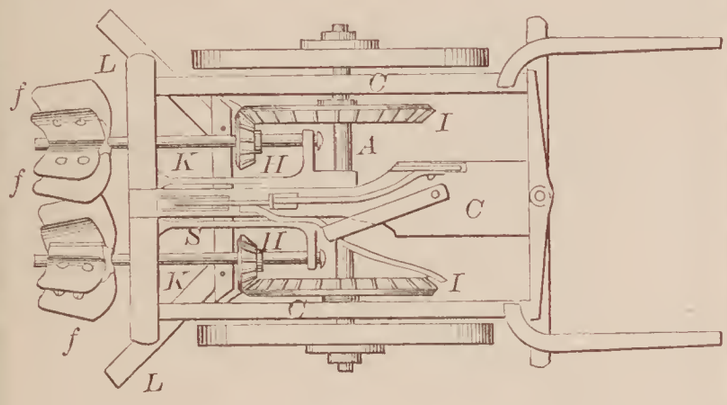
78440—N. Drew—*Washing Machine.*

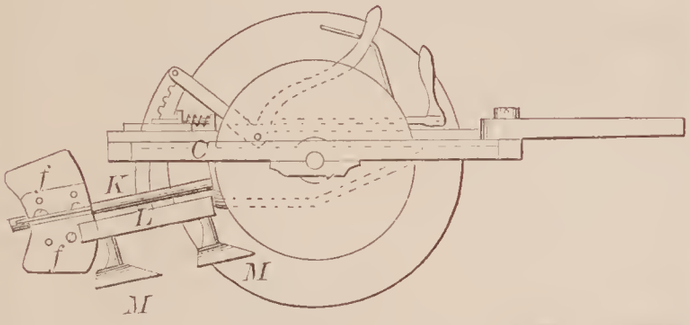


78441—W. W. Dutcher—*Loom Temple.*

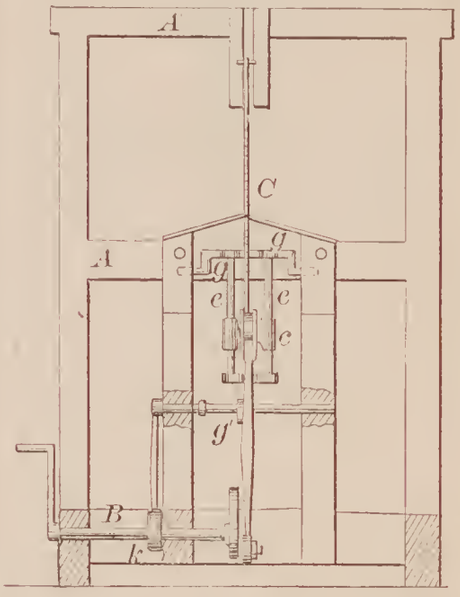


78442—H. P. Eckler—*Cultivator and Hoe.*



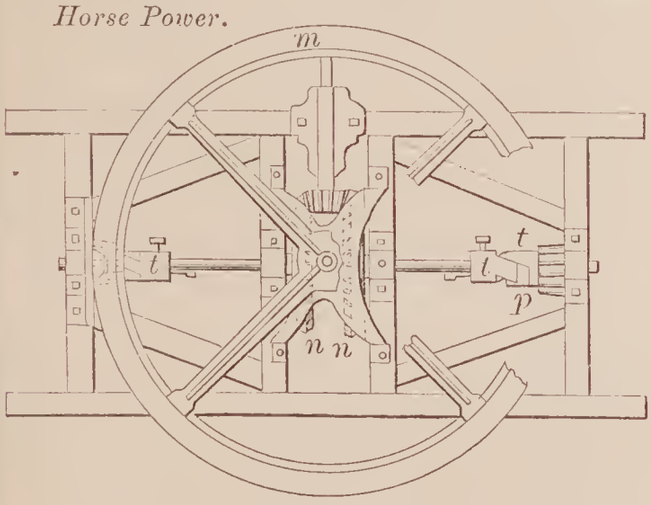


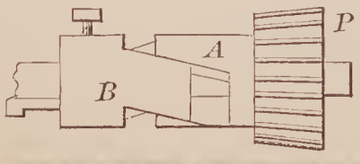
78443—A. R. Ehlers—*Saw Mill*



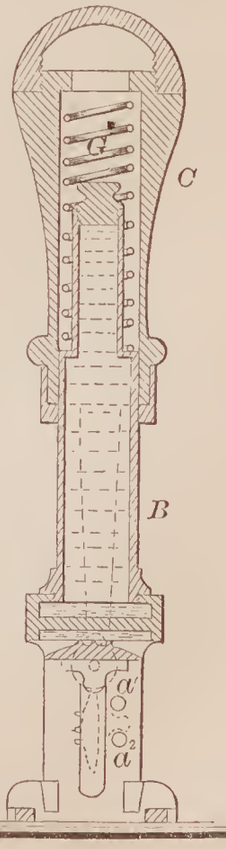
78444—L. H. Emmons—*Mop Head.*

78445—J. S. Everitt—*Adjustment of Gearing for Horse Power.*

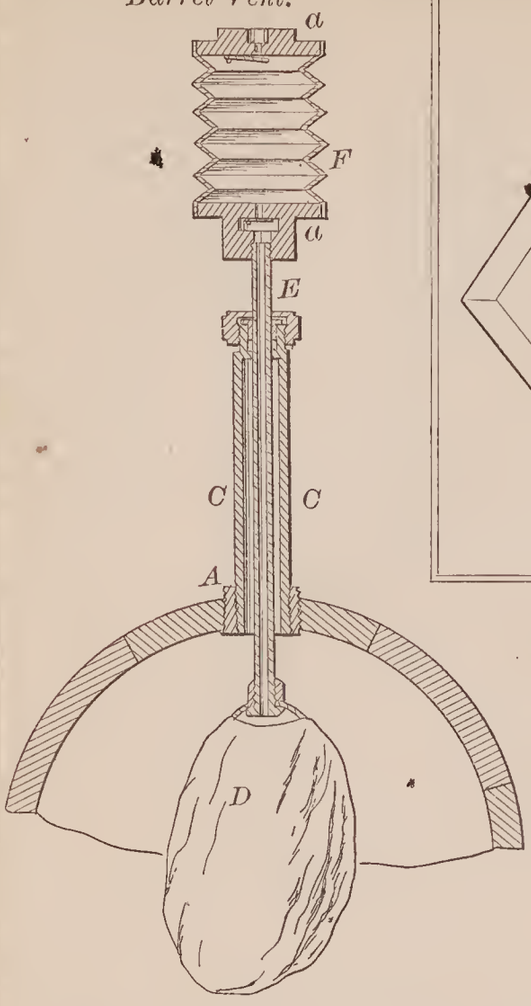




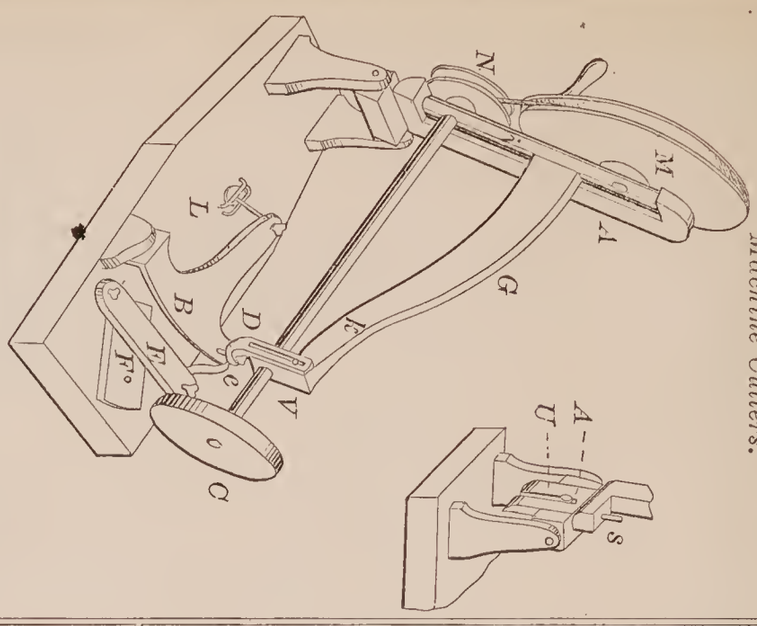
78446—A. Fessler—*Hand Stamp.*



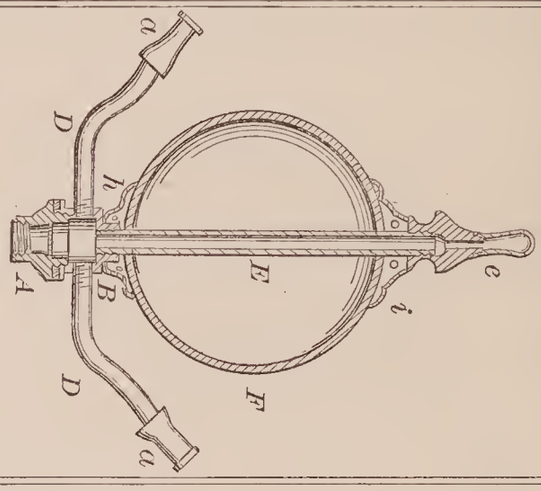
78447—R. C. Fleming—*Barrel Vent.*



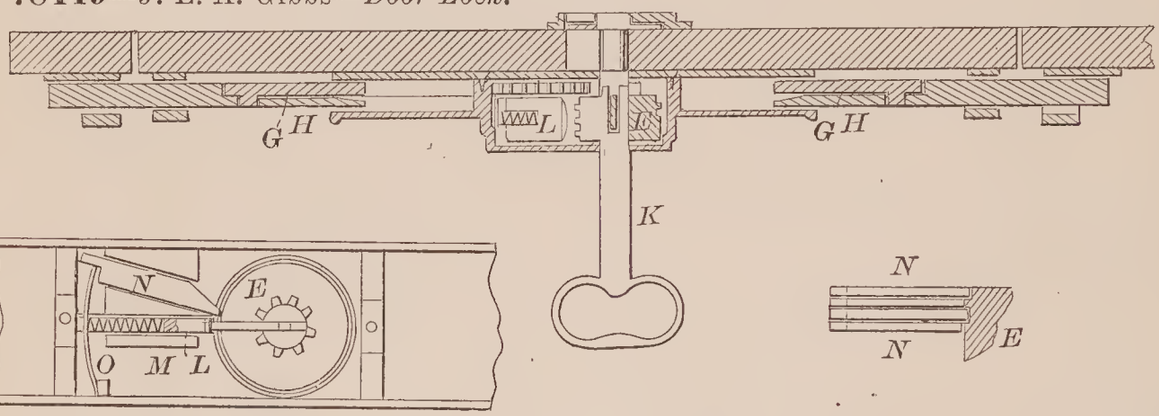
78448—A. French—*For Grinding Mowing Machine Cutters.*



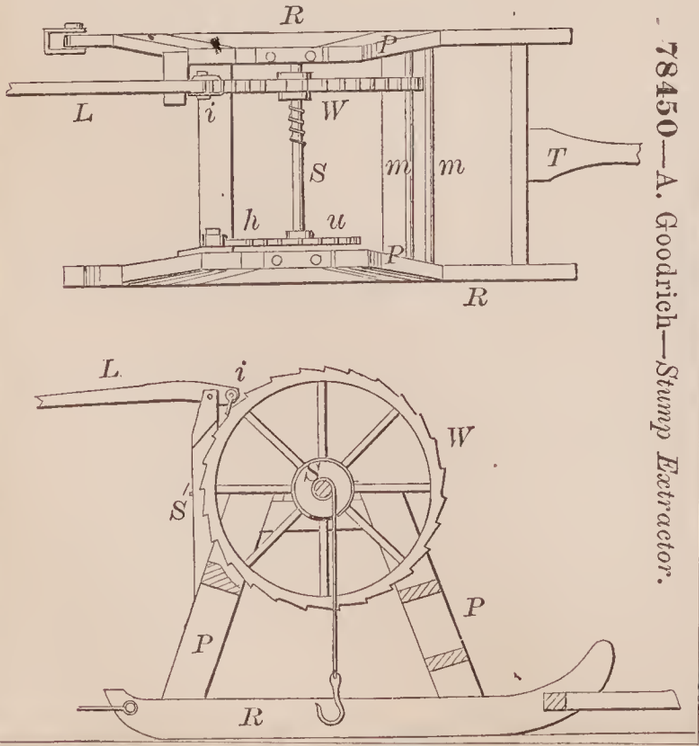
78451—T. Grist—*Gas Burner.*



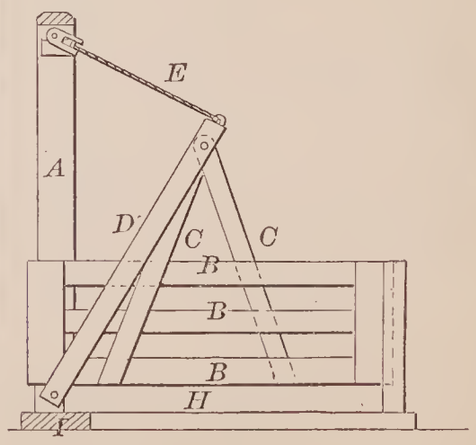
78449—J. E. A. Gibbs—*Door Lock.*



78450—A. Goodrich—*Stump Extractor.*



78452—W. C. Hooker—*Gate.*



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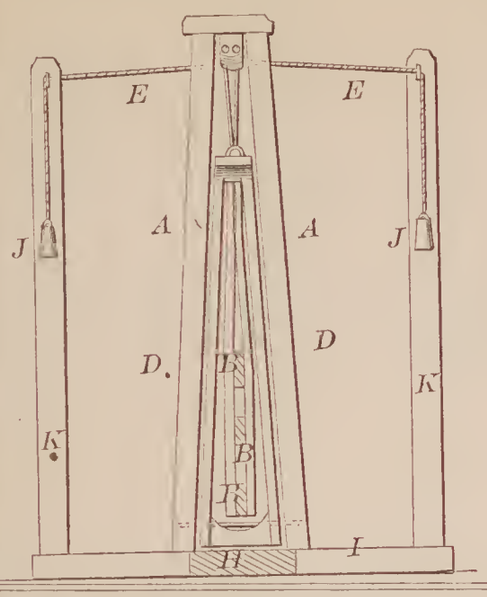
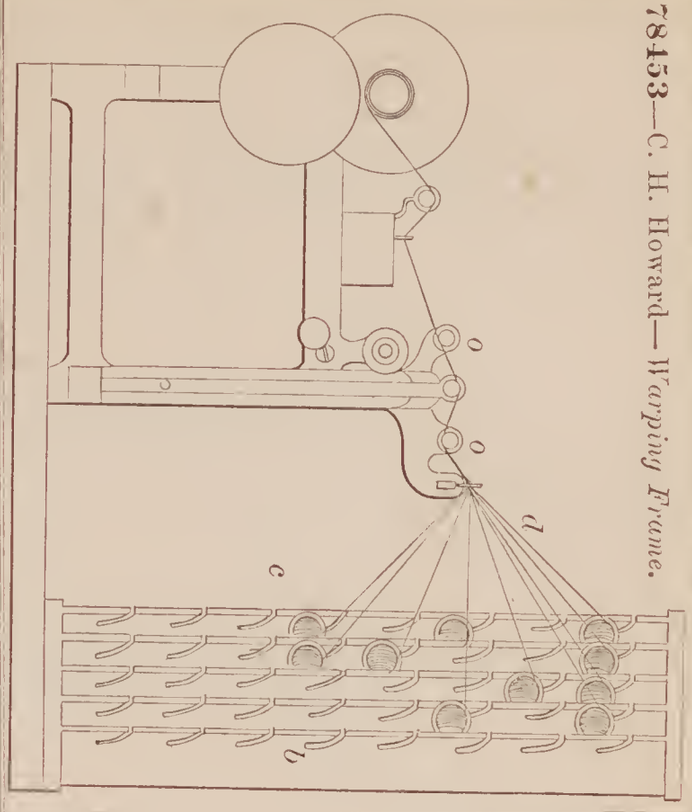
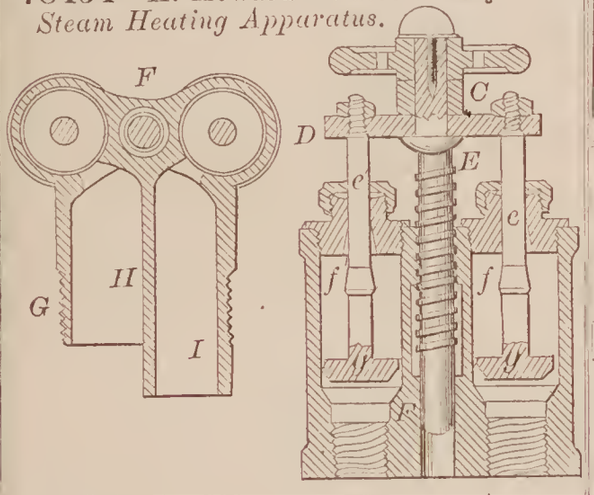


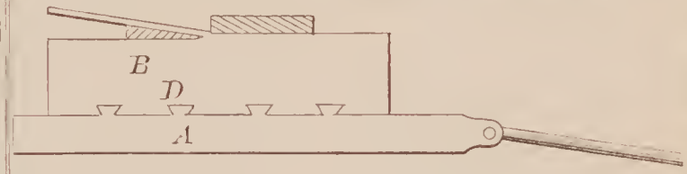
78453—C. H. Howard—*Warping Frame.*

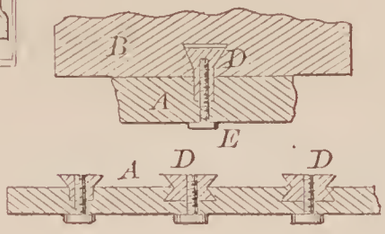


78454—H. Howard—*Valve Gear for Steam Heating Apparatus.*



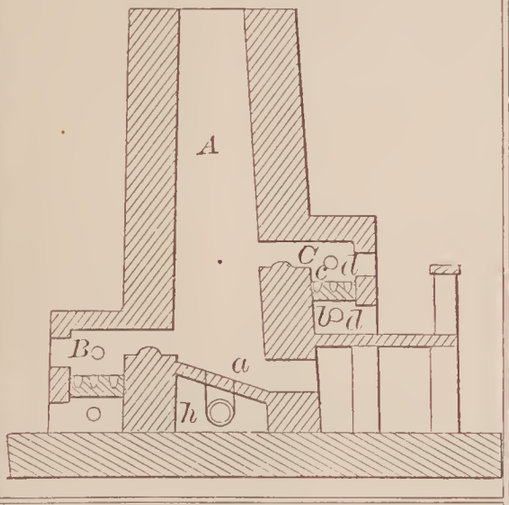
78458—E. Jewett—*Veneer Cutting Machine.*



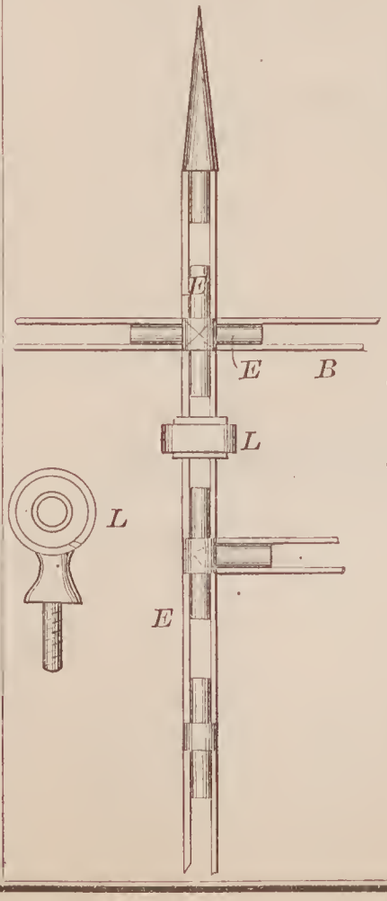


78455—A. Hoyt—*Pavement.*

78456—E. P. Hudson—*Ore Roasting Furnace.*

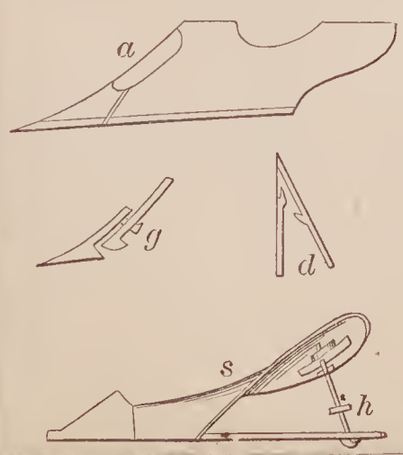


78459—G. Kirtland—*Lightning Rod.*

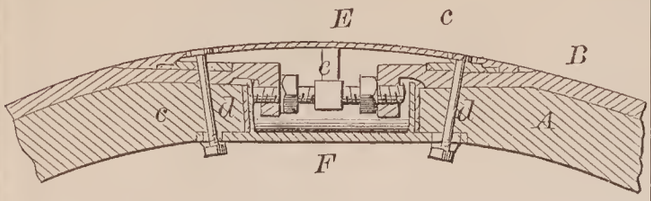


78460—M. Lewis—*Harvester Cutter.*

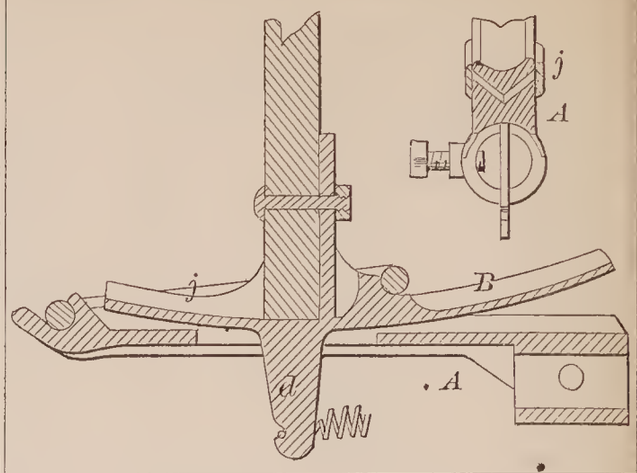
78457—S Hulbert—*Plow.*



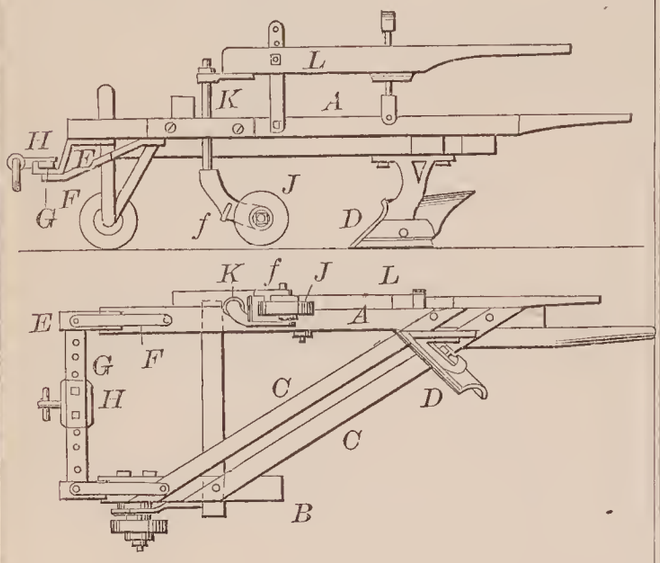
78461—T. R. Markillie—*Tightening Wheel Tires.*



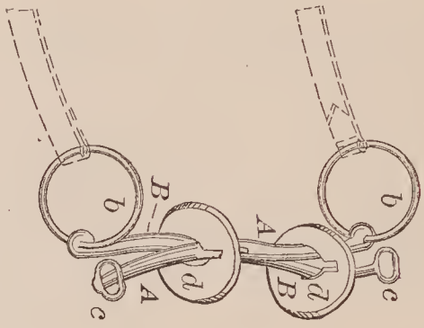
78463—W. Mason—*Mounting Picker Staffs.*



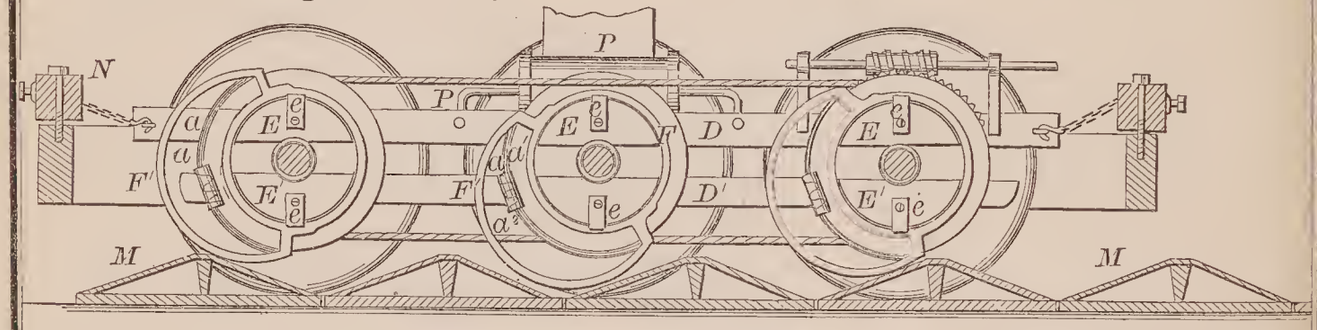
78464—D. C. Matteson—*Gang Plow.*



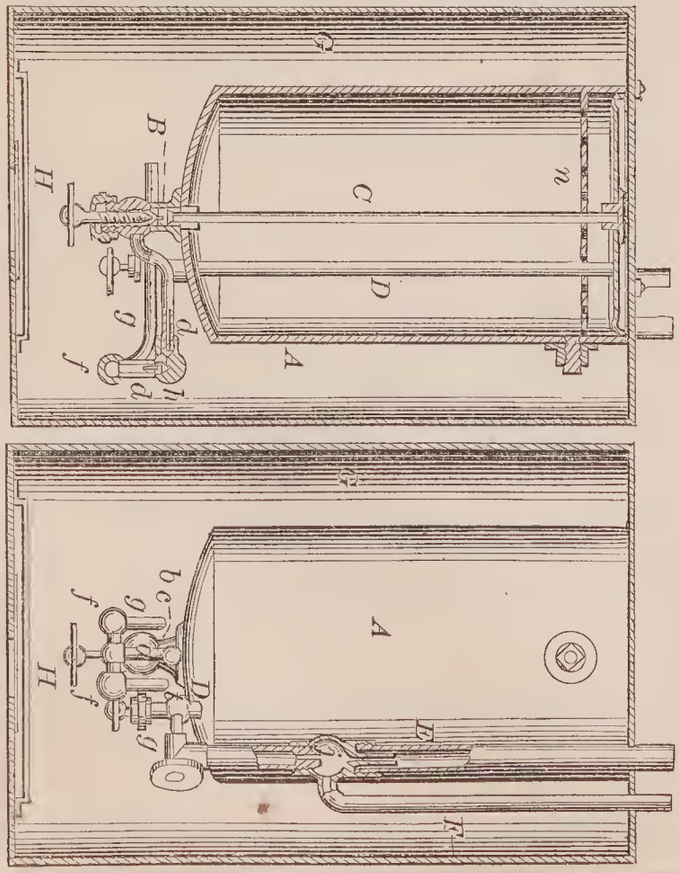
78466—P. J. McGuiness—*Bridle Bit.*



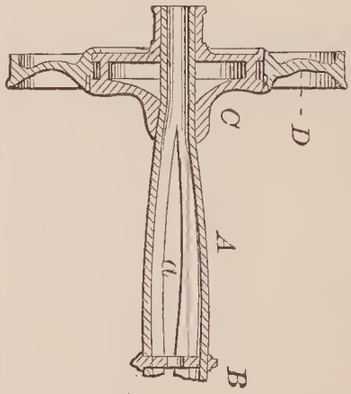
78462—C. Margutti—*Railway.*



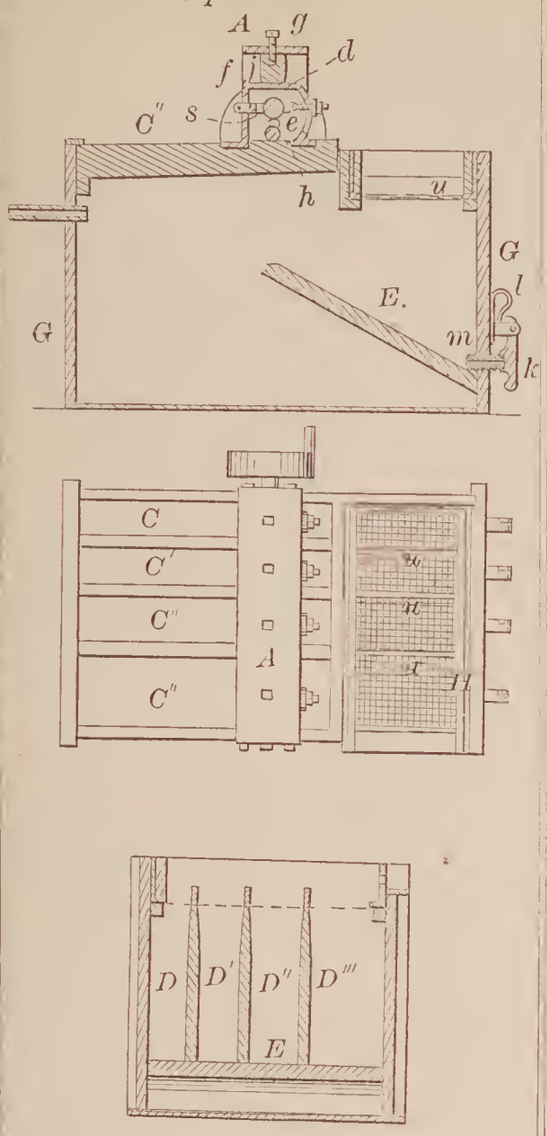
78465—Maxim & Lockwood—*Gas Machine.*



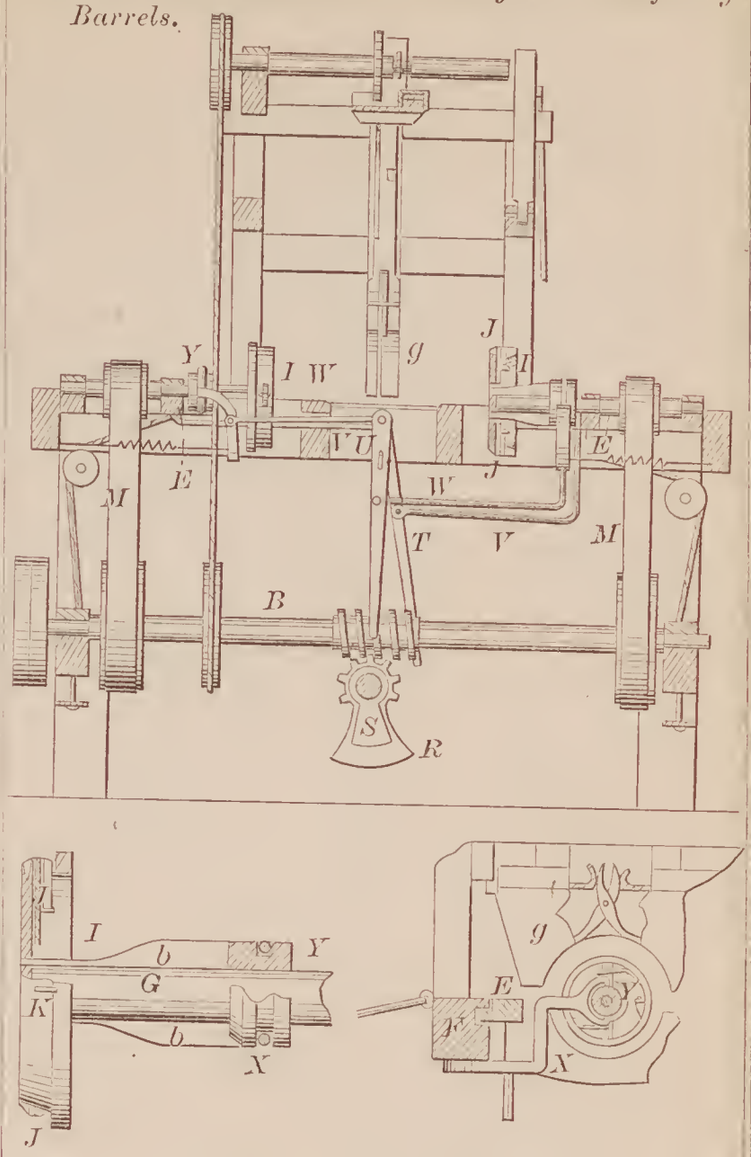
78467—J. Montgomery—*Car Axle and Wheel.*



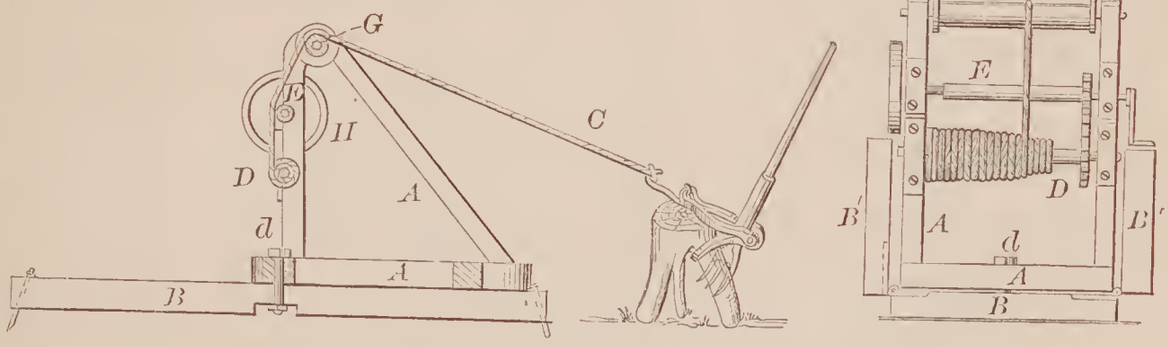
78468—R. C. Morton—*Ore Separator.*



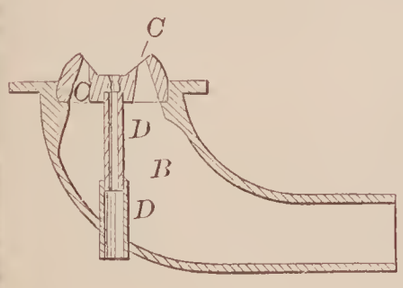
78470—C. Murdock—*For Crozing and Chamfering Barrels.*



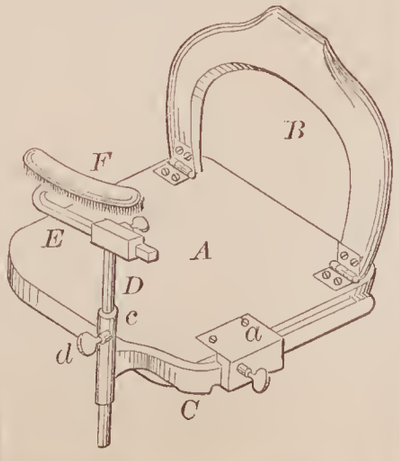
78469—C. Munns—*Stump Extractor.*



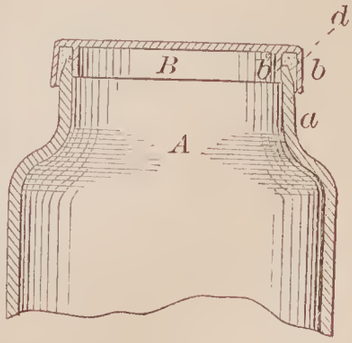
78471—W. H. Myers—*Tuyere.*



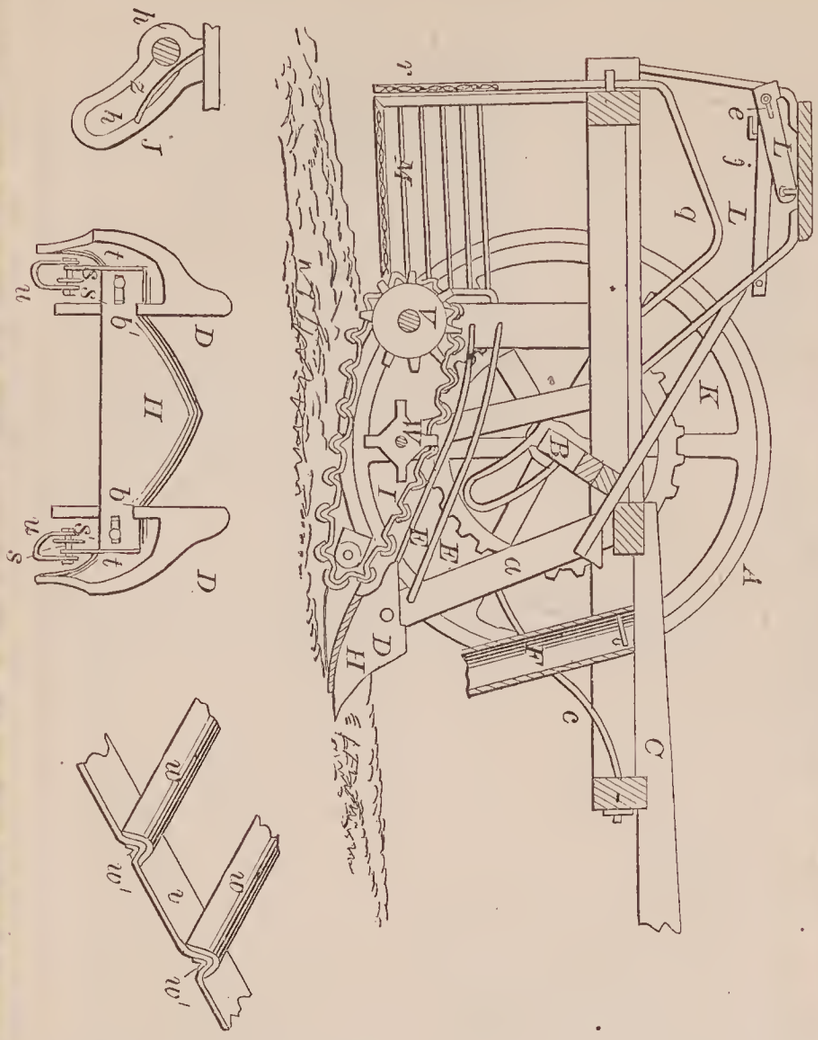
78472—F. Neuhaus—*Tailors' Seat.*



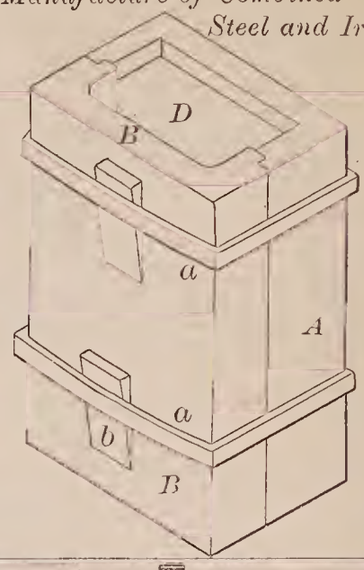
78474—H. B. Norton—*Fruit Jar.*



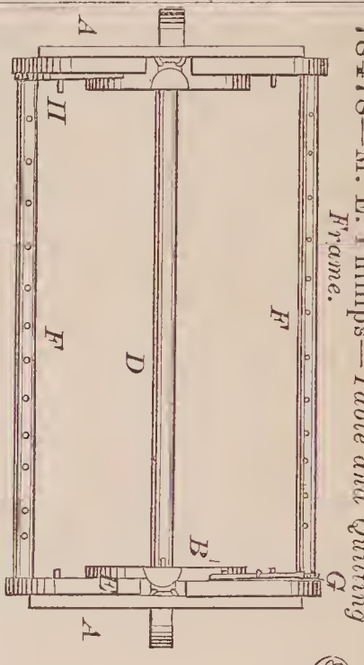
78473—H. B. Norton—*Potato Digger.*



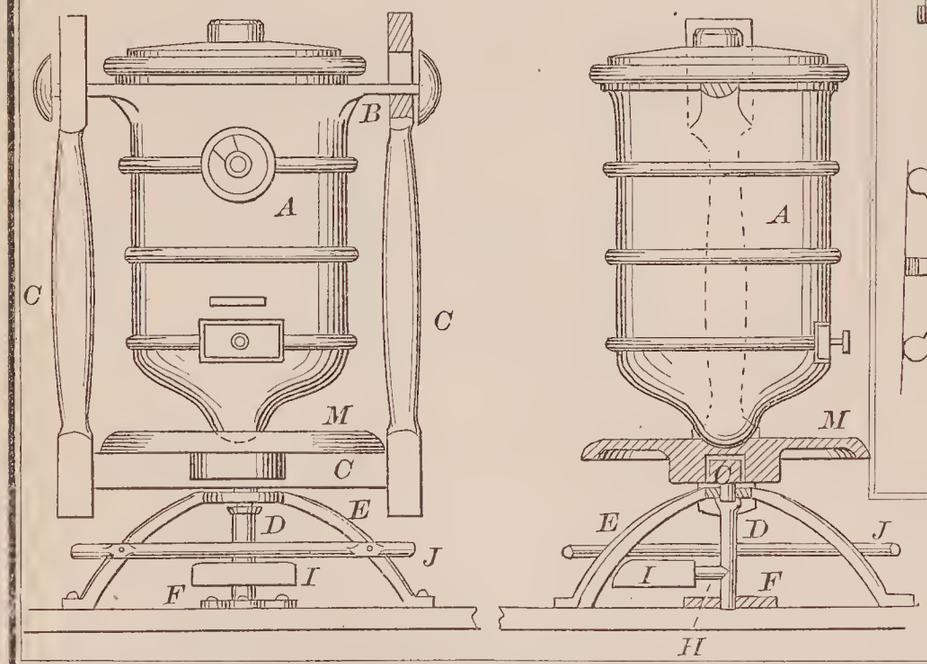
78477—J. Park, Jr.—*Manufacture of Combined Steel and Iron.*

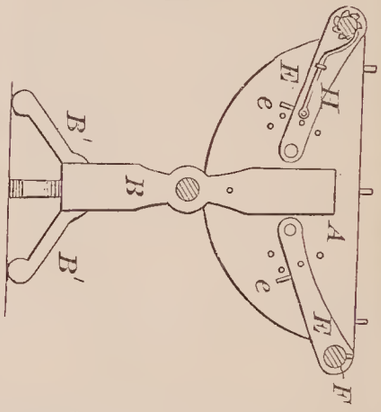


78478—M. E. Phillips—*Table and Quilting Frame.*

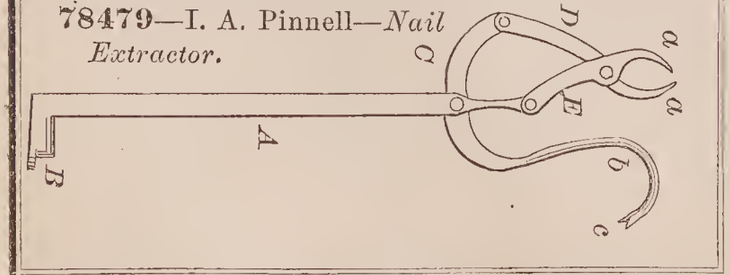


78475—R. O'Brien—*Car Stove.*

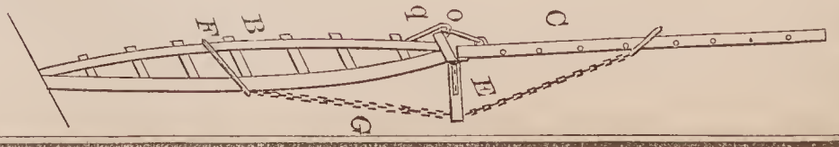




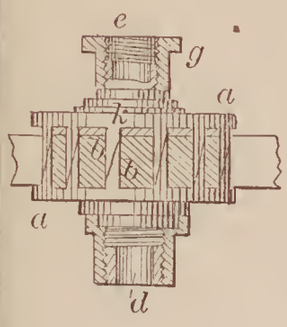
78479—I. A. Pinnell—*Nail Extractor.*



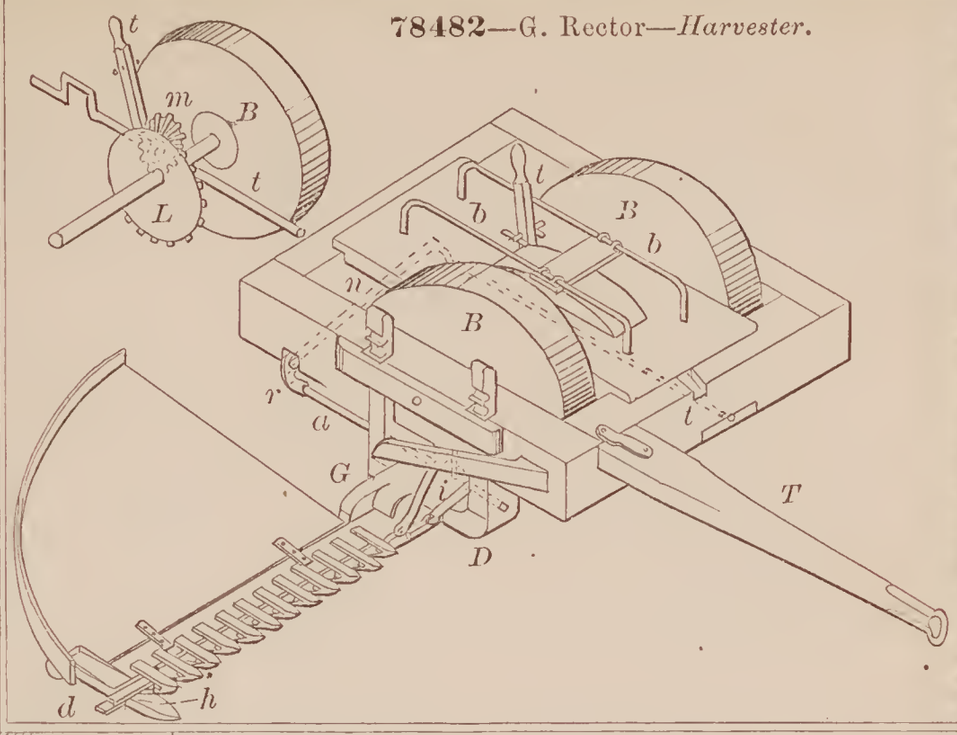
78476—G. W. Packer—*Extension Step Ladder.*



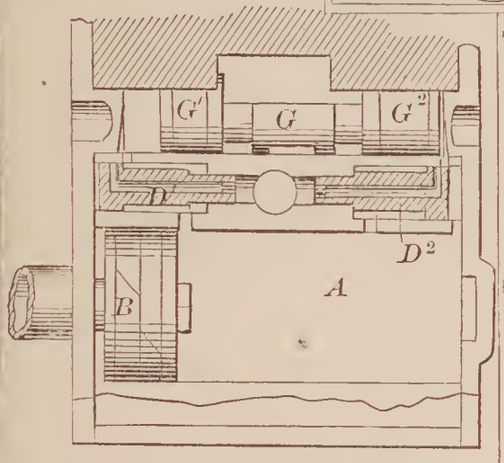
78480—H. Poth—*Wheel.*



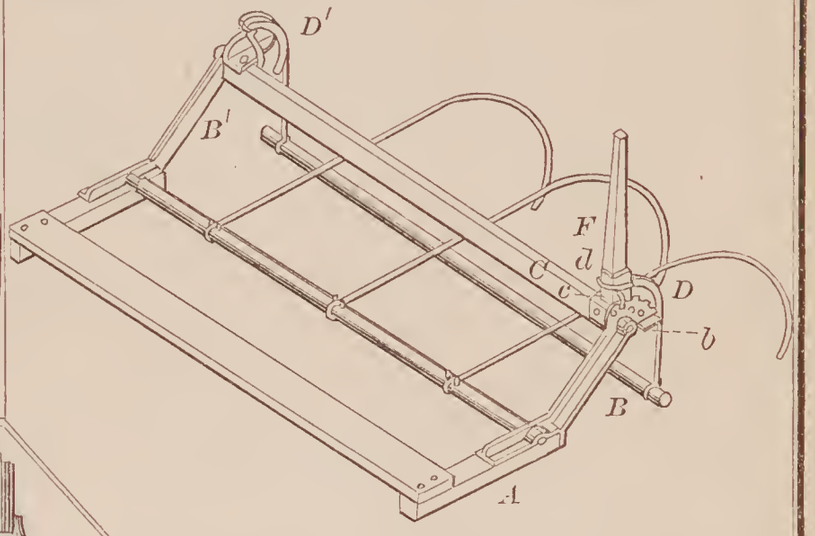
78482—G. Rector—*Harvester.*



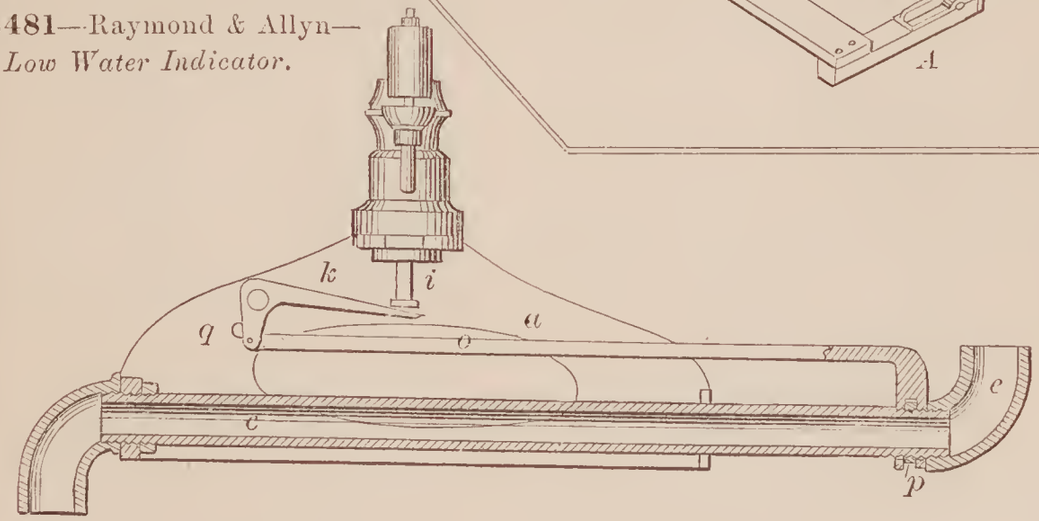
78483—A. K. Rider—*Steam Engine Valve.*



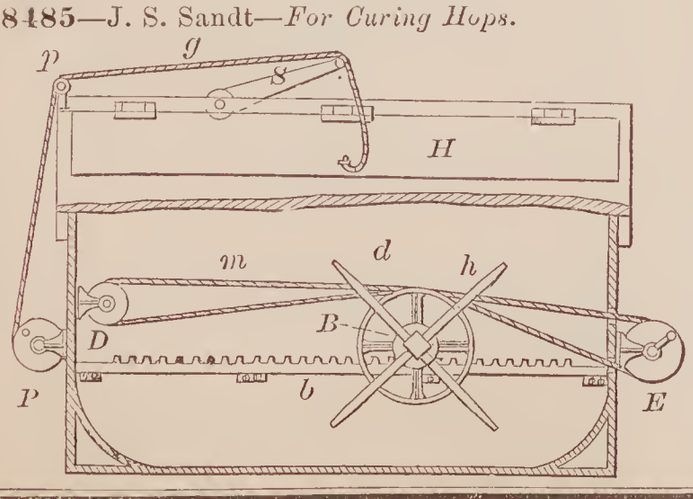
78484—J. S. & I. Rowell—*Elevator for Cultivator Bars.*

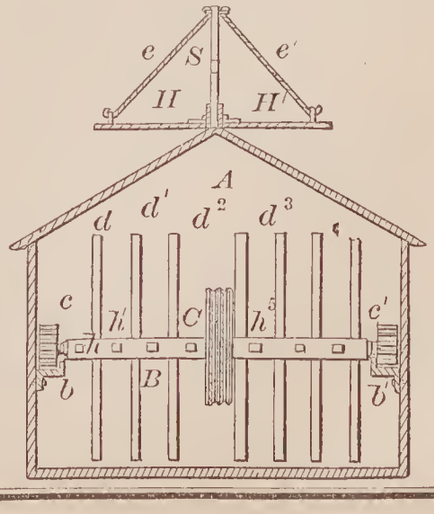


78481—Raymond & Allyn—*Low Water Indicator.*

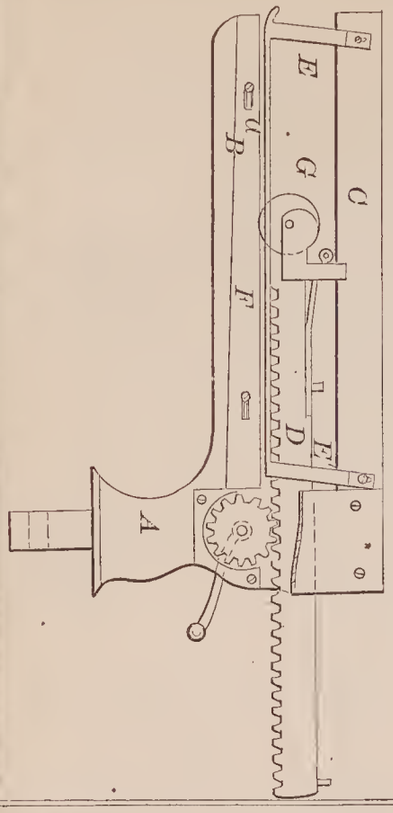


78485—J. S. Sandt—*For Curing Hops.*

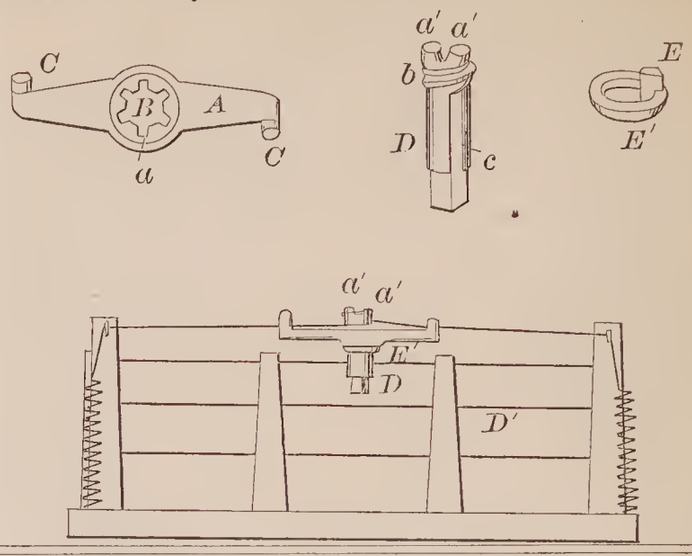




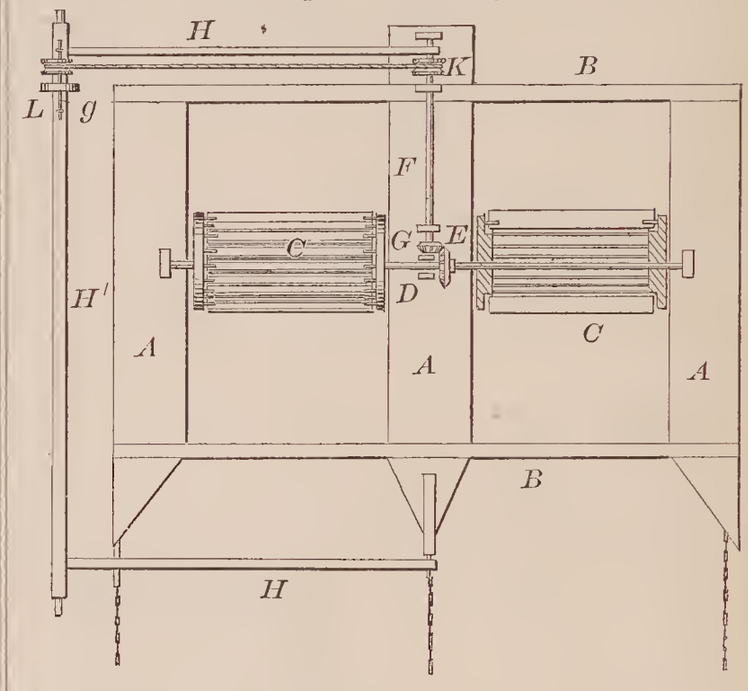
78486—W. Serviss—*For Grooving Sheet Metal.*



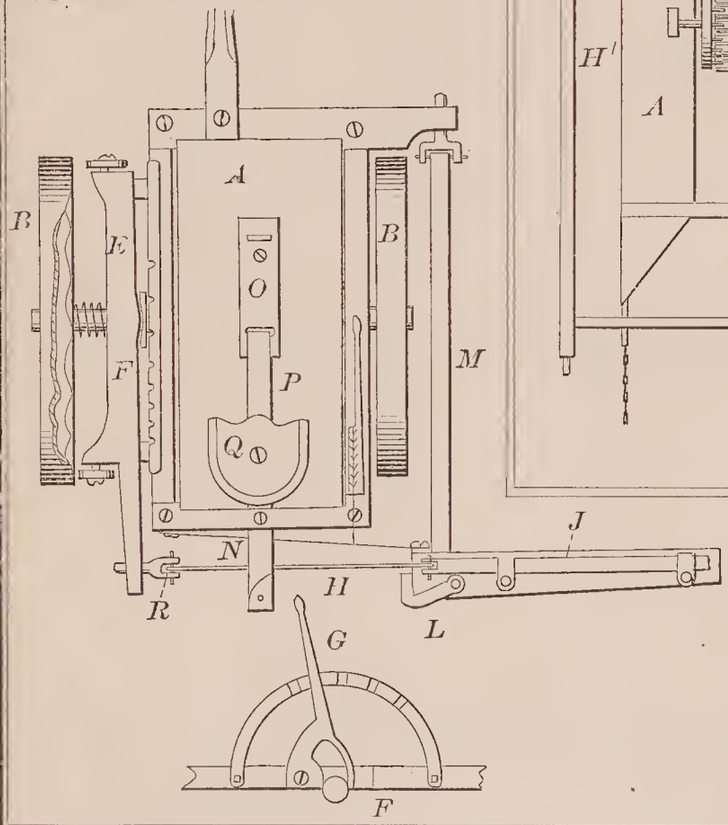
78487—C. Seyler—*Vine Trellis.*



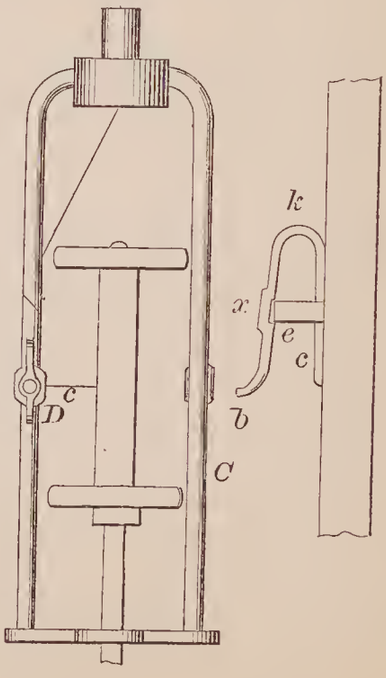
78488—A. B. Shepard—*Floating Water Power.*



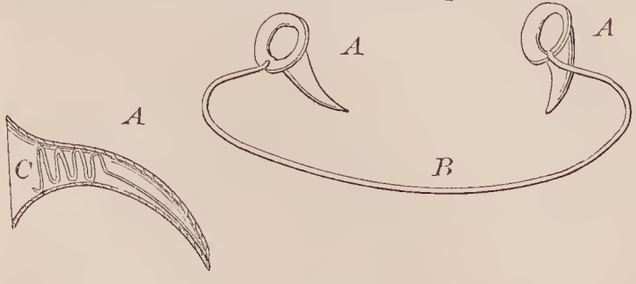
78490—L. D. Snook—*Harvester.*



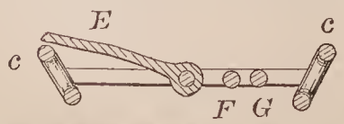
78489—H. Silver—*Spinning Machine Flyer.*



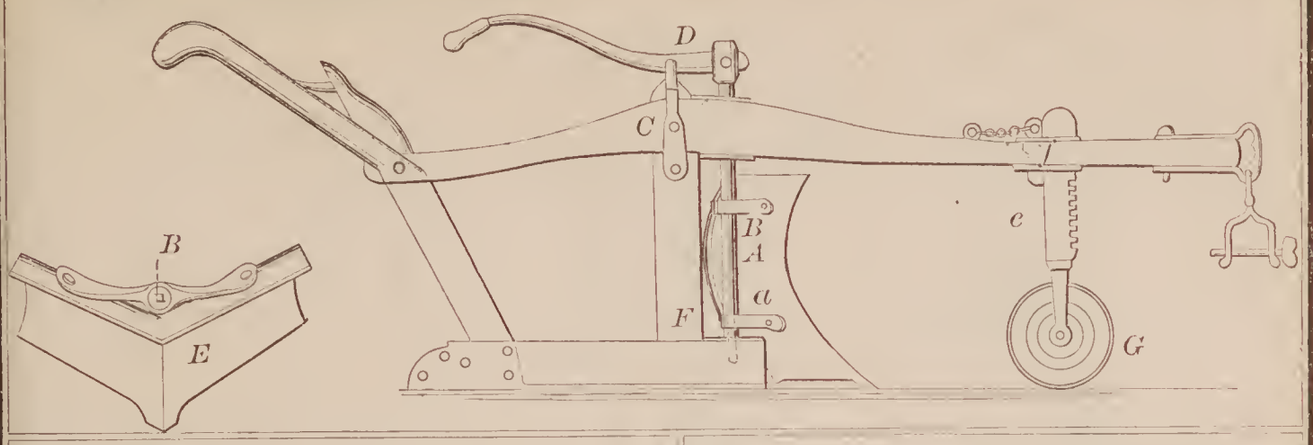
78493—T. H. Stilwell—*Ear Trumpet.*



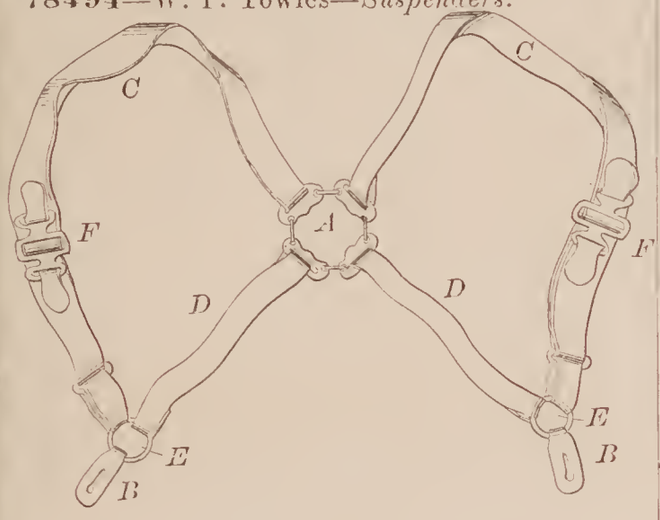
78491—W. W. Spencer—*Self-Fastening Buckle.*



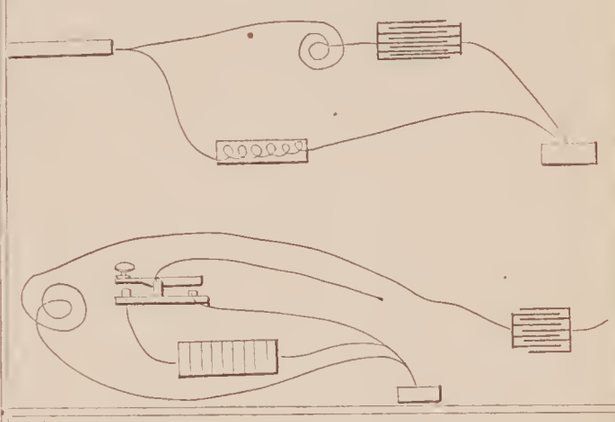
78492—C. Ph. Steinmetz—*Plow.*



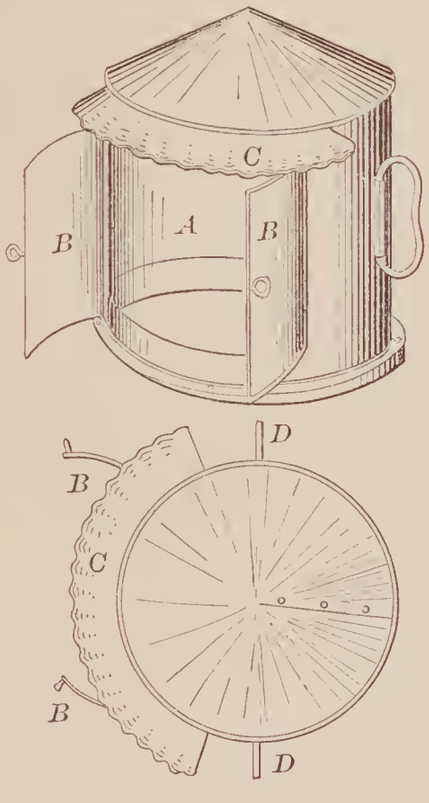
78494—W. P. Towles—*Suspenders.*



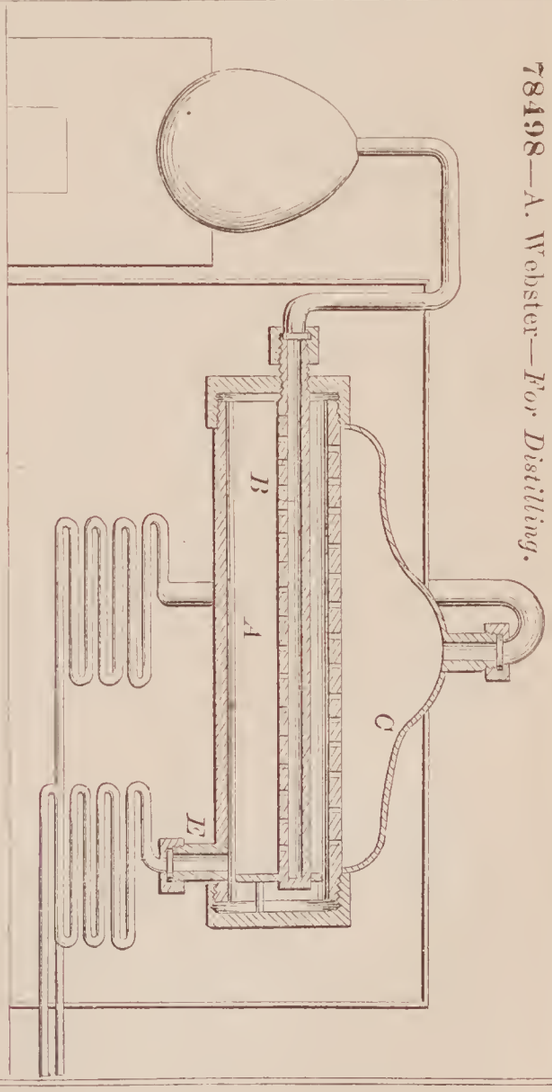
78495—C. F. Varley—*Telegraphing.*



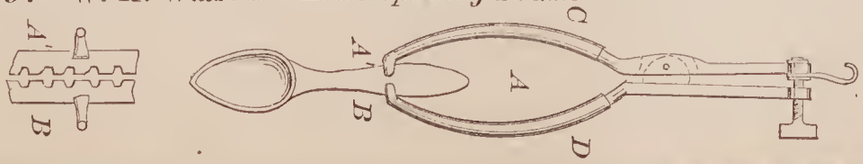
78496—G. Warner—*Cap for Marine Stove Pipes.*



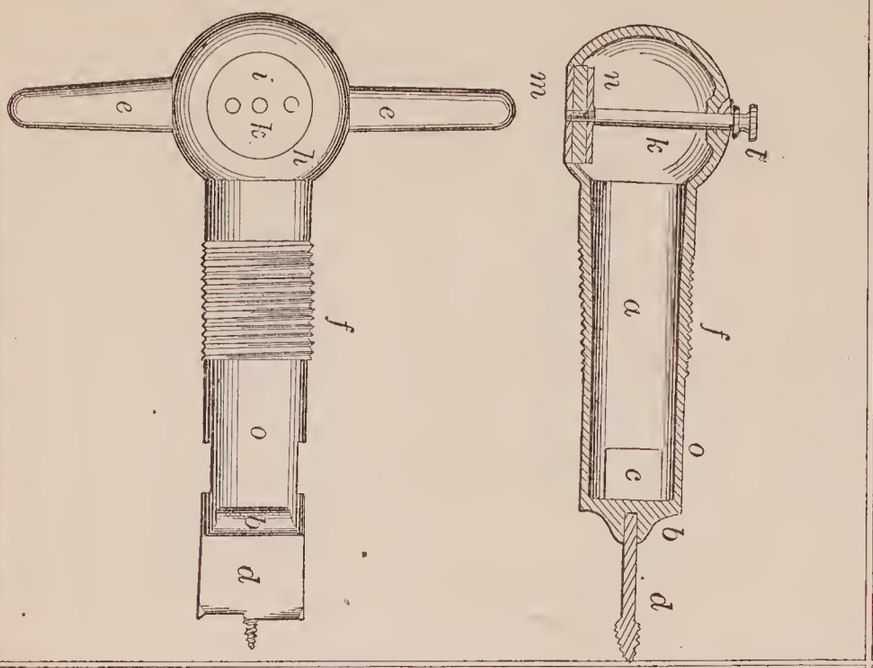
78498—A. Webster—*For Distilling.*



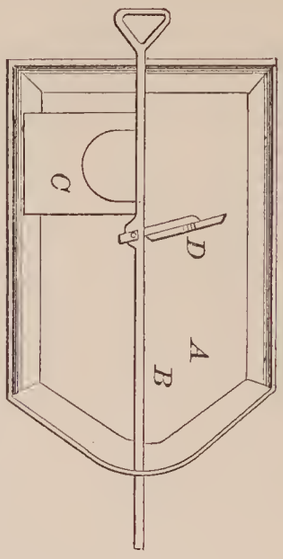
78497—W. H. Watrous—*Electroplating Frame*



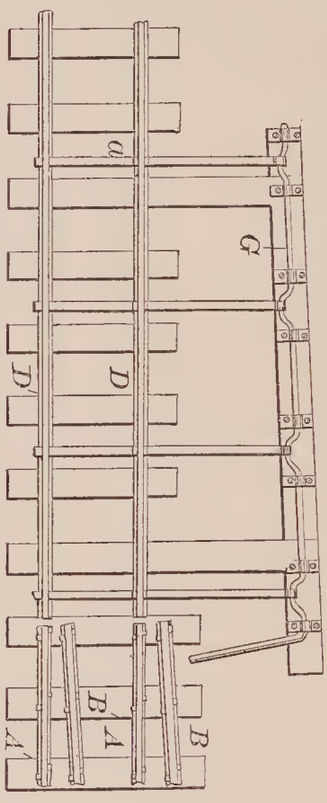
78499—A. Weed—*Self-Boring Stop Cock.*



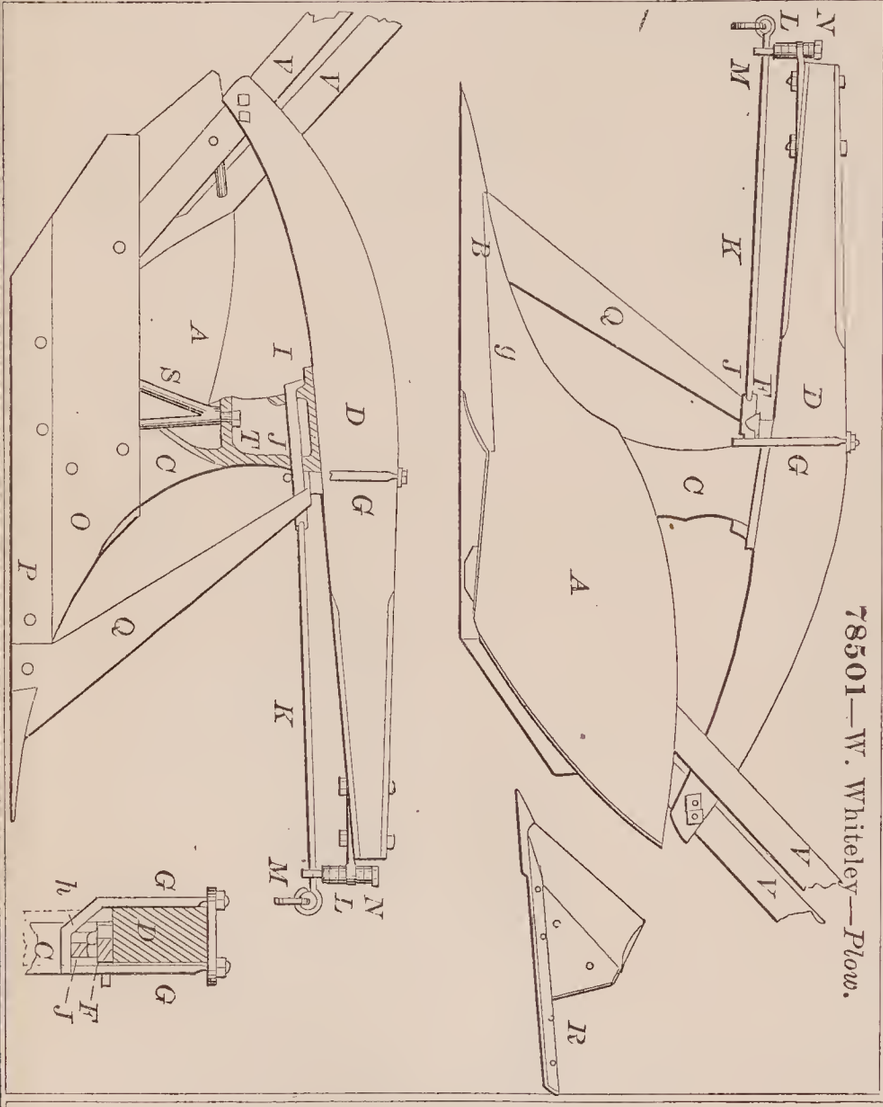
78502—H. Willard—*Butter Worker.*



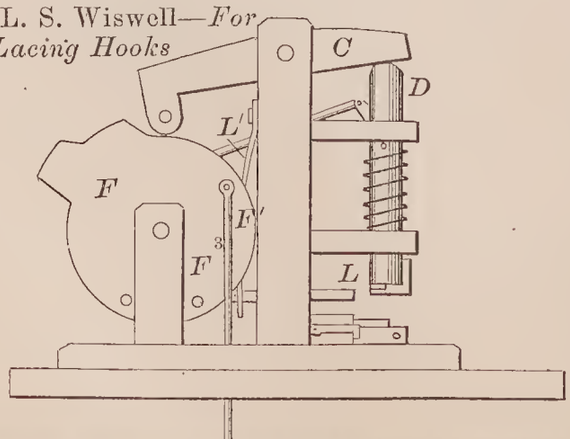
78500—W. Wharton, Jr.—*Railway Switch.*

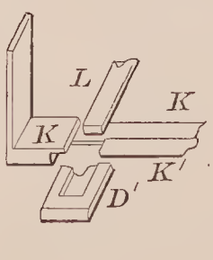


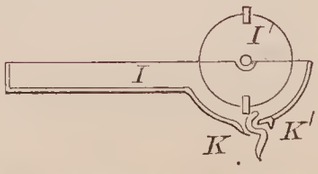
78501—W. Whiteley—*Plow.*



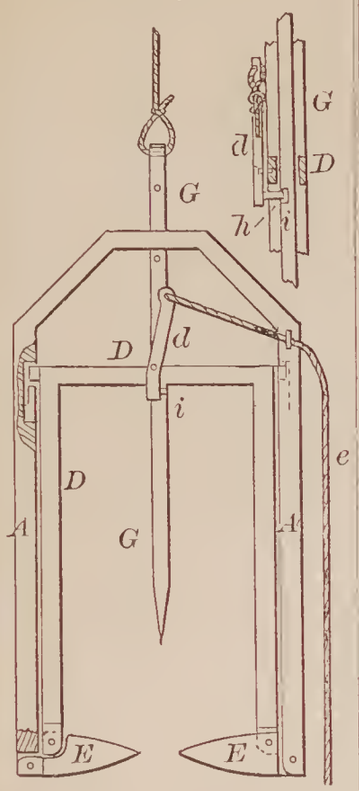
78503—L. S. Wiswell—*For Fastening Lacing Hooks to Gaiters.*



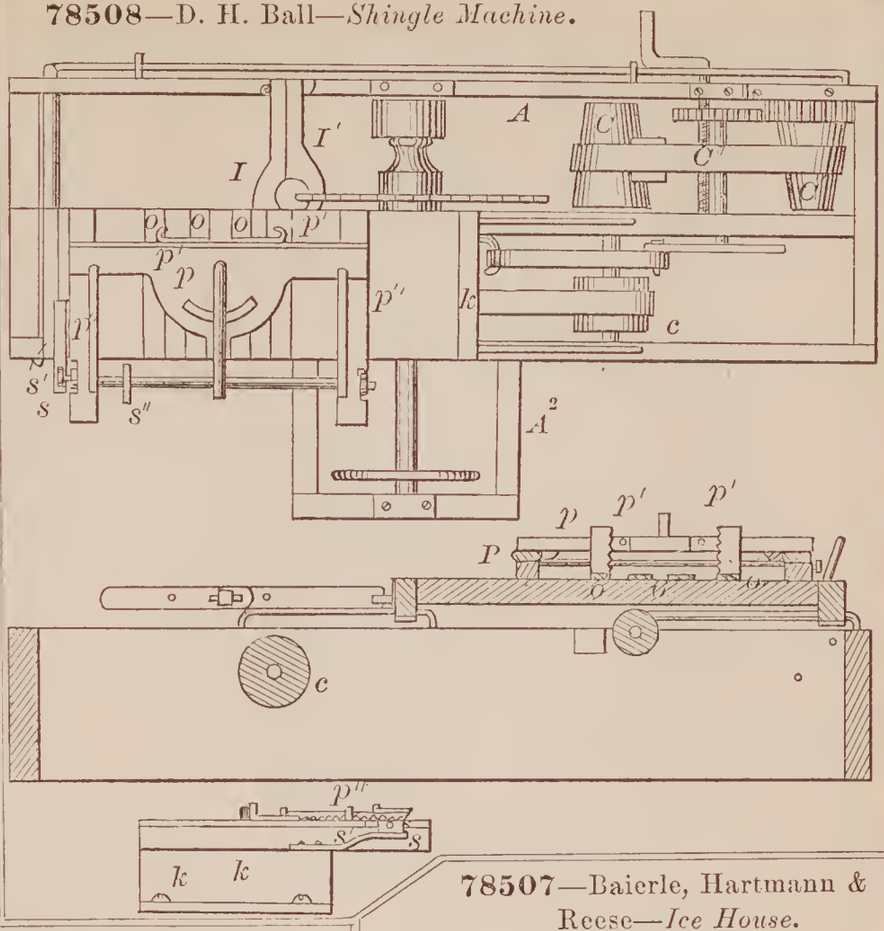




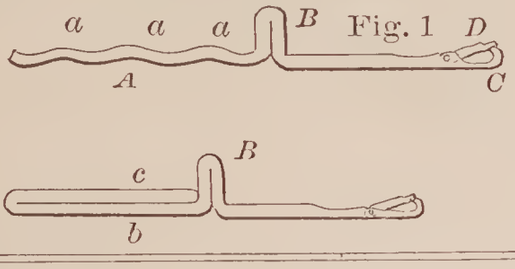
78504—J. Wolfrom—*Horse Hay Fork.*



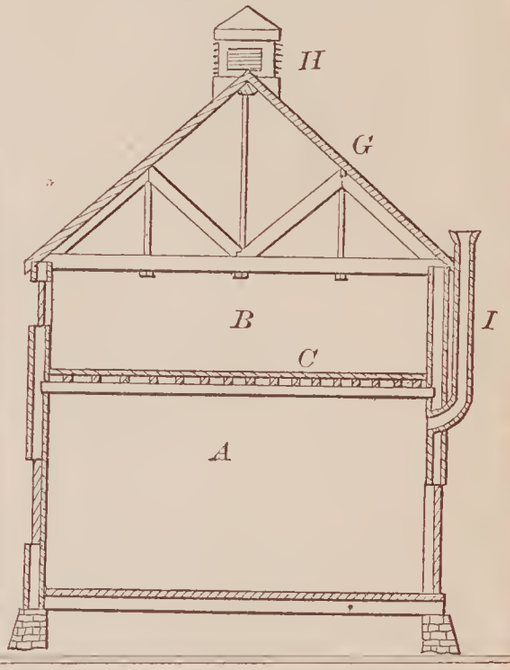
78508—D. H. Ball—*Shingle Machine.*



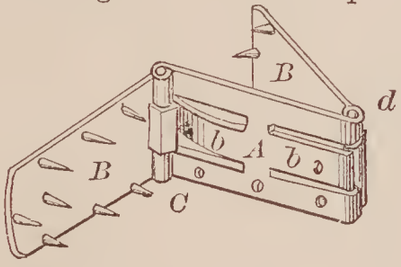
78506—W. Aiken—*Knitting Machine Needle.*



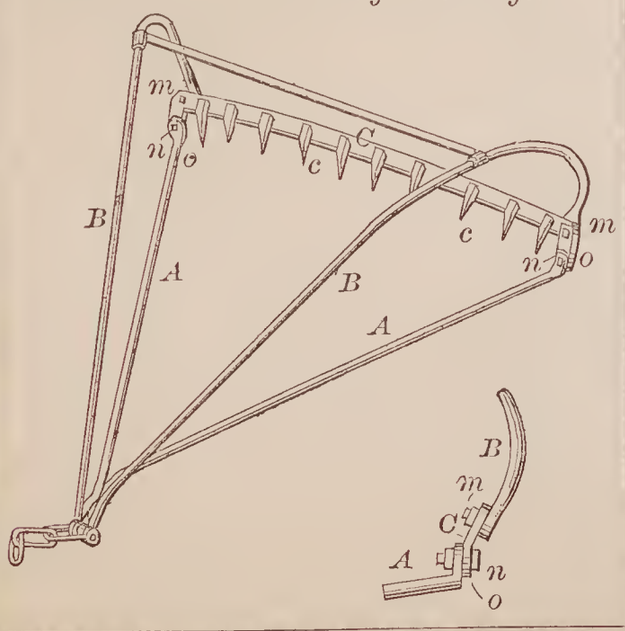
78507—Baierle, Hartmann & Reese—*Ice House.*



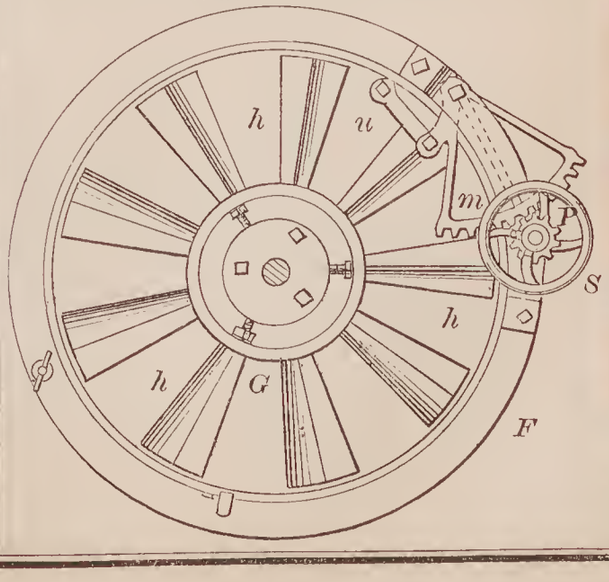
78505—W. Wright—*Garment Clasp.*



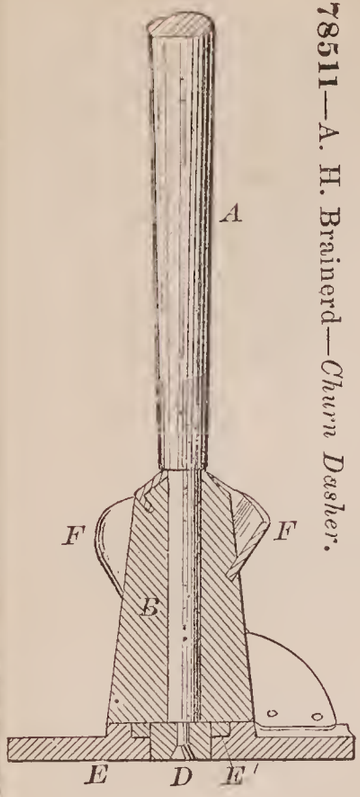
78509—C. T. Belbin—*Oyster Dredge.*



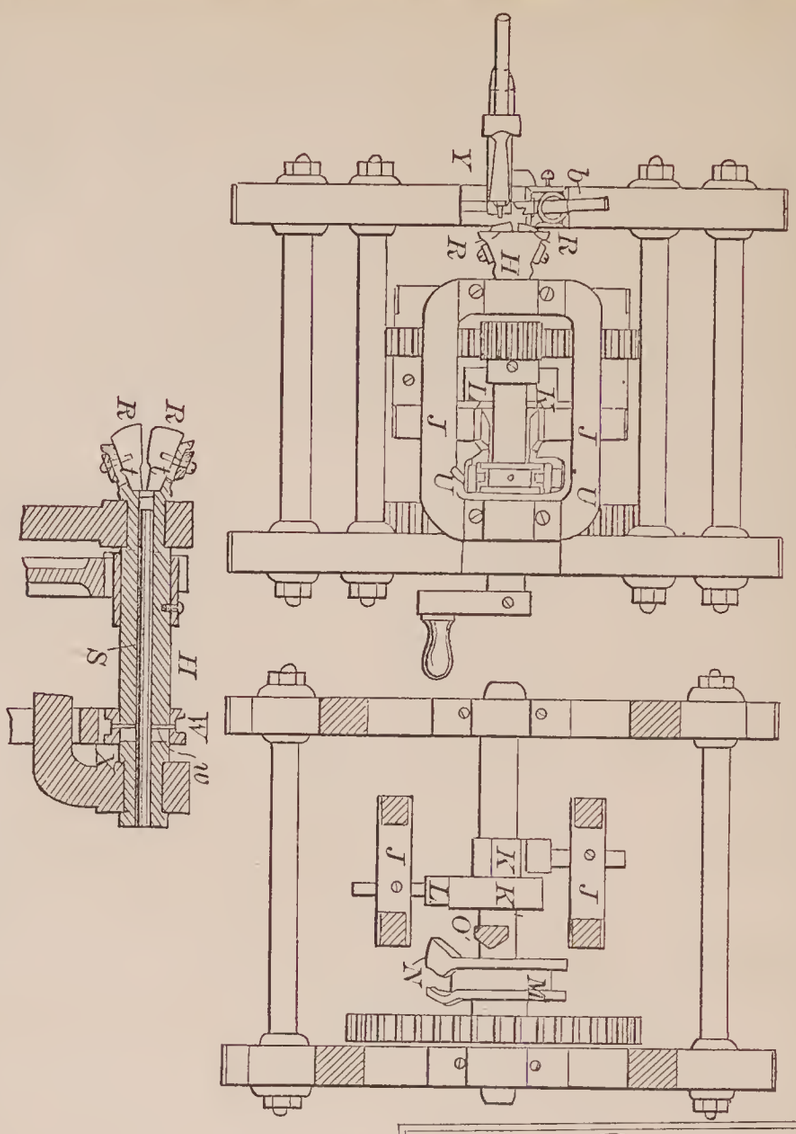
78510—Bodine & Hill—*For Operating Water Wheel Gates.*



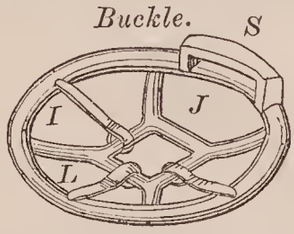
78511—A. H. Brainerd—*Churn Dasher.*



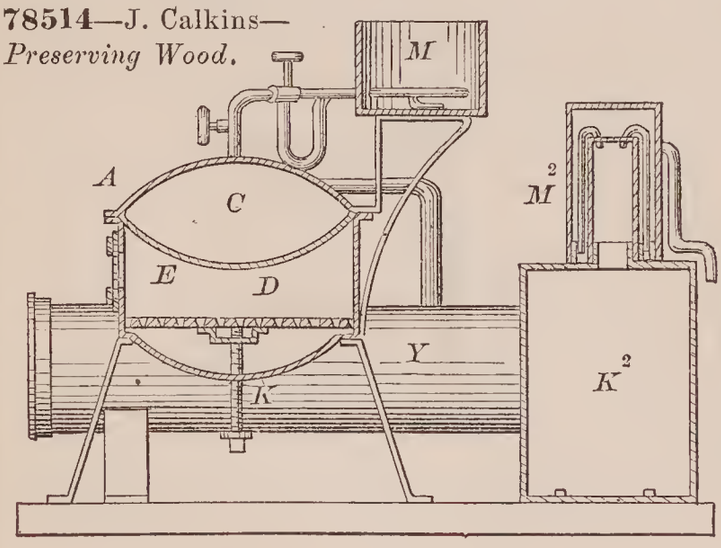
78512—J. Burns—*For Shaving Screws.*



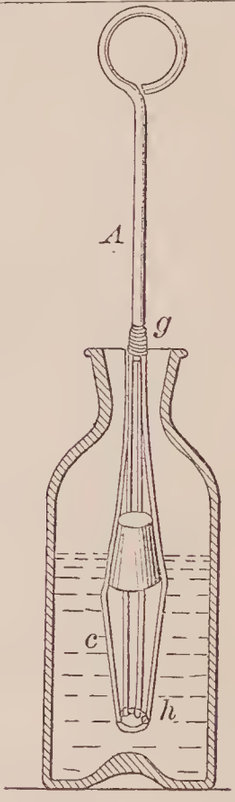
78516—F. Ditton—*Halter Buckle.*

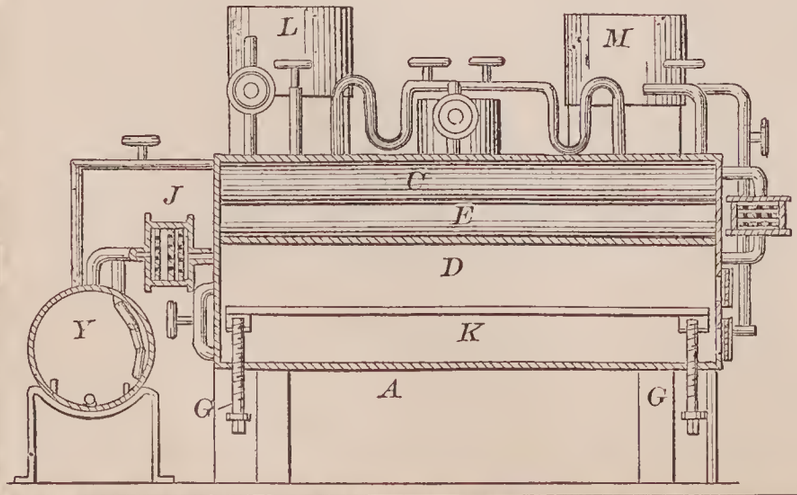


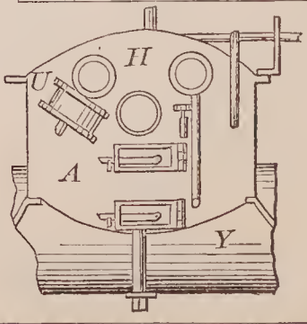
78514—J. Calkins—*Preserving Wood.*



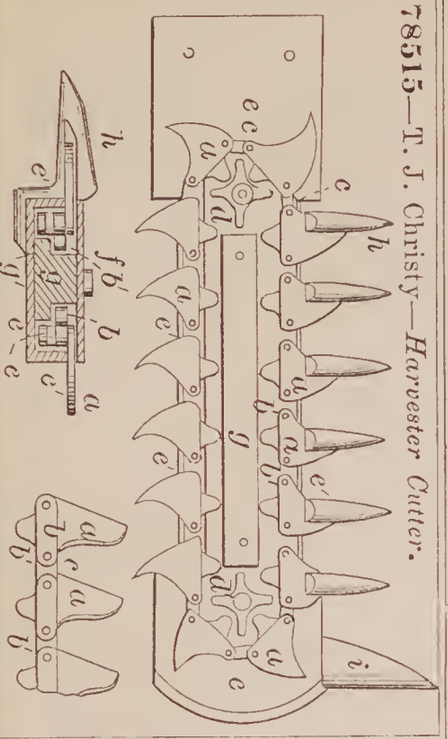
78513—E. Button—*Cork Extractor.*



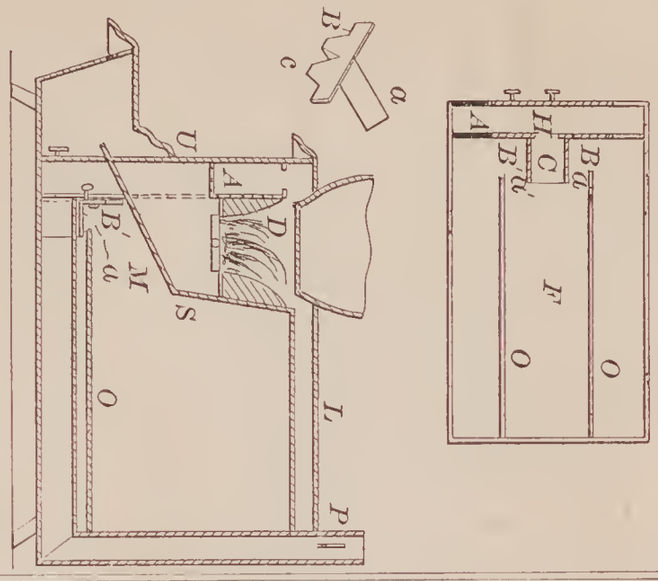




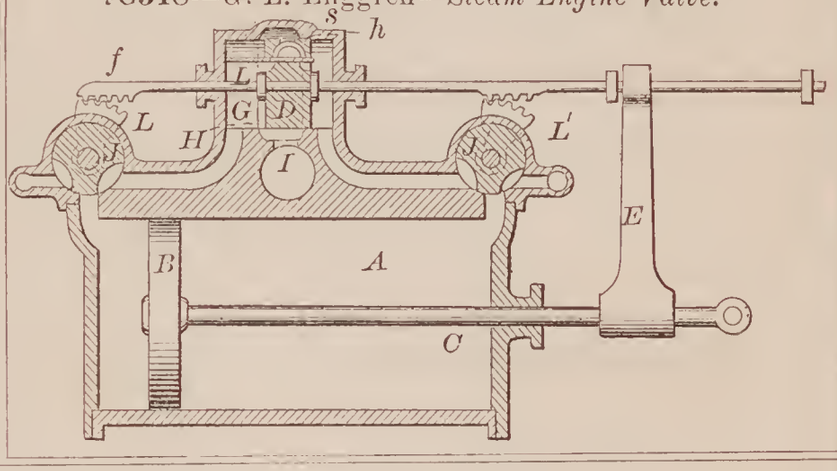
78515—T. J. Christy—*Harvester Cutter.*



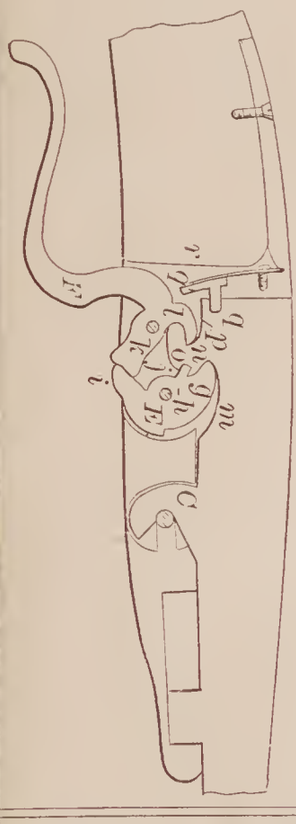
78517—W. Doyle—*Cooking Stove.*



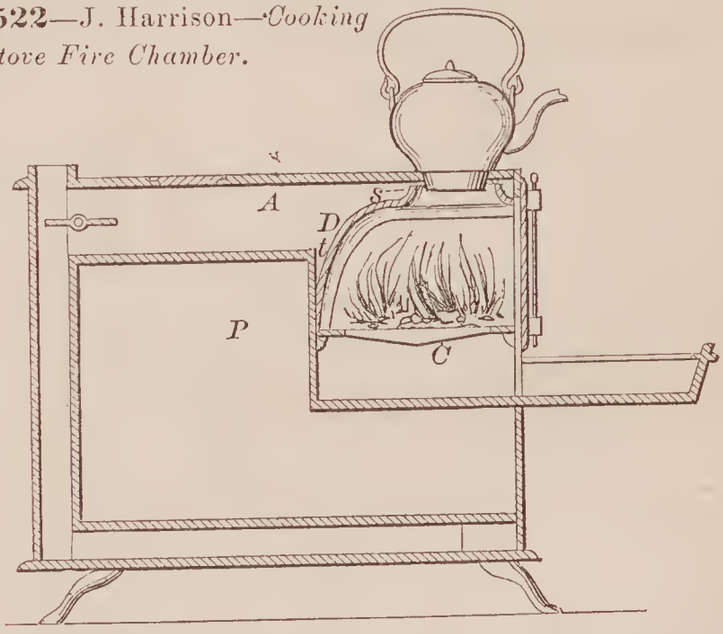
78518—G. L. Enggren—*Steam Engine Valve.*



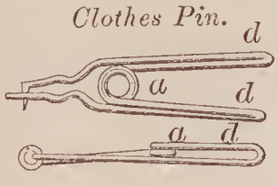
78519—F. H. Escherich—*Fire Arm.*



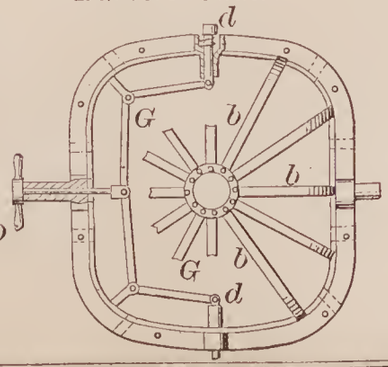
78522—J. Harrison—*Cooking Stove Fire Chamber.*



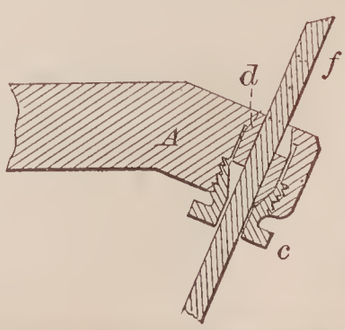
78523—R. Hathaway—*Clothes Pin.*



78525—C. Kaestner—*Barbers' Chair.*

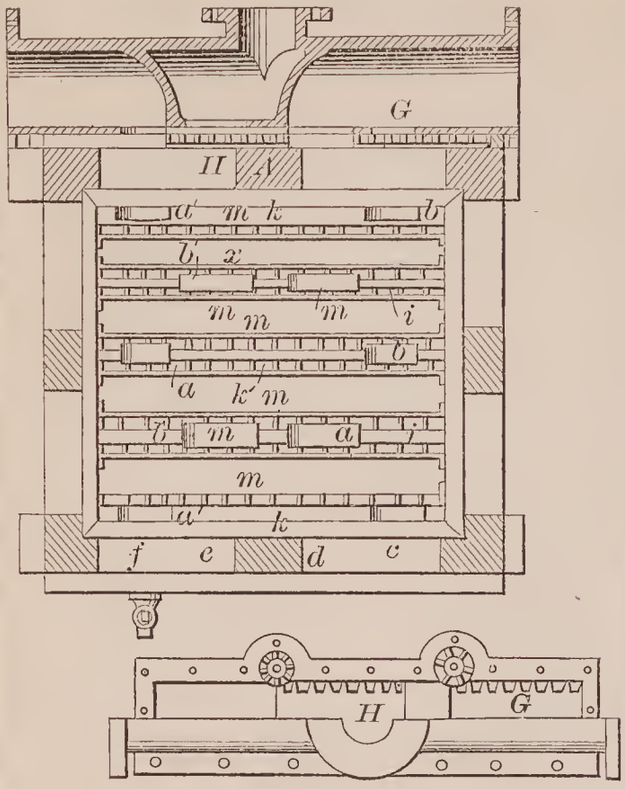


78520—C. H. Fowler—*Lathe Tool Holder.*



78521—S. W. Gear—*Door and Window Catch.*

78524—L. Holms—*Filter.*



78526—J. Kepler—*Churn.*

Fig. 1

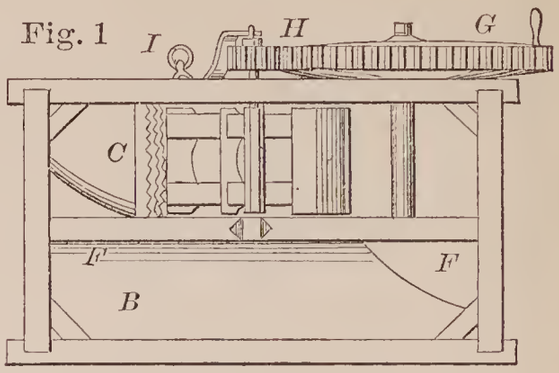


Fig. 4

Fig. 2

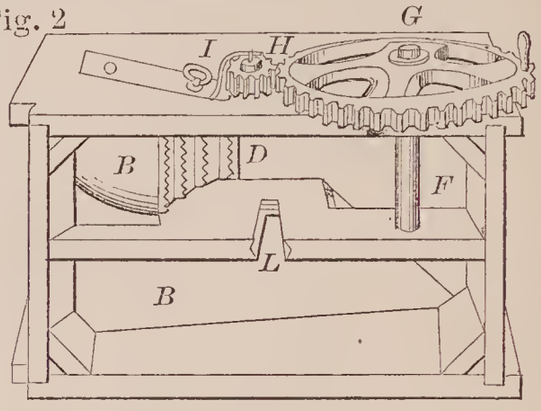


Fig. 3

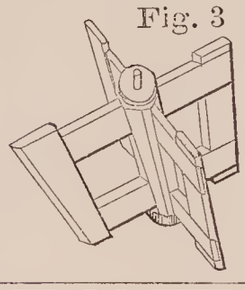
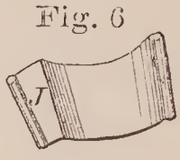
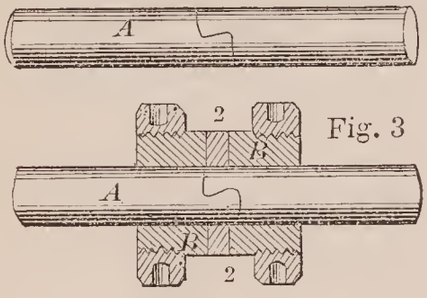


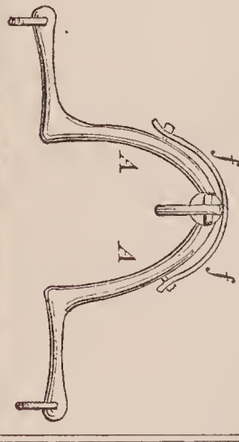
Fig. 6



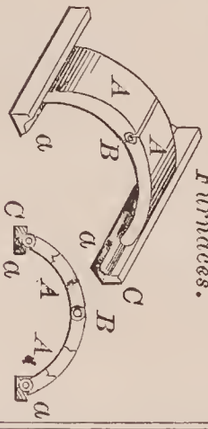
78529—J. F. Light—*Shaft Coupling.*



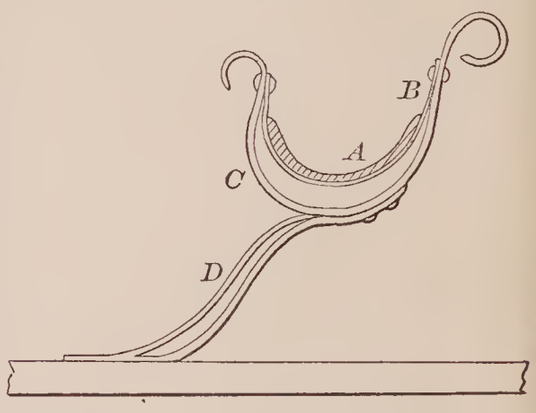
78533—J. McKillop—*Bridle.*



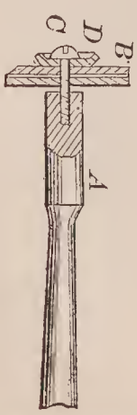
78527—E. Laass—*Arch of Furnaces.*



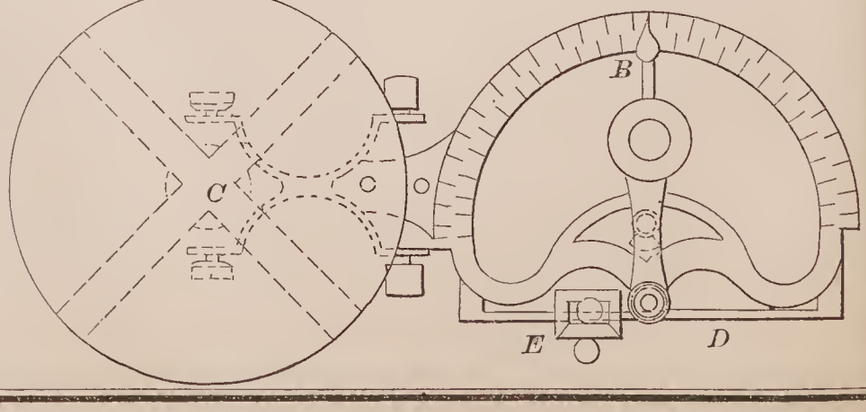
78531—W. I. Ludlow—*Harvester Seat*



78528—J. Lee—*Lamp Chimney Cleaner.*

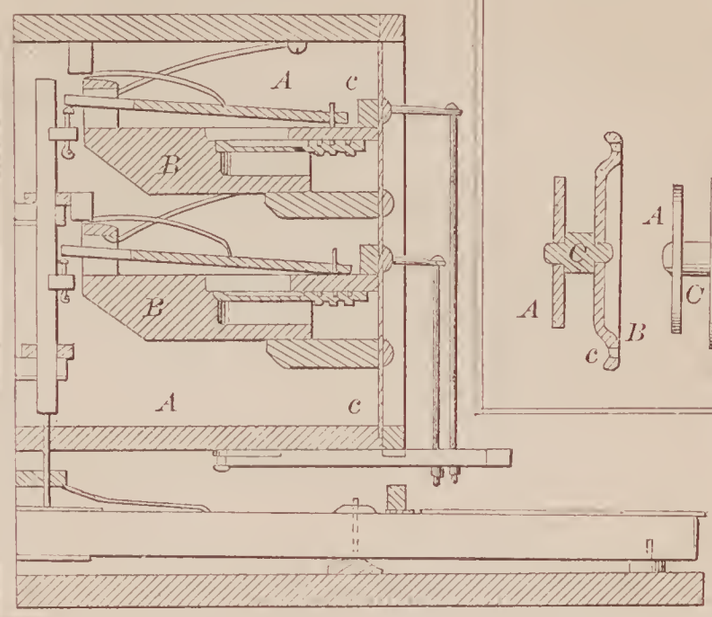


78532—L. A. Matos—*Balance.*

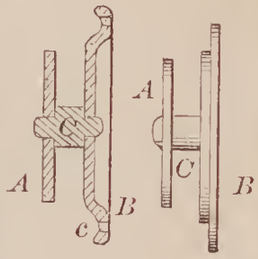


78534—J. Moses—*Galvanic Spectacles.*

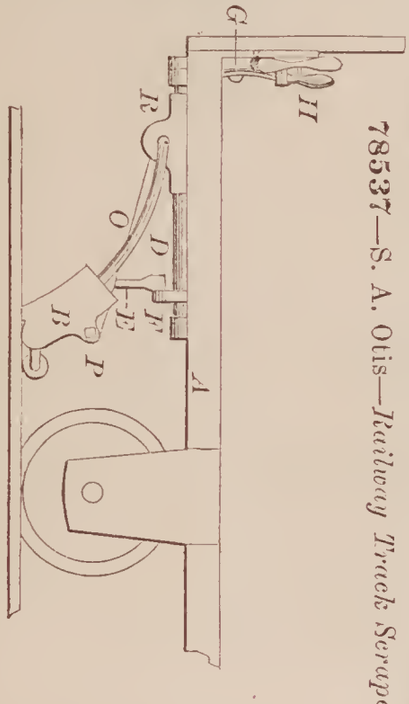
78536—E. P. Needham—*Reed Musical Instrument.*

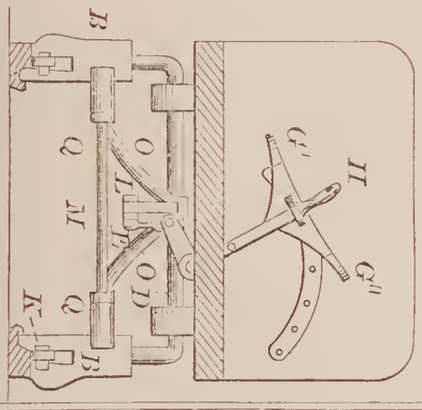


78535—C. Mudler—*Button.*

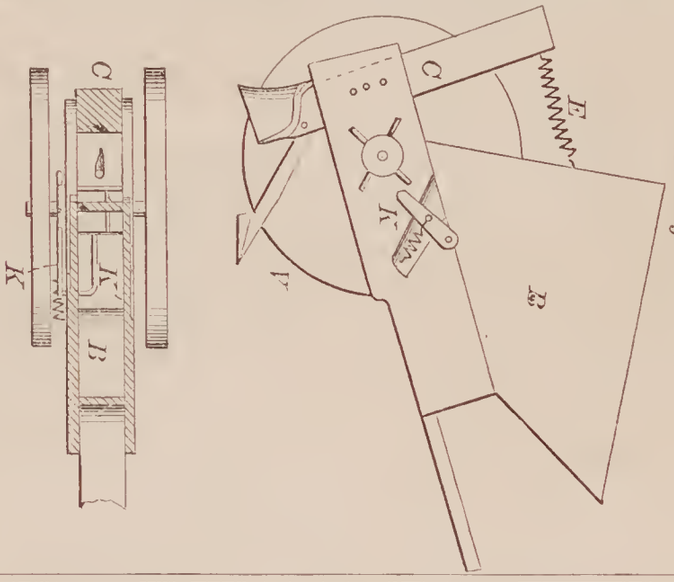


78537—S. A. Otis—*Railway Track Scraper.*

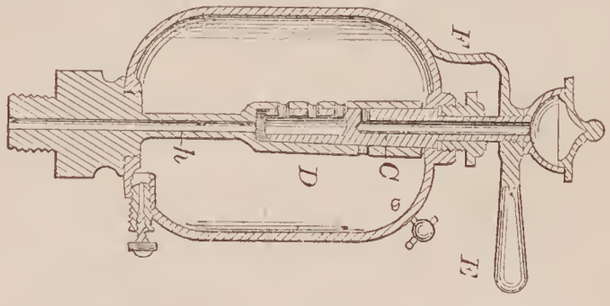




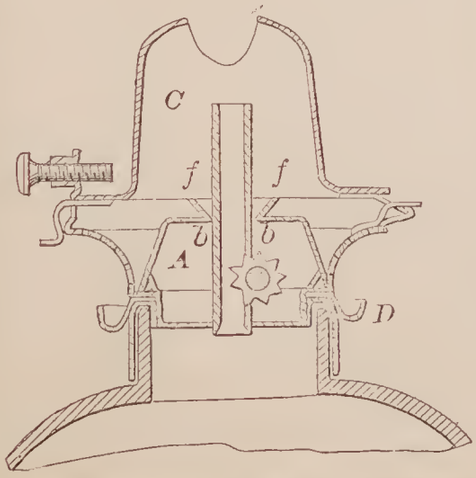
78538—Perkins & Colburn—*Seed Sowing Machine.*



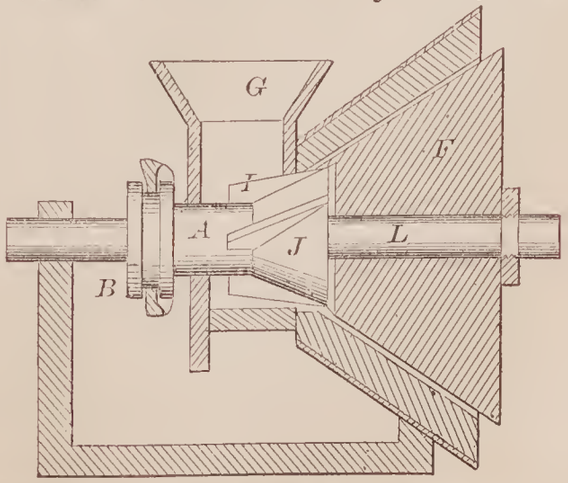
78540—J. Ross—*Steam Engine Lubricator.*



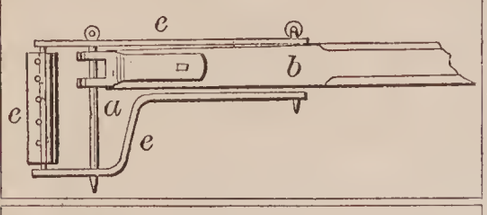
78539—W. Robinson—*Lamp Burner.*



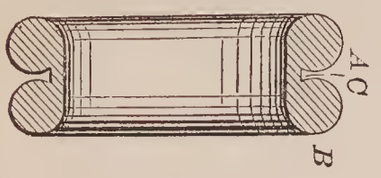
78541—J. Ross—*Feed Regulator for Mills.*



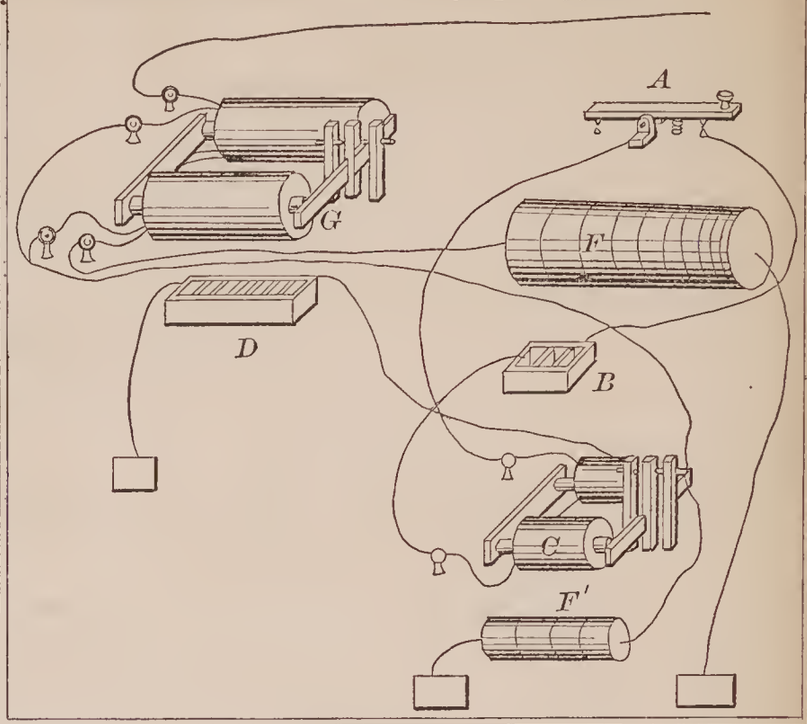
78542—R. Sandiford—*Plow Clevis.*



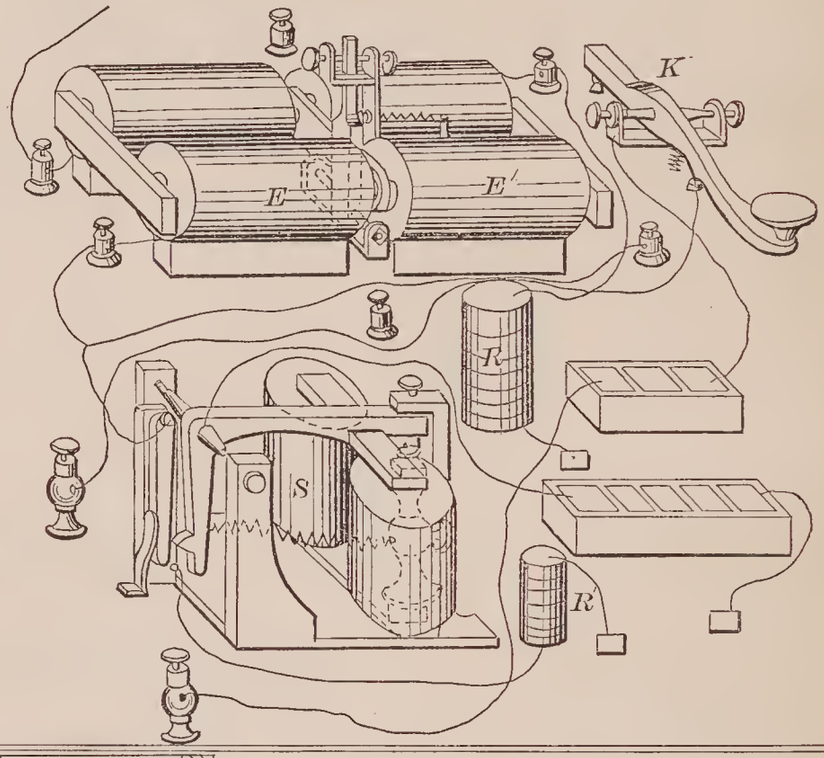
78546—E. F. Stacy—*Nipper.*



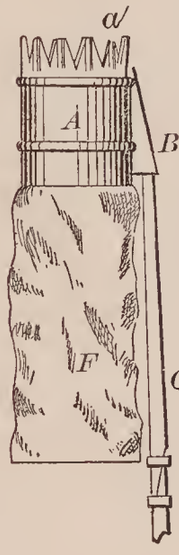
78547—J. B. Stearns—*Telegraph Apparatus.*



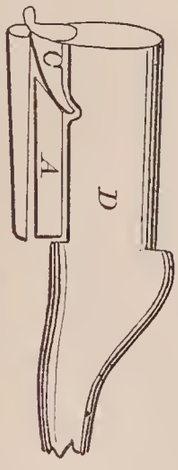
78548—J. B. Stearns—*Telegraph Apparatus.*



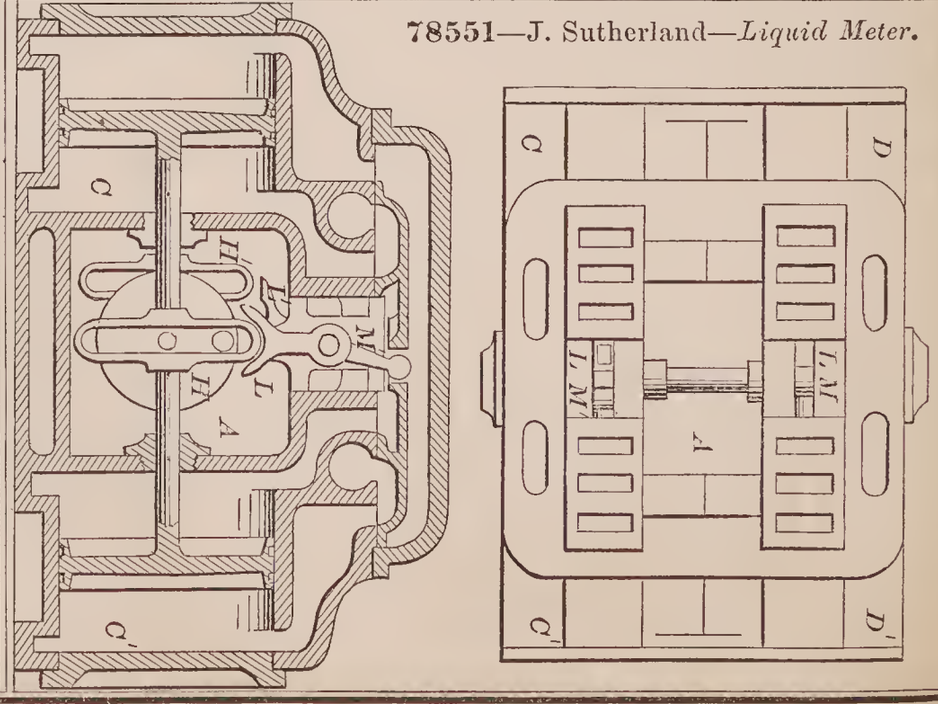
78549—A. S. Stevens—*Fruit Picker.*



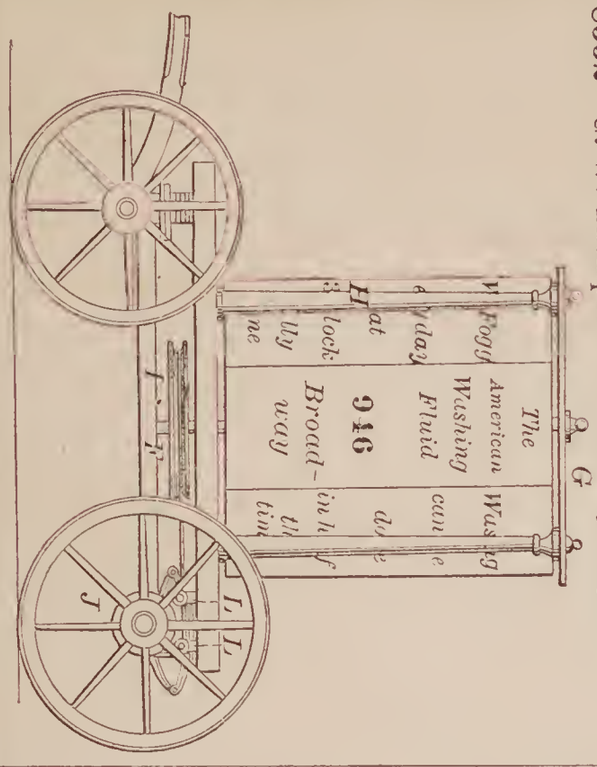
78550—B. D. Stevens—*Axe Handle.*



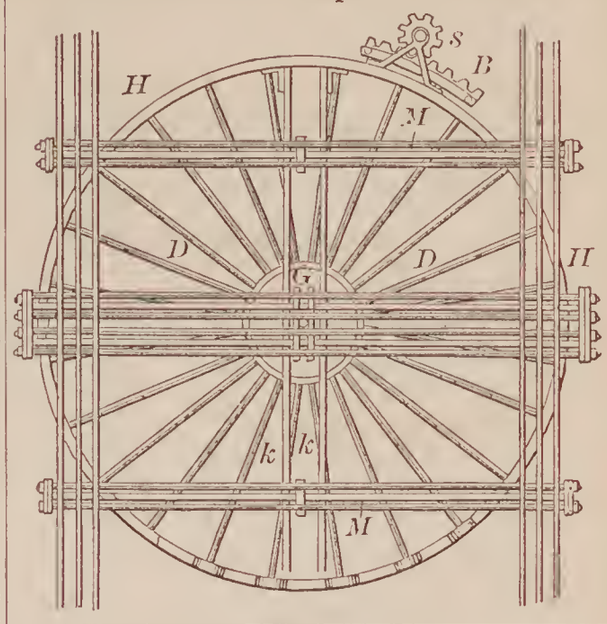
78551—J. Sutherland—*Liquid Meter.*



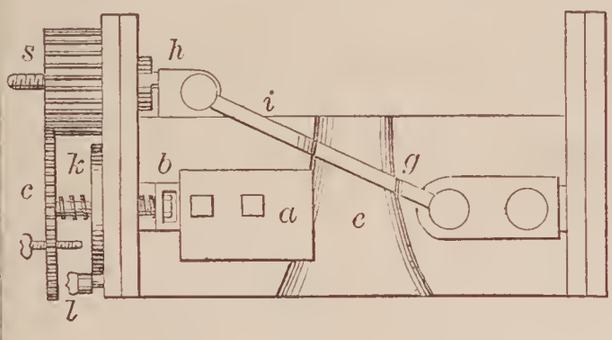
78552—G. W. Thompson—*Advertising Wagon.*

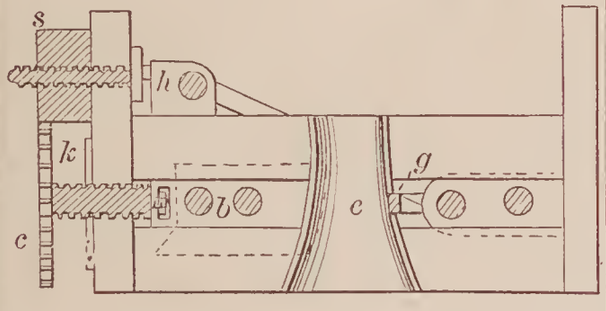


78553—J. K. Thompson—*Turn Table.*

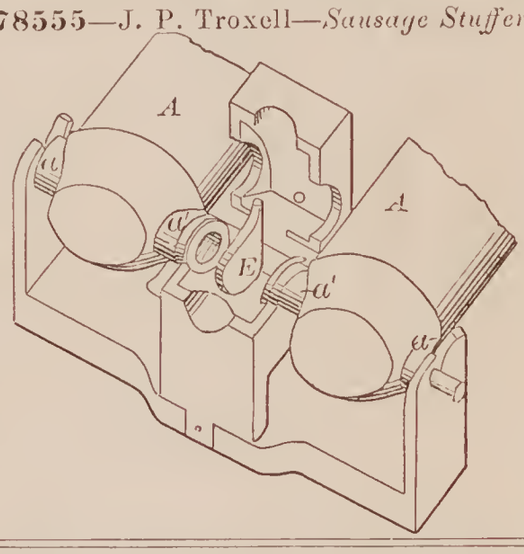


78554—N. L. Tomlinson—*For Making Tree-Nails.*

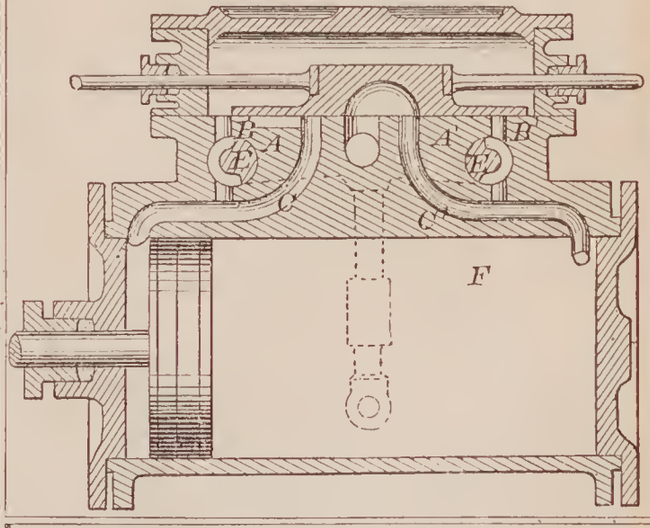




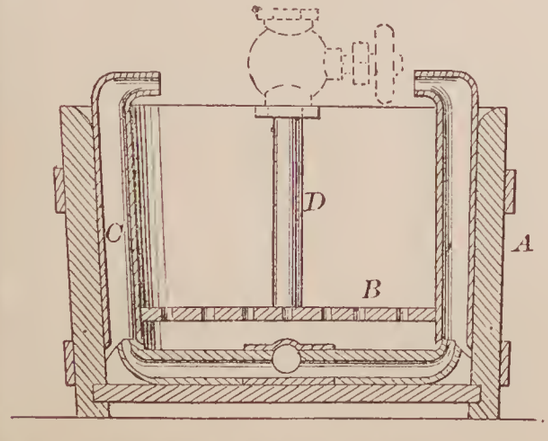
78555—J. P. Troxell—*Sausage Stuffer.*



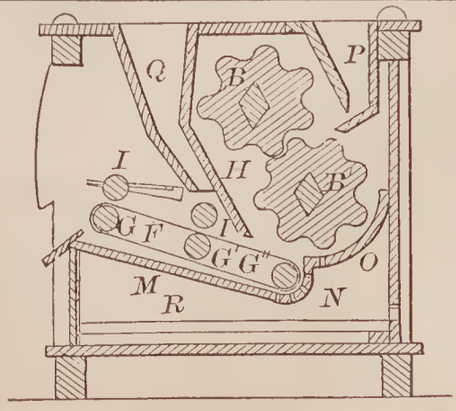
78556—G. Verry—*Valve and Steam Passage.*



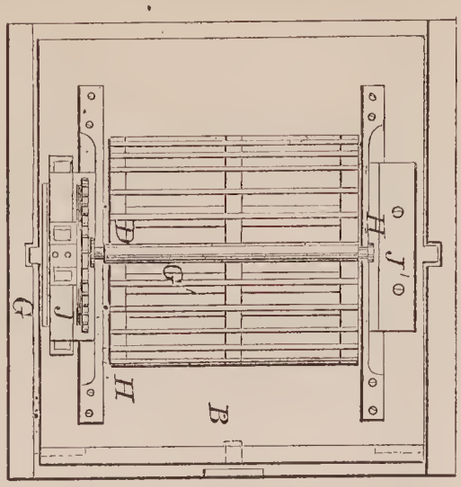
78559—M. Waterhouse—*For Dyeing.*

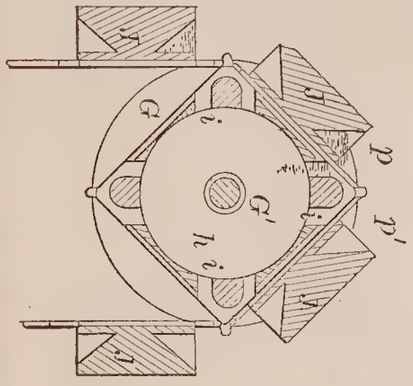


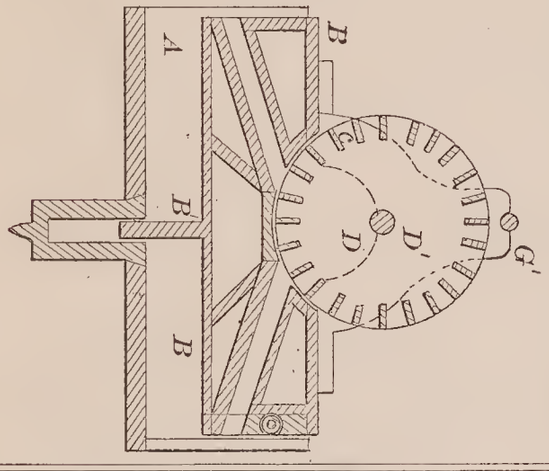
78558—J. Walton—*Cider and Wine Mill.*



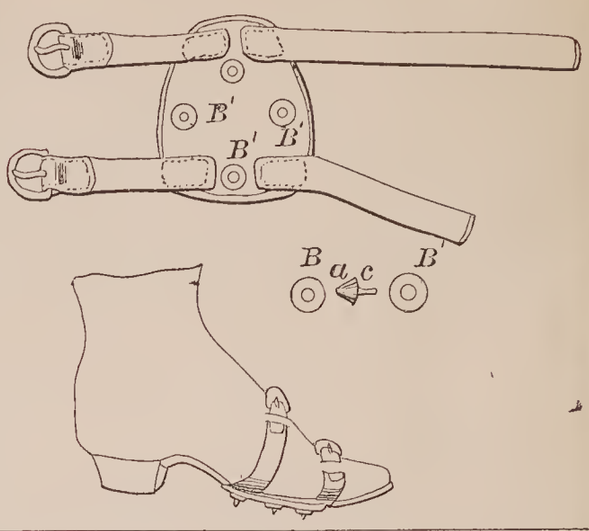
78557—W. W. Virdin—*Tide Motor.*



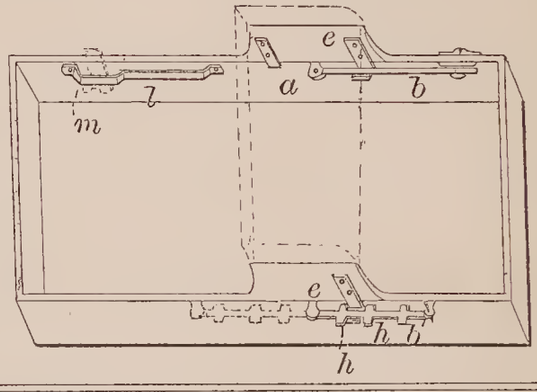




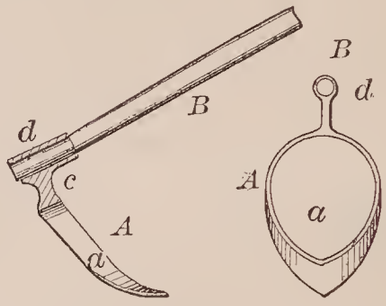
78560—W. C. Wells—*Iee Creeper.*



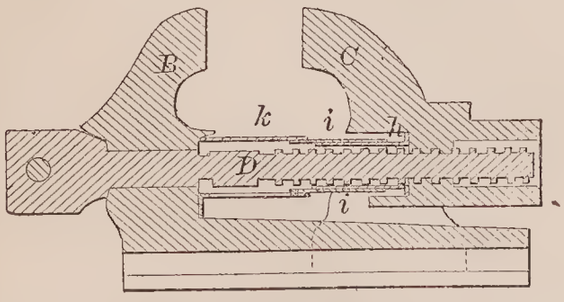
78563—J. H. Adams—*Carriage Seat.*



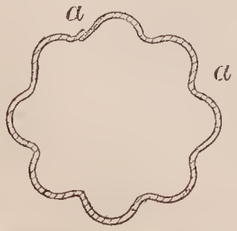
78561—I. N. Wood—*Hoe.*



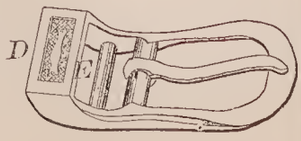
78565—Q. S. Backus—*Vise.*



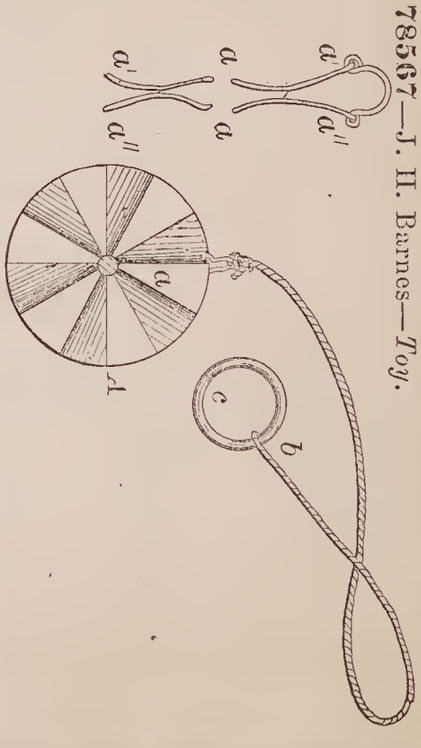
78564—W. Austin—*Sheet Metal Pipe.*



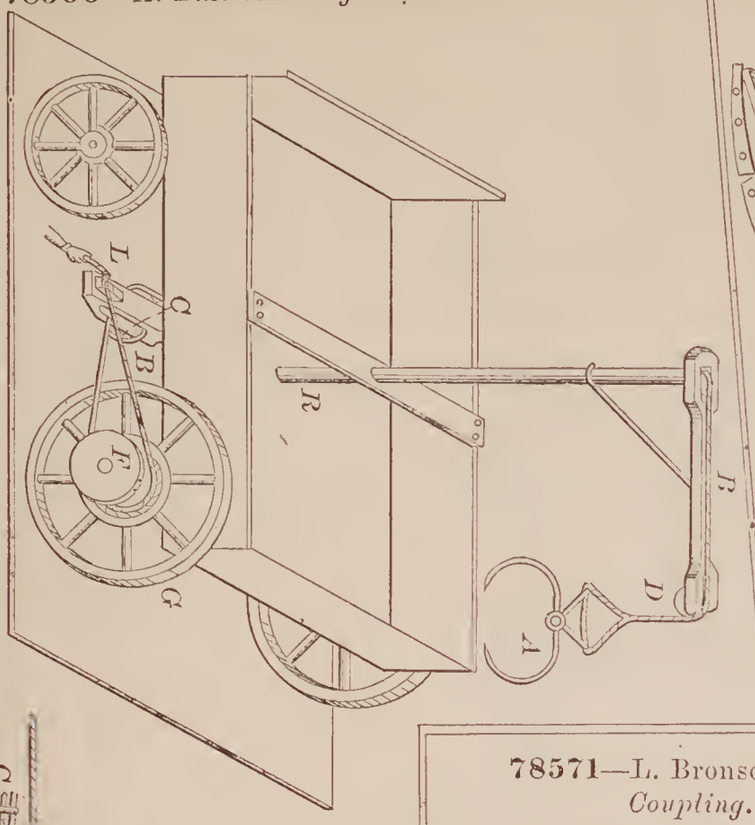
78568—A. Bedford—*Harness Buckle.*

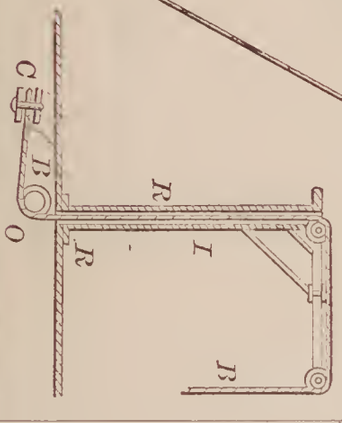


78567—J. H. Barnes—*Toy.*

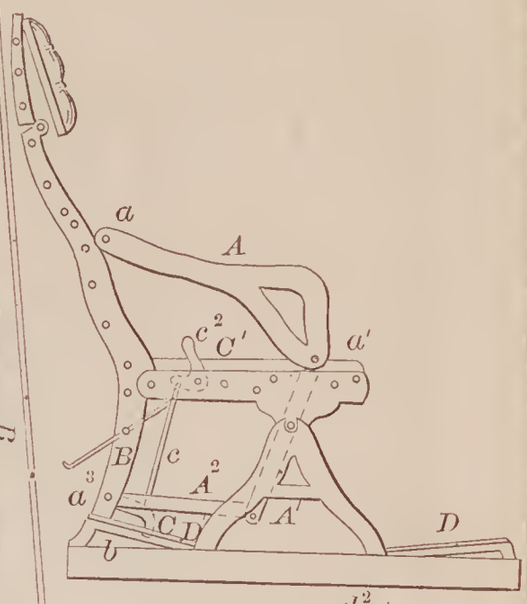


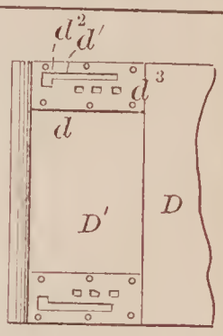
78566—A. Barker—*Hay Loader.*



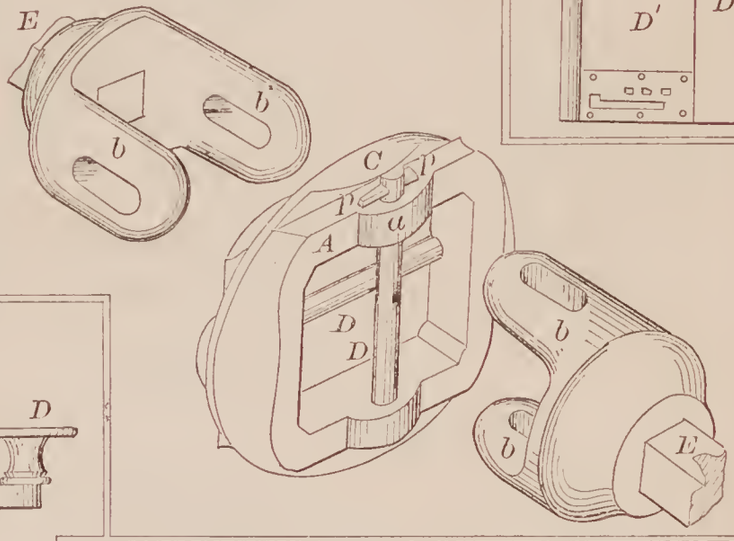


78570—W. N. Bragg—*Car Seat and Chair.*

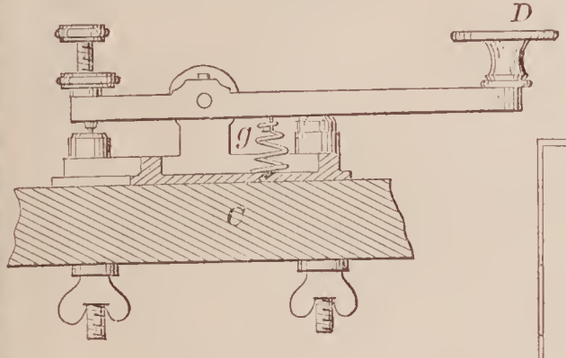


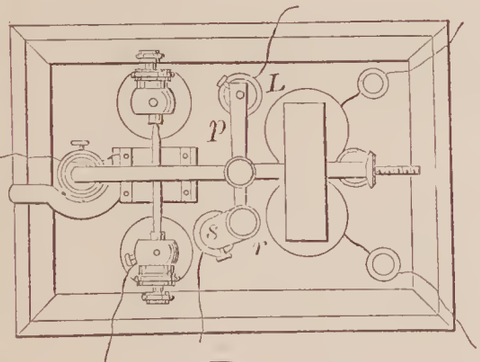


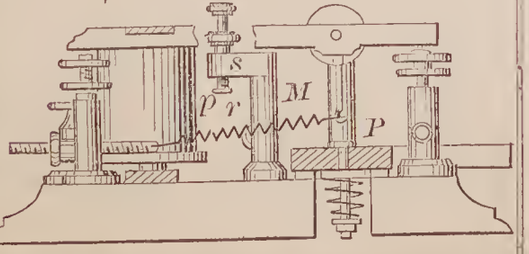
78571—L. Bronson—*Shaft Coupling.*



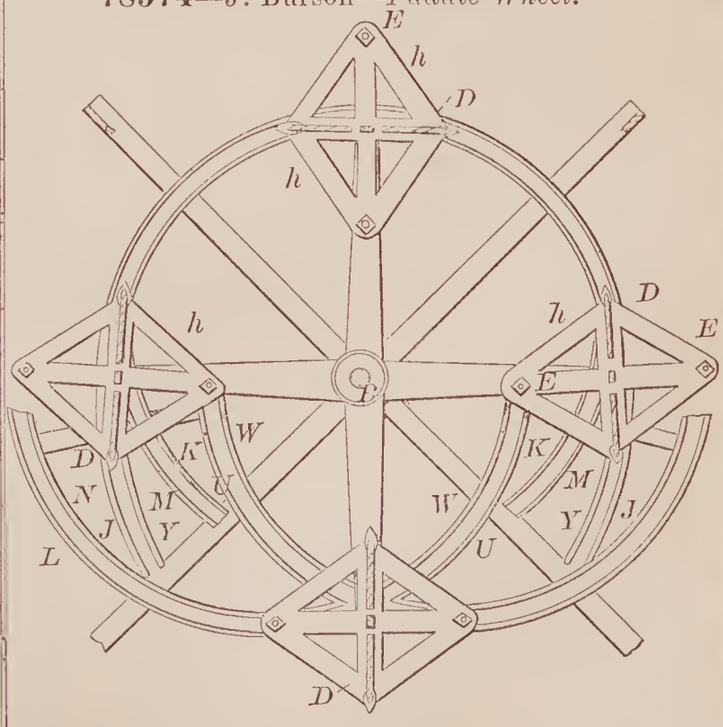
78573—W. G. Brownson—*Telegraphic Repeater.*



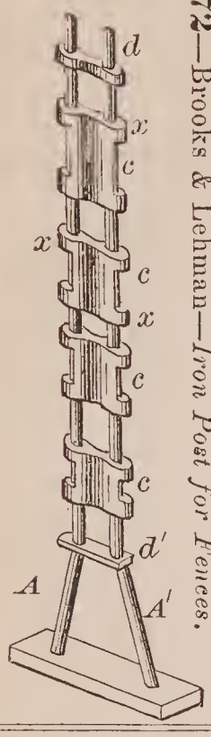




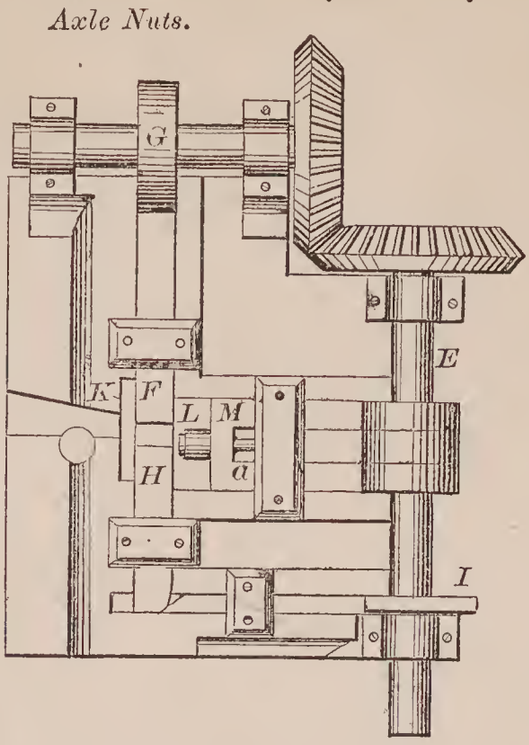
78574—J. Burson—*Paddle Wheel.*



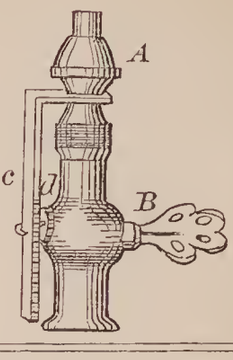
78572—Brooks & Lehman—*Iron Post for Fences.*



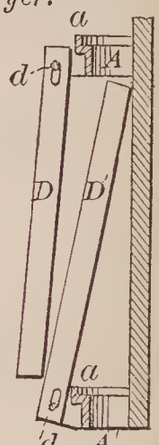
78576—Candee & Taylor—*Die for Axle Nuts.*



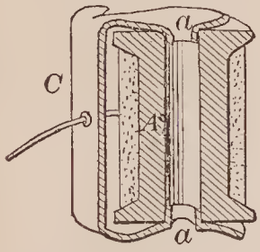
78578—S. L. Cole—*Gas Burner.*

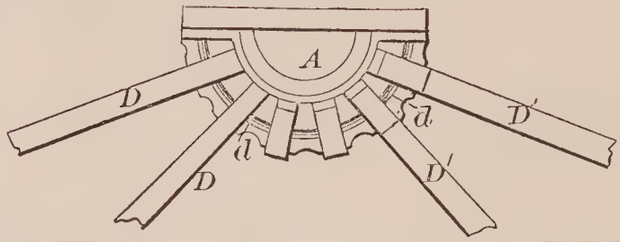


78575—J. M. Butters—*Clothes Dryer.*

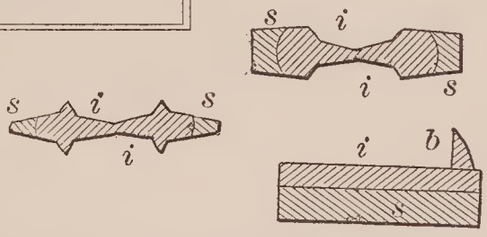


78577—W. C. Cleveland—*Spool Guard.*

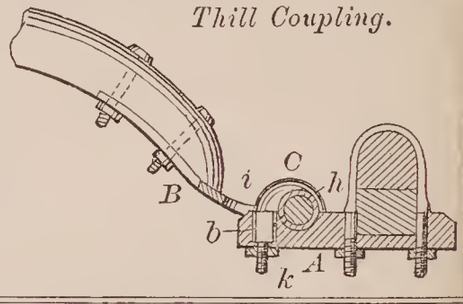




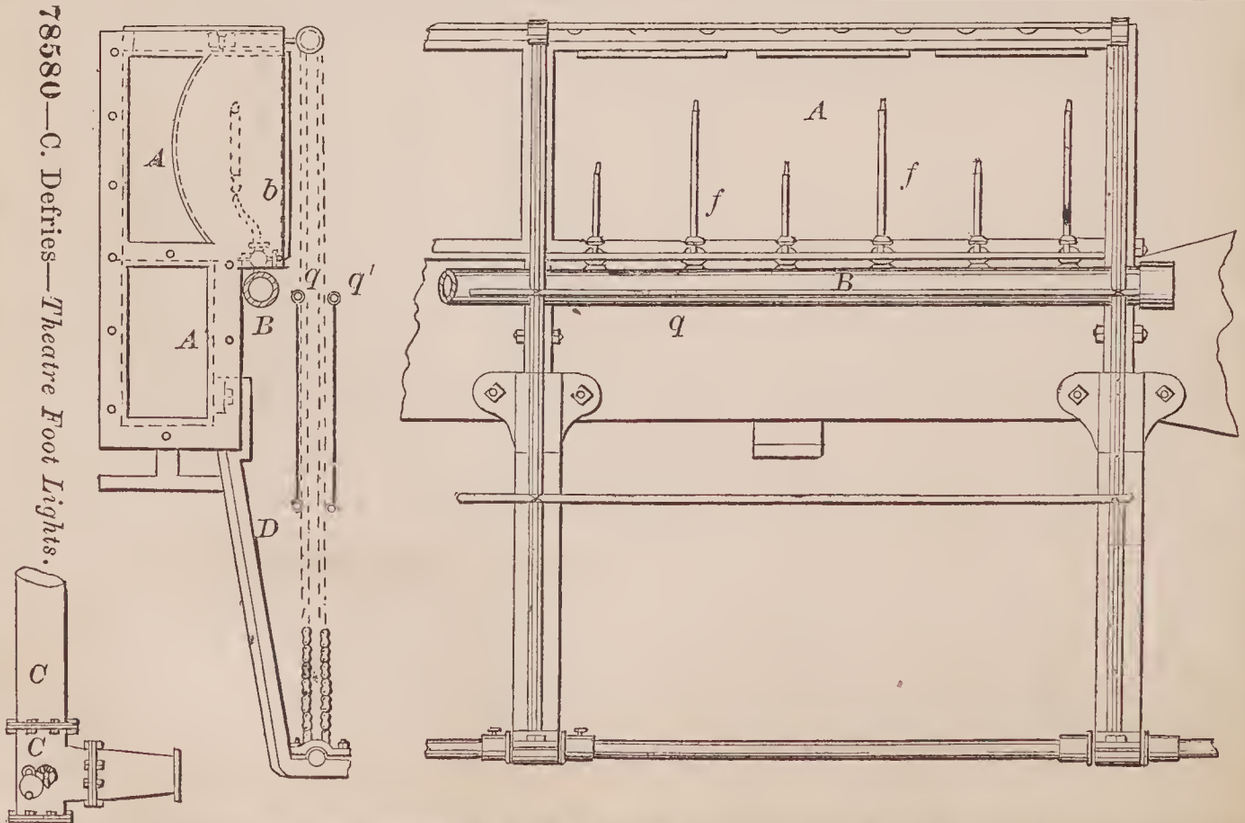
78581—T Dooley—*Toe Calk and Blank.*



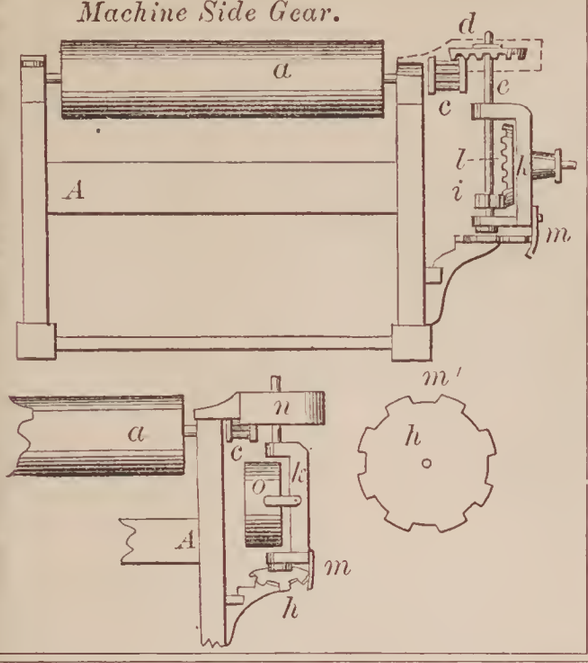
78579—M. M. Copp—*Carriage Thill Coupling.*



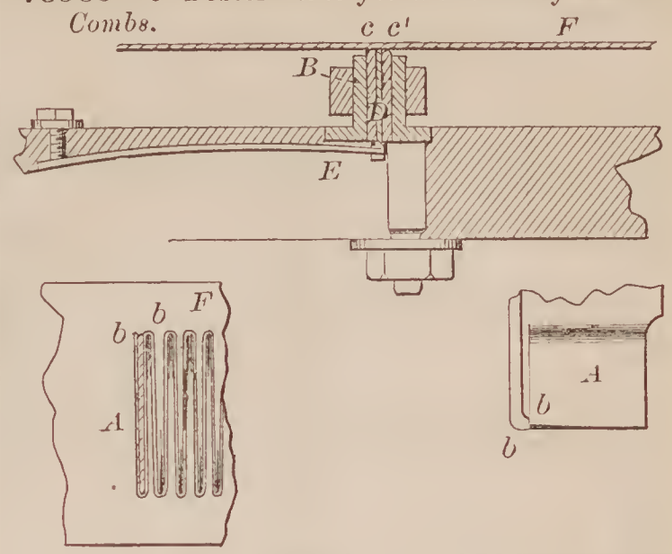
78580—C. Defries—*Theatre Foot Lights.*



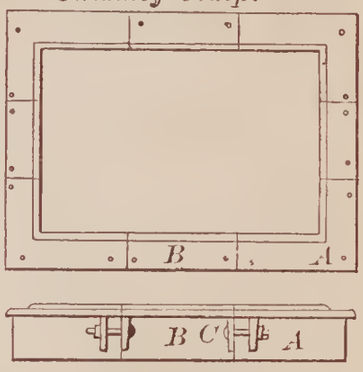
78582—J. Duchesne—*Threshing Machine Side Gear.*



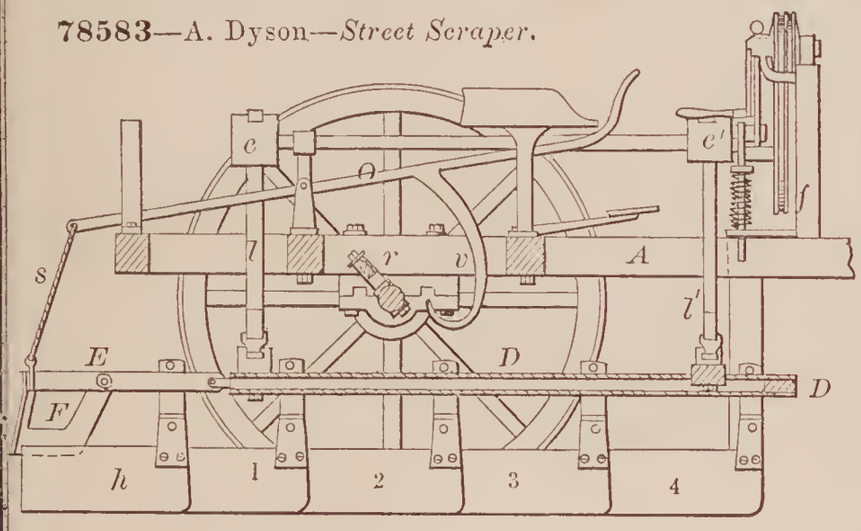
78585—C Foster—*Die for the Teeth of Metallic Combs.*

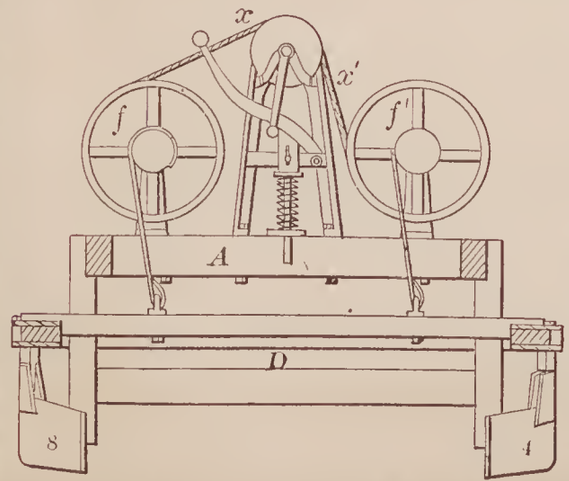


78584—C. F. Espick—*Chimney Clasp.*

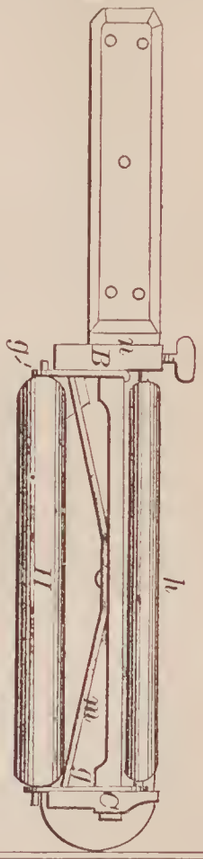


78583—A. Dyson—*Street Scraper.*

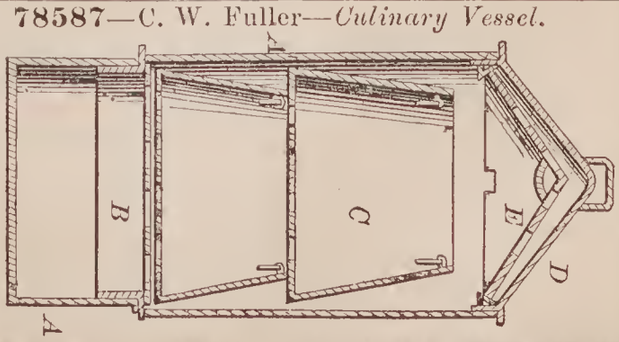




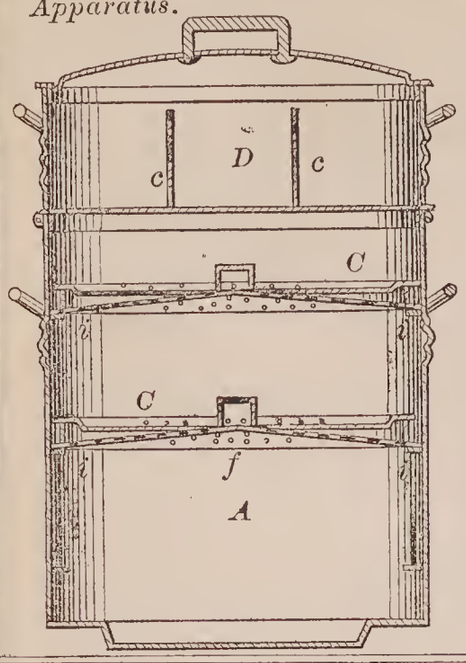
78586—J. Frisch—*Bread Knife.*



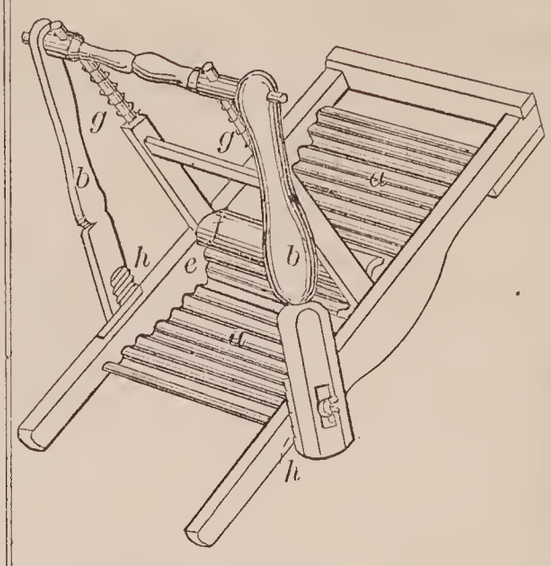
78587—C. W. Fuller—*Culinary Vessel.*



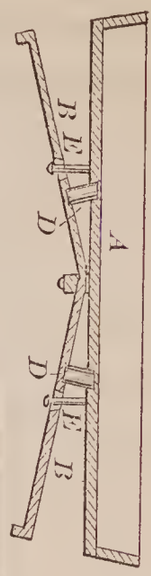
78588—Gale & Avery—*Cooking Apparatus.*



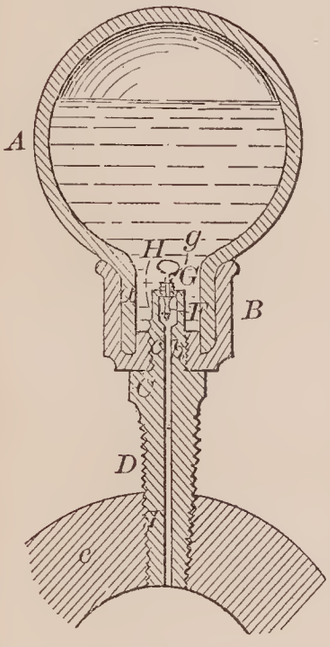
78593—S. V. Hall—*Washing Machine.*



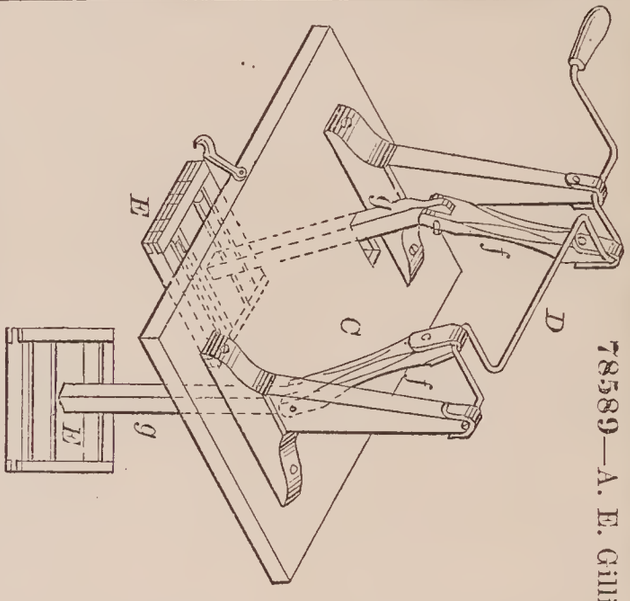
78590—L. Graham—*Wagon Seat.*

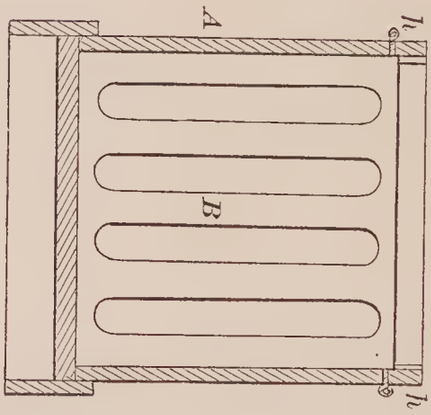


78594—Holland & Cody—*Lubricator.*

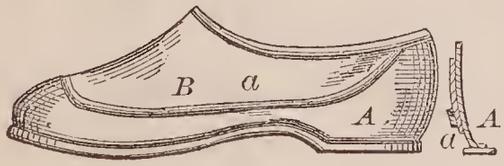


78589—A. E. Gillilan—*Churn*

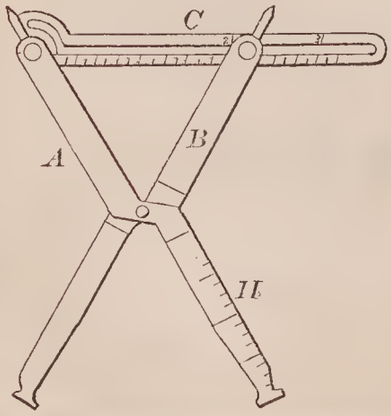




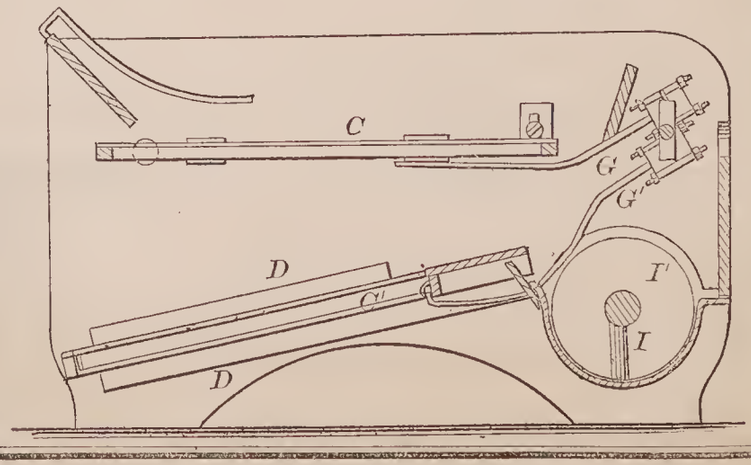
78595—H. L. Hotchkiss—*Overshoe.*



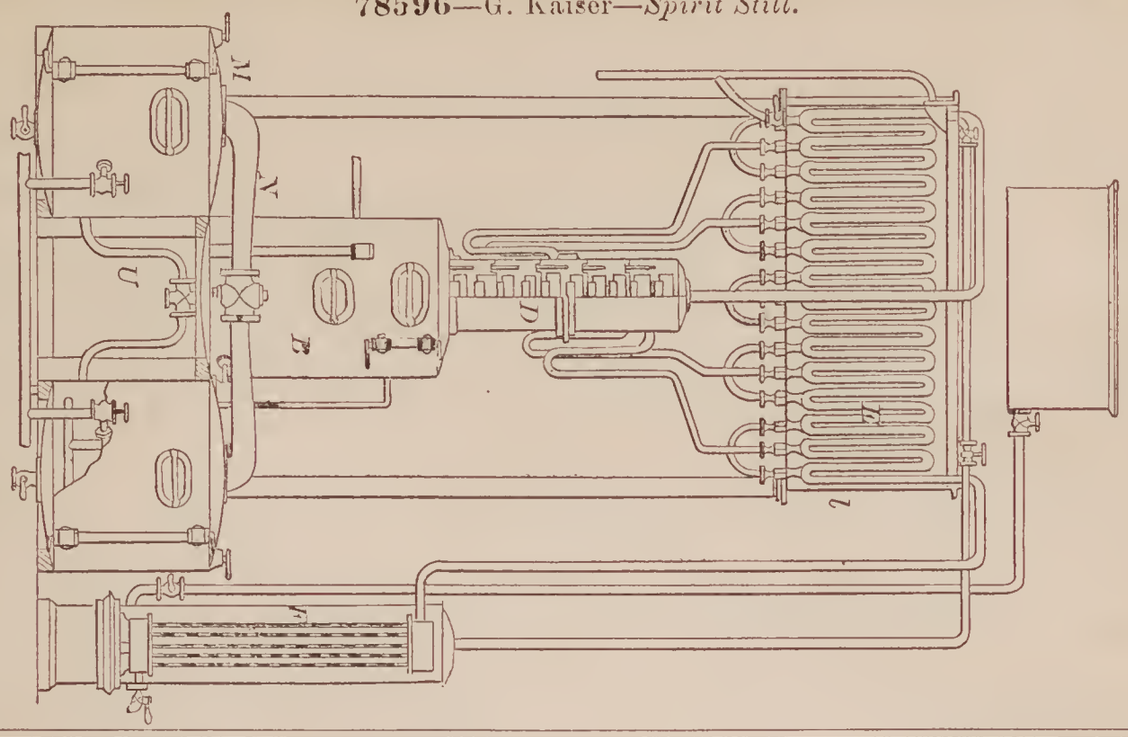
78591—C. W. Guerrant—*Square and Calipers.*



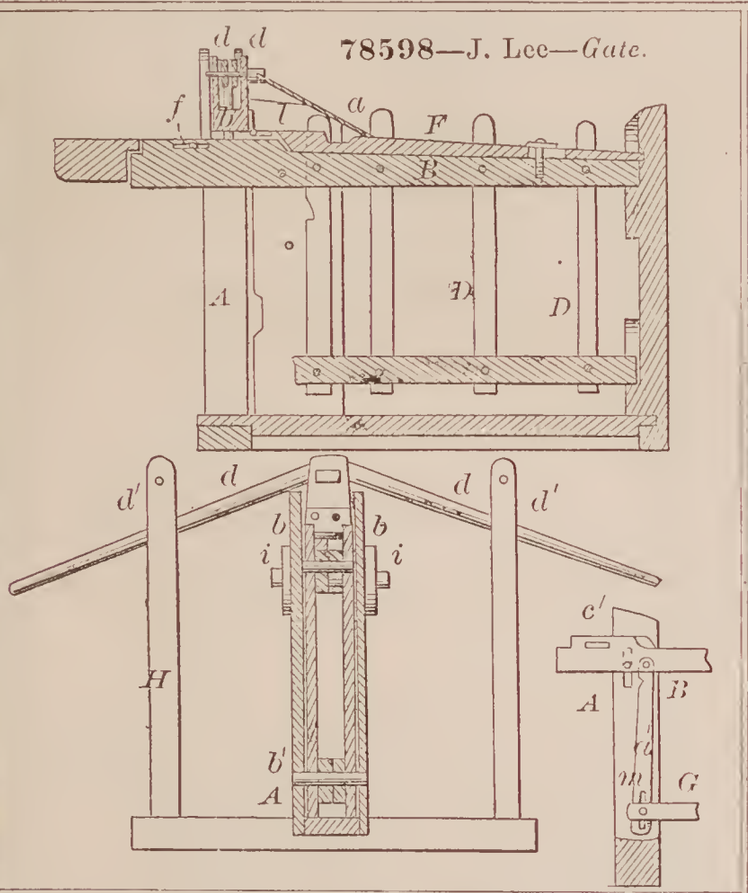
78597—M. Laufenburge—*Shoe for Separators.*



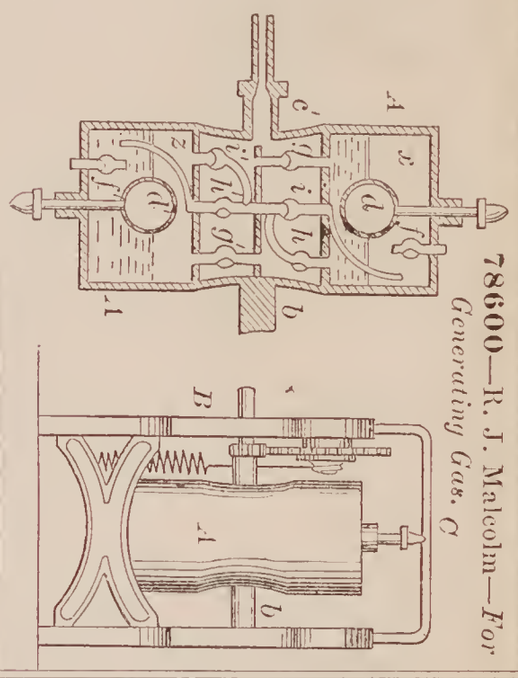
78596—G. Kaiser—*Spirit Still.*



78598—J. Lee—*Gate.*

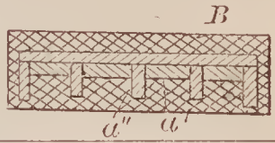


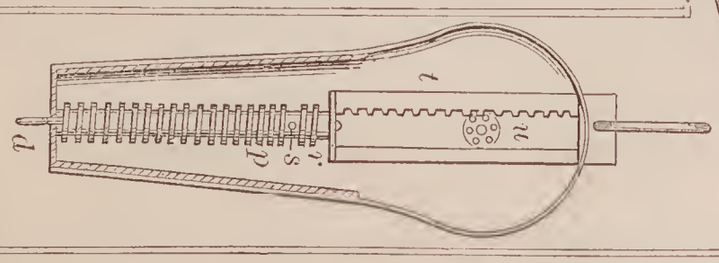
78600—R. J. Malcolm—*For Generating Gas.* C

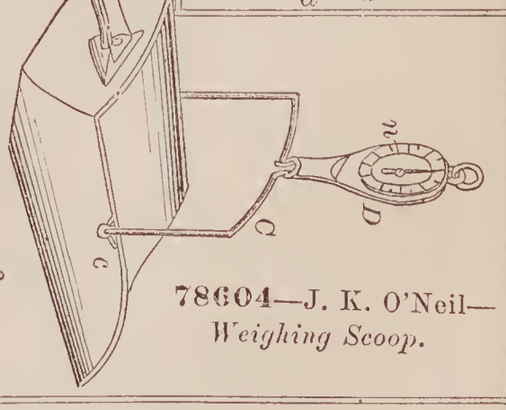


78599—T. Maitland—*Tooth Brush.*

78601—I. Marsh, Jr.—*Tile or Slab for Floors.*

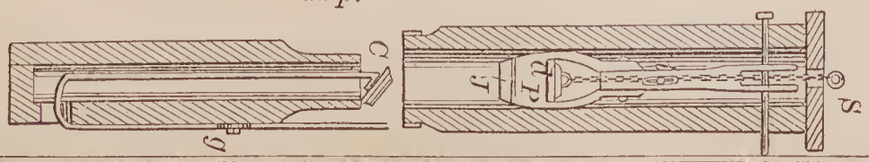




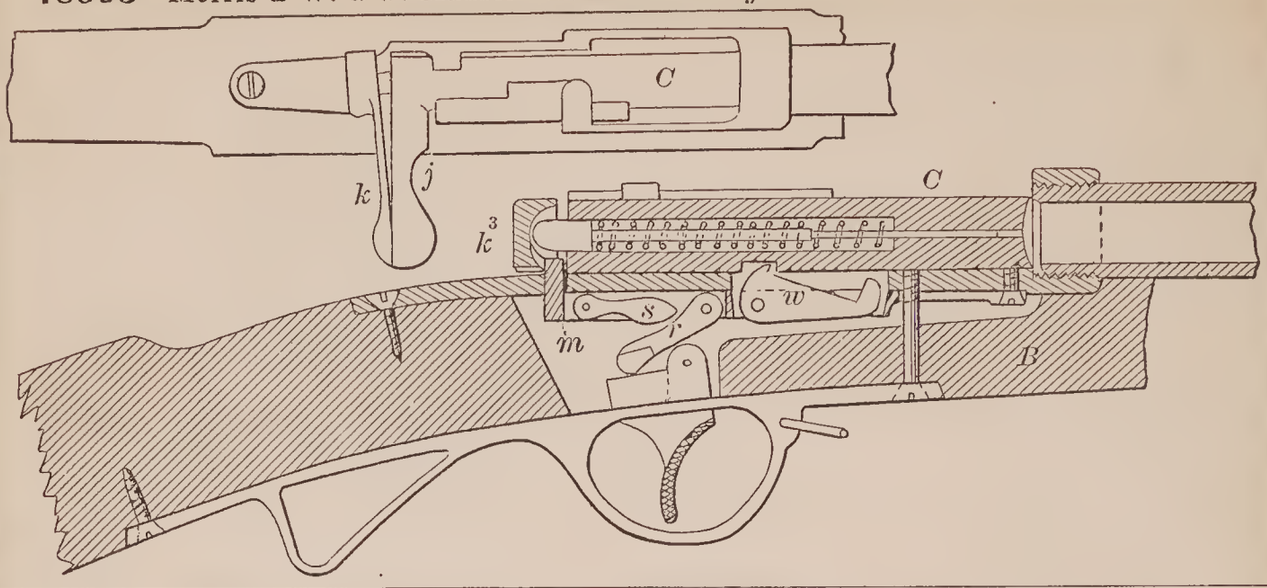


78604—J. K. O'Neil—*Weighing Scoop.*

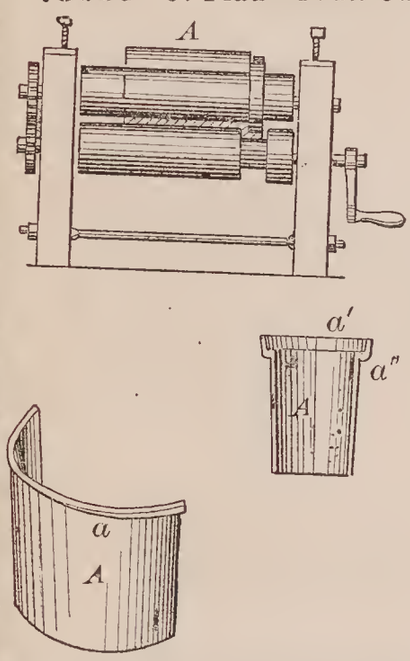
78602—C. S. McMahan—*Pump.*



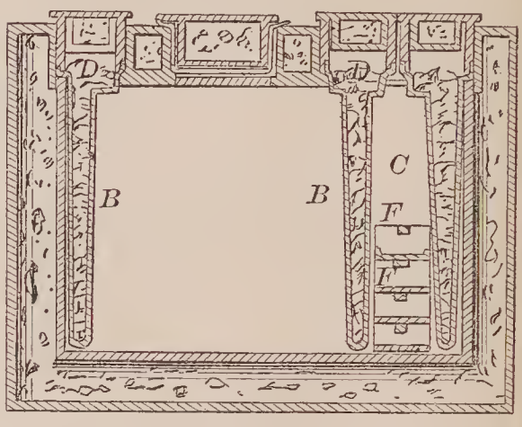
78603—Morris & W. & P. Mauser—*Breech-Loading Fire Arm.*



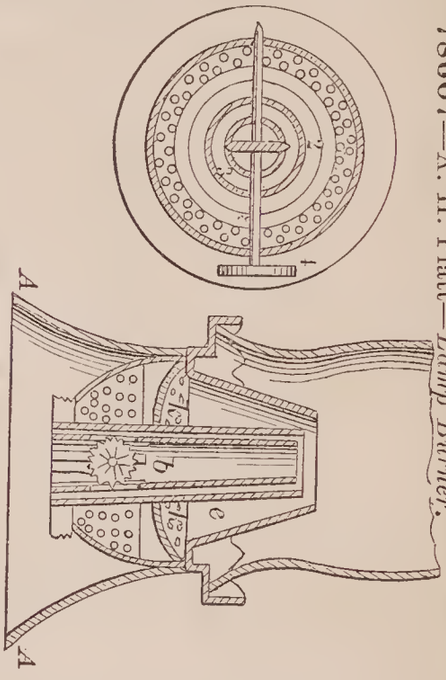
78605—J. Pfau—*Fruit Can Body.*

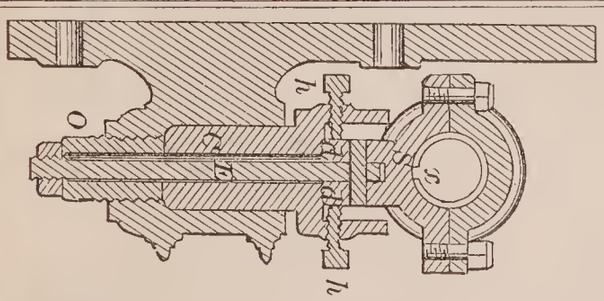


78606—E. Piper—*Refrigerator.*



78607—A. H. Platt—*Lamp Burner.*

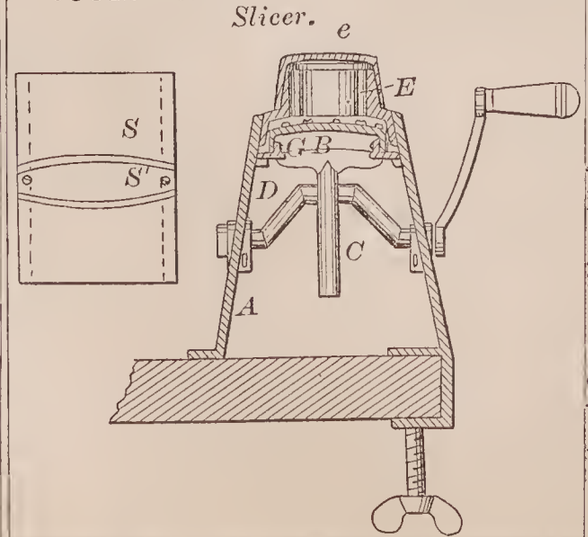




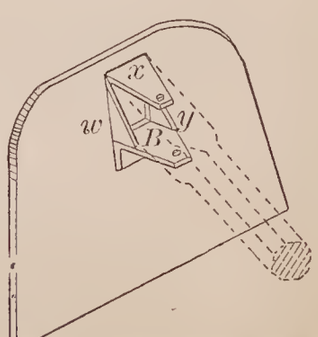
78608—J. Richards—*Hanger for Shafting.*

78609—B. Robinson—*Carriage Thill.*

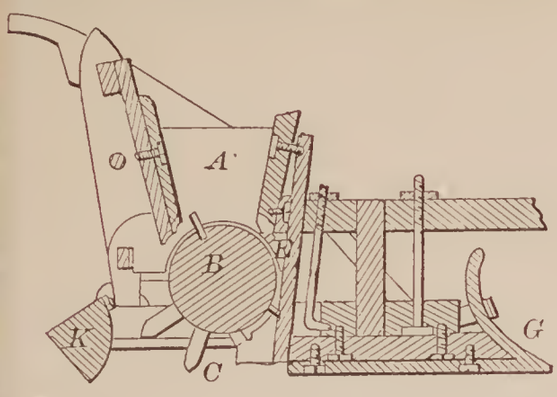
78612—Saladee & Hall—*Grater and Slicer.*



78611—Saladee & Hall—*Hoe.*



78614—B. Smith—*Cotton Seed Planter.*



78615—Spear & Hull—*Pruning Shears and Knife.*

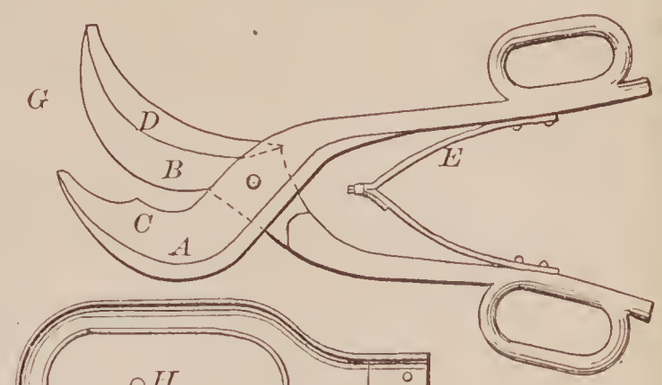
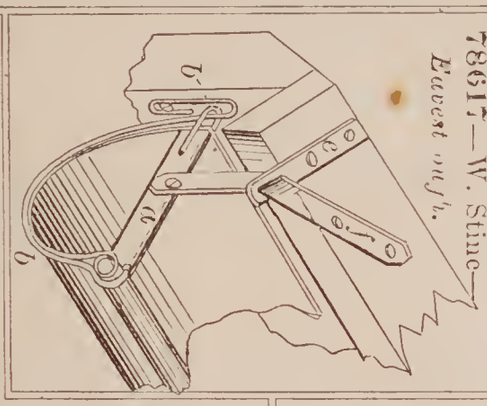


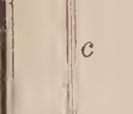
Fig. 3

Fig. 4

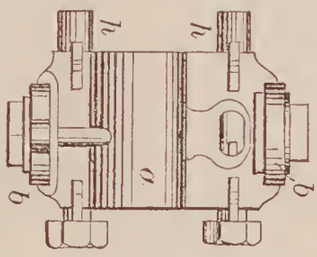
78617—W. Stine—*Eavestrough.*

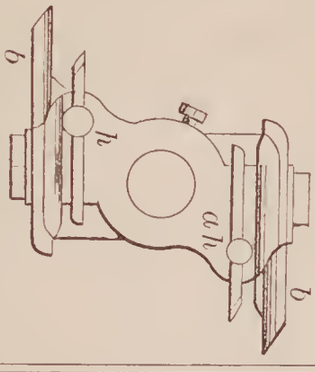


78618—D. J. Stone—*Mop Wringer.*

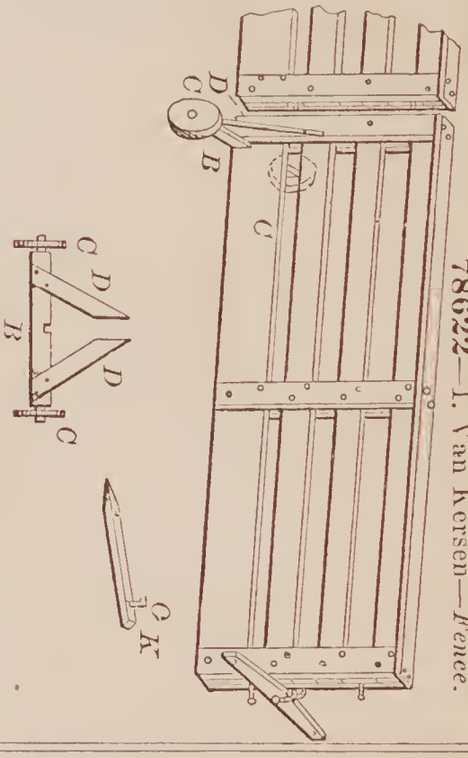


78616—A. T. Stearns—*Planing Machine.*

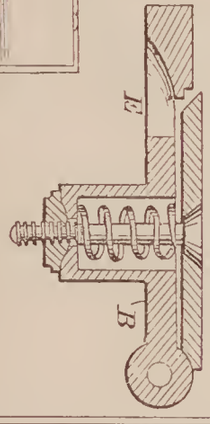




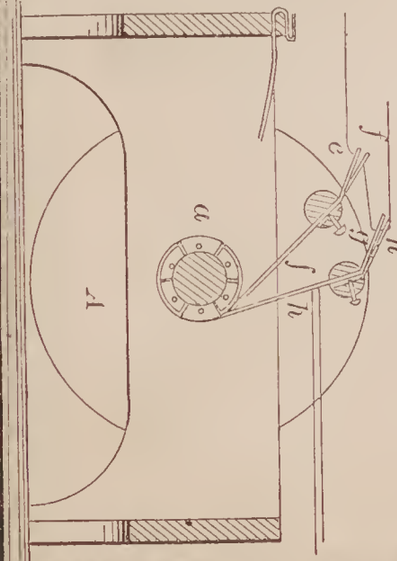
78622—I. Van Kersen—*Fence.*

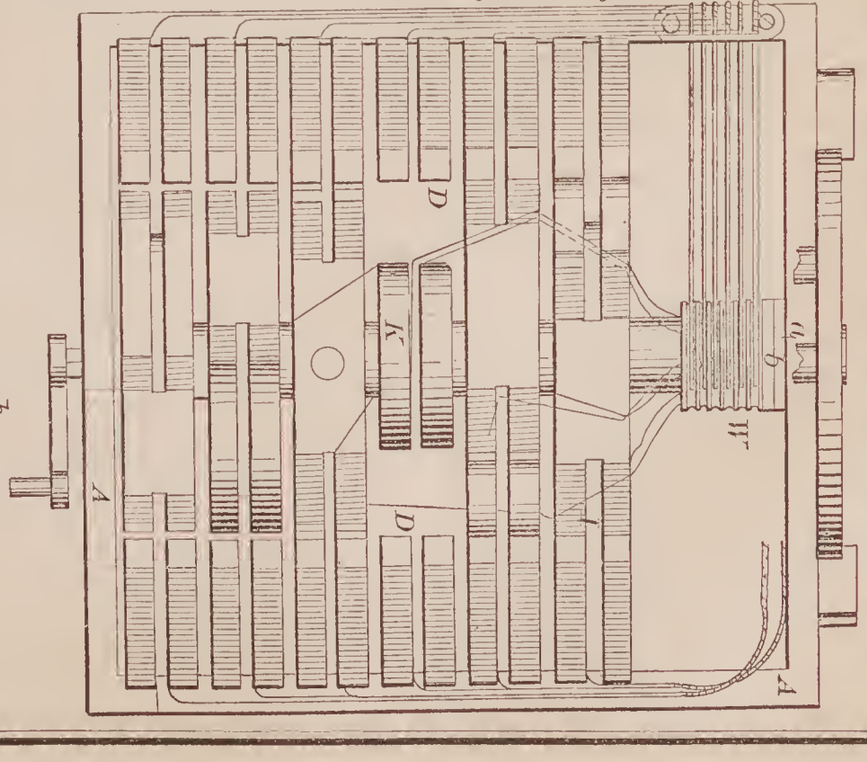


78620—S. Swan—*Carpenters' Bench Hook.*

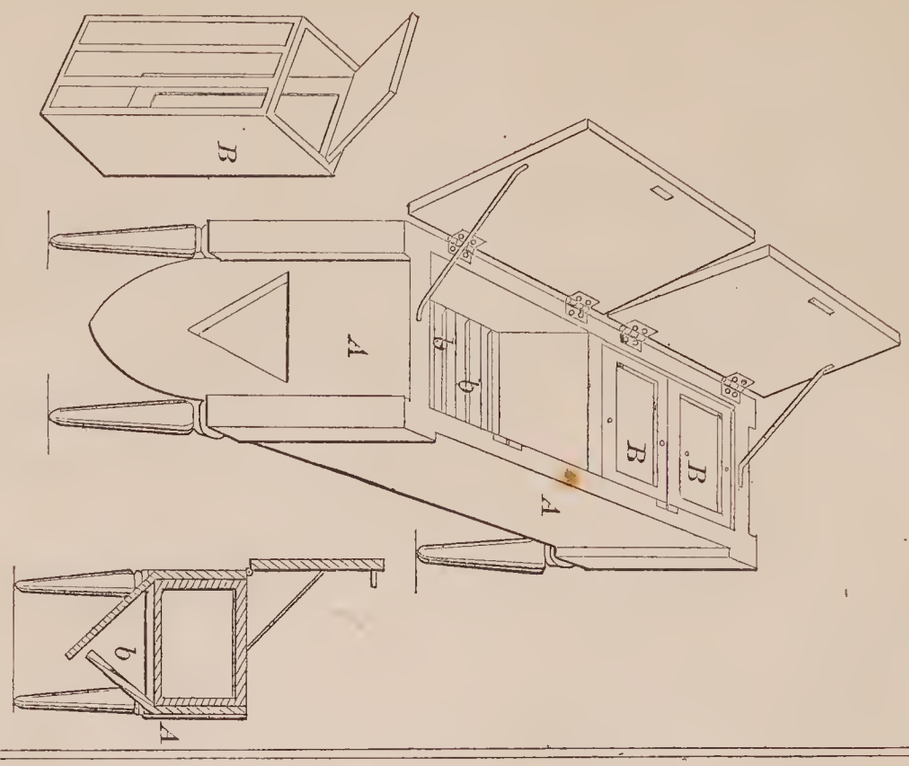


78619—L. C. Stuart—*Electro-Magnetic Engine.*

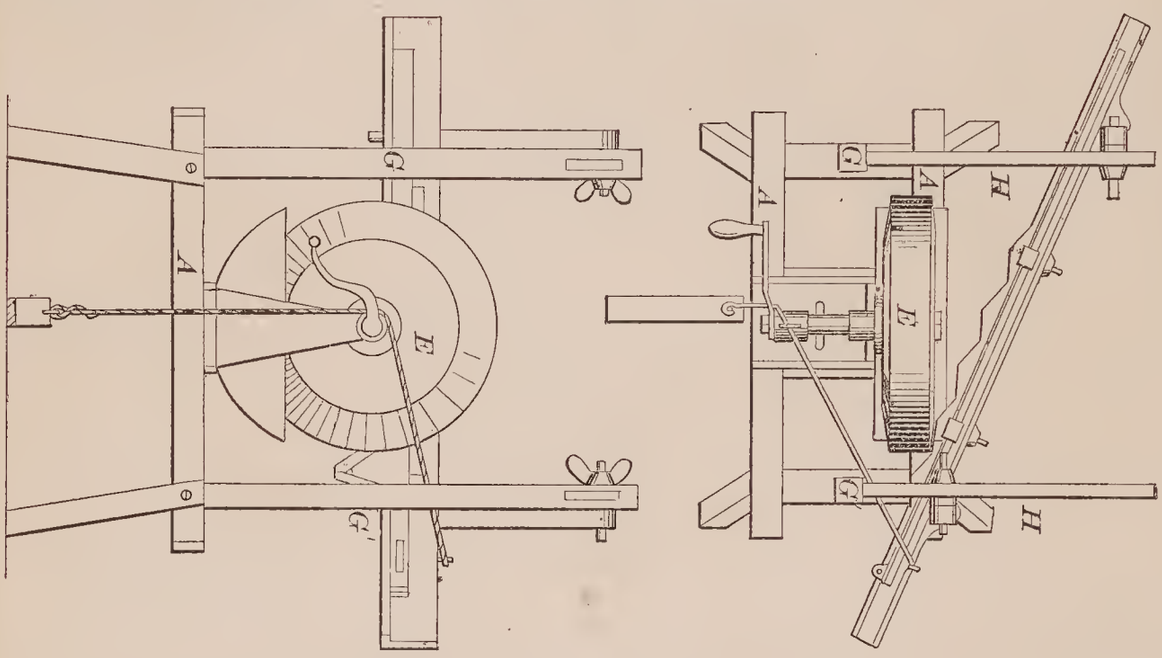




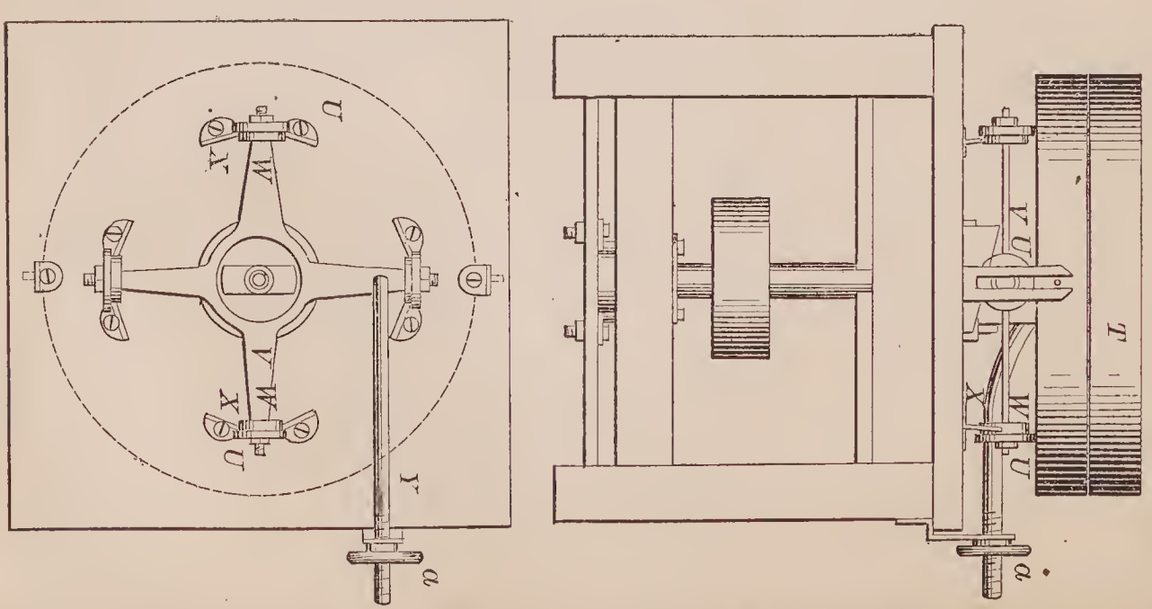
78621—H. Fuller—*Beehive.*



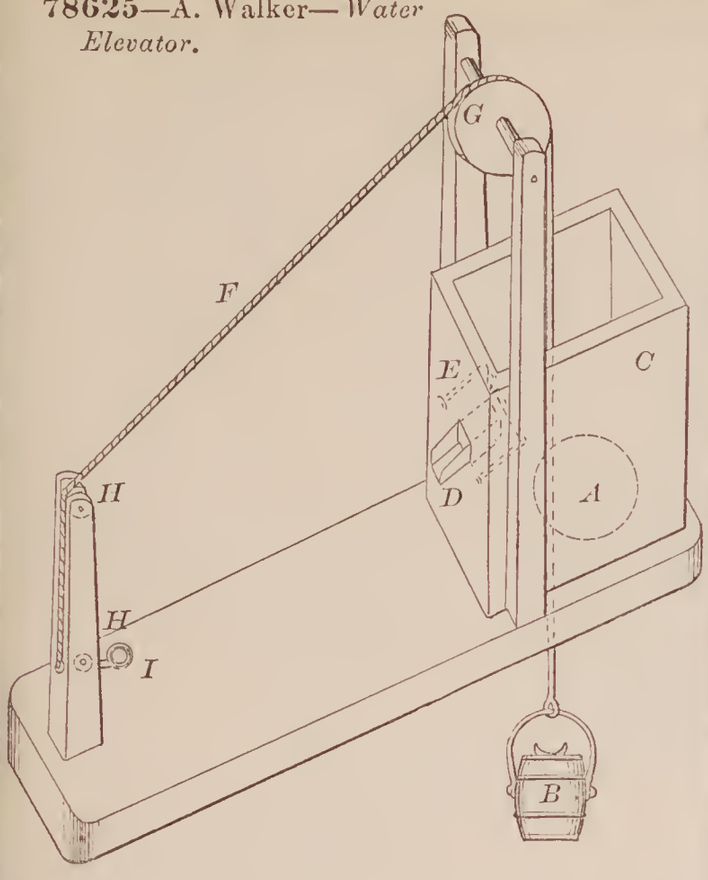
78623—S. D. Wackman—*For Grinding Mowing Machine Cutters.*



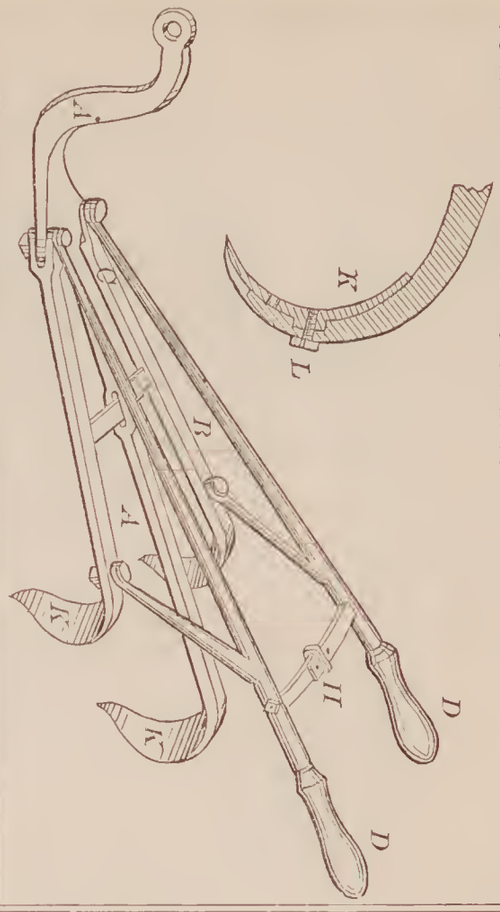
78624—A. H. Wagner—*Grinding Mill.*



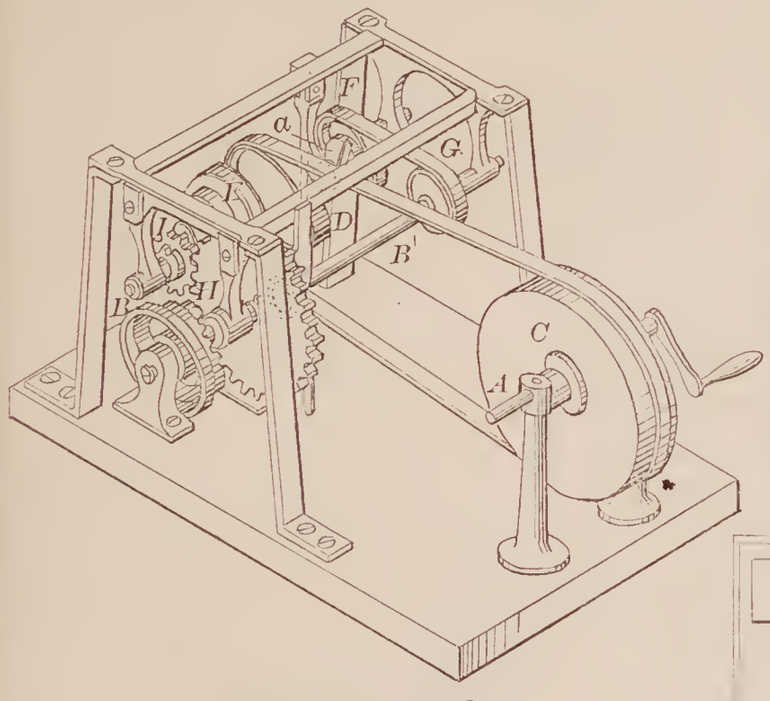
78625—A. Walker—*Water Elevator.*

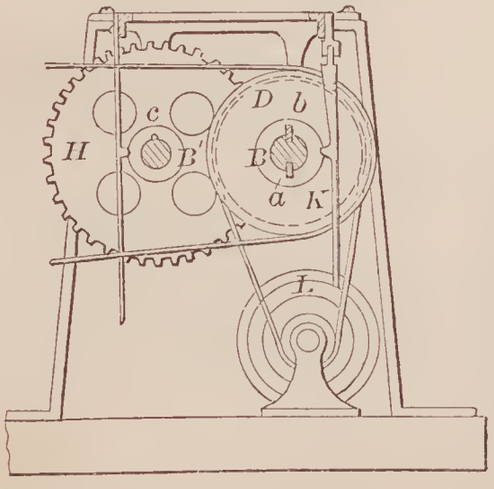


78626—W. Walton—*Cultivator.*

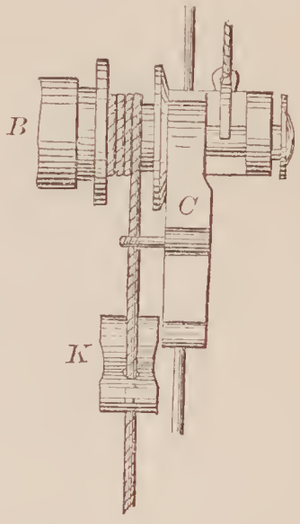


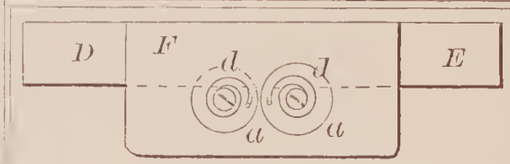
78627—H. C. Weihe—*Counter Shafting.*



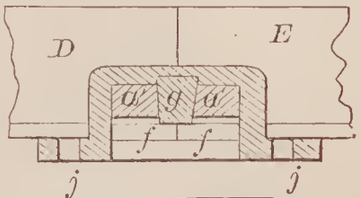


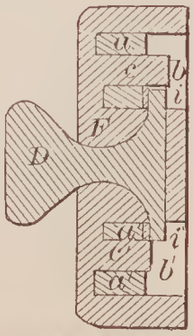
78628—White & Meeker—*Curtain Fixture.*



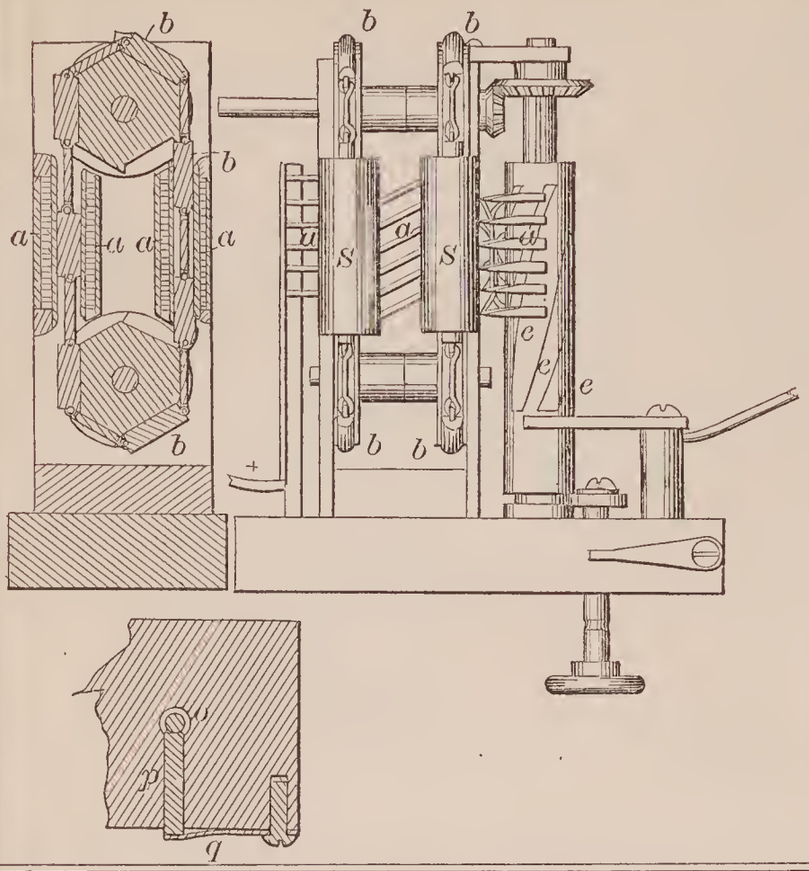


78630—W. Wickersham—*Railway Rail Chair.*

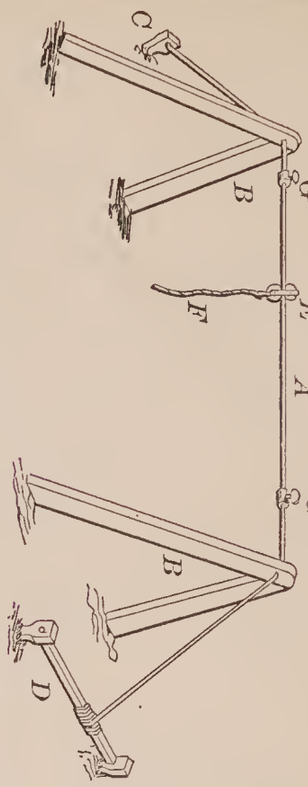




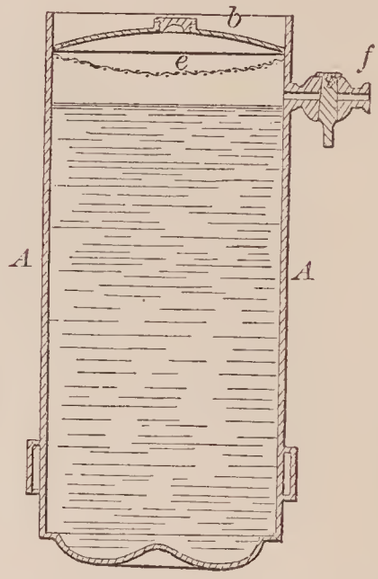
78629—W. Wickersham—*Electro-Magnetic Engine.*



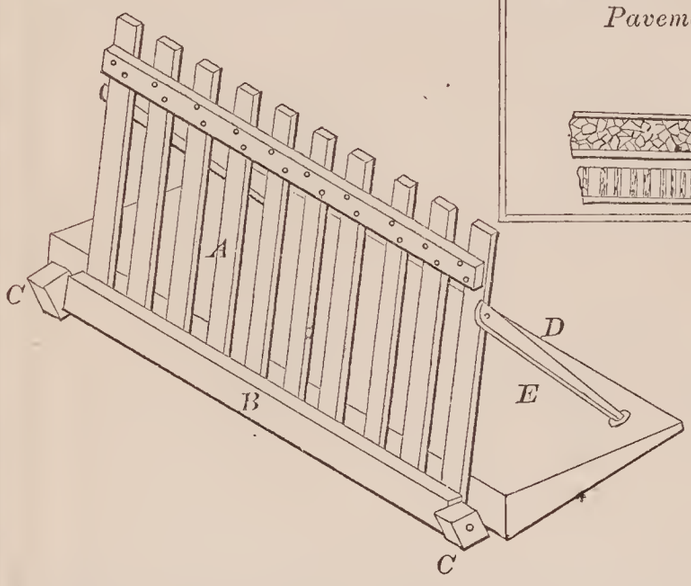
78631—J. Wilkinson—*Securing Cattle.*



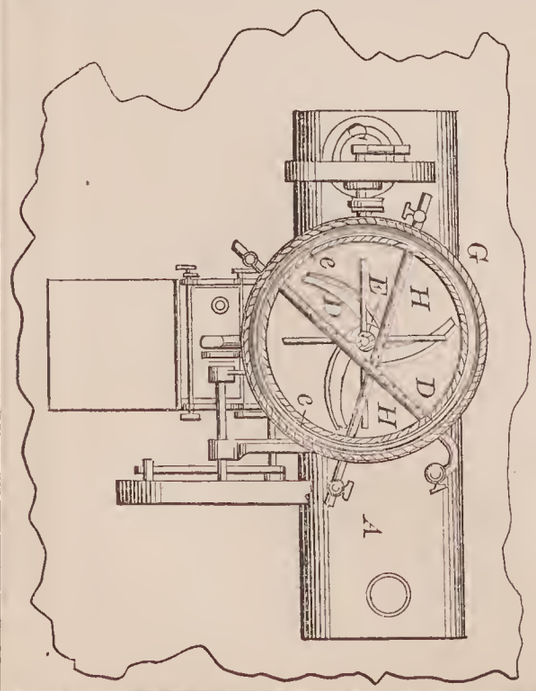
78636—W. Mullally—*For Extinguishing Fires.*



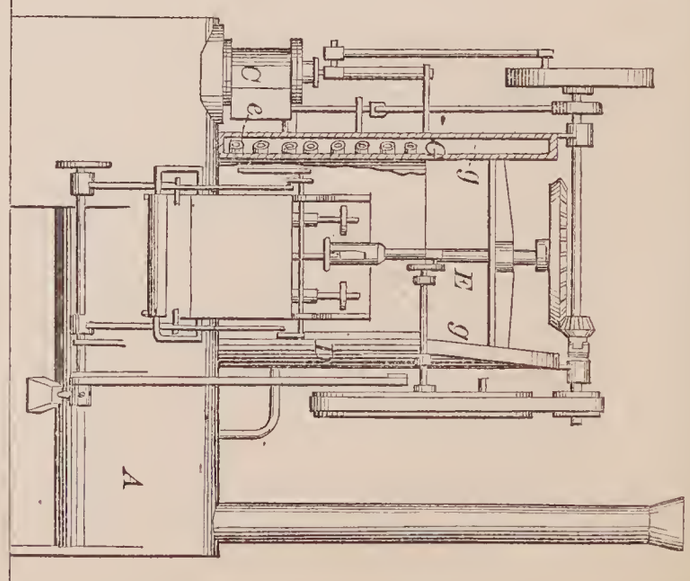
78633—V. Wood—*Flood Fence.*



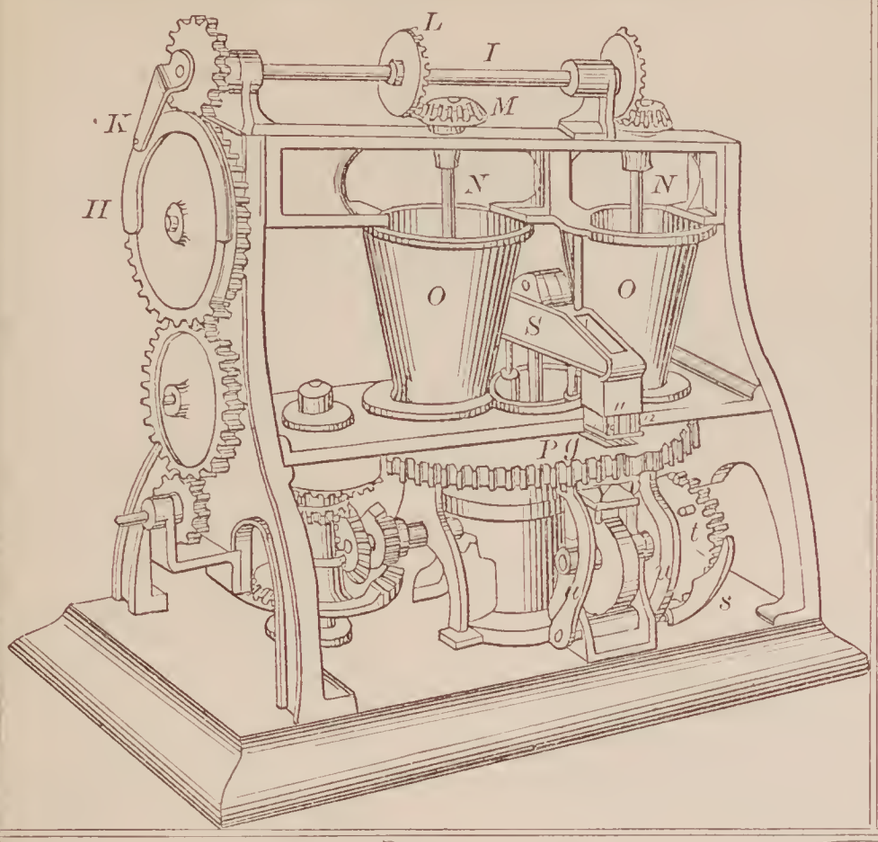
78635—A. Wyckoff—*Pavement.*



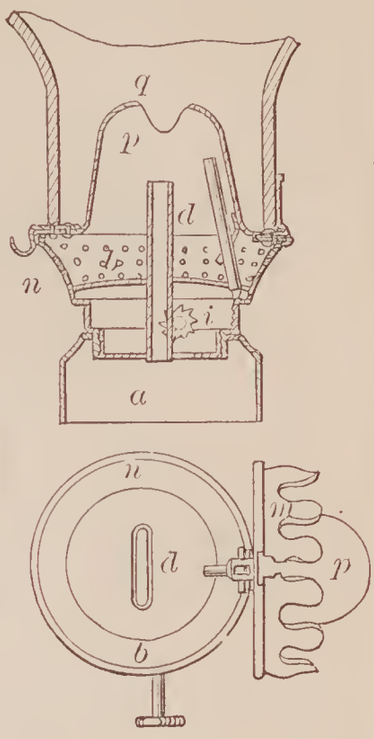
78632—C. A. Winn—*Brick Machine.*

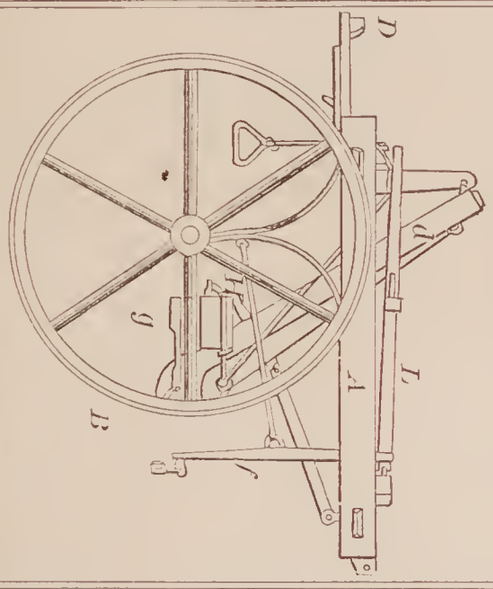


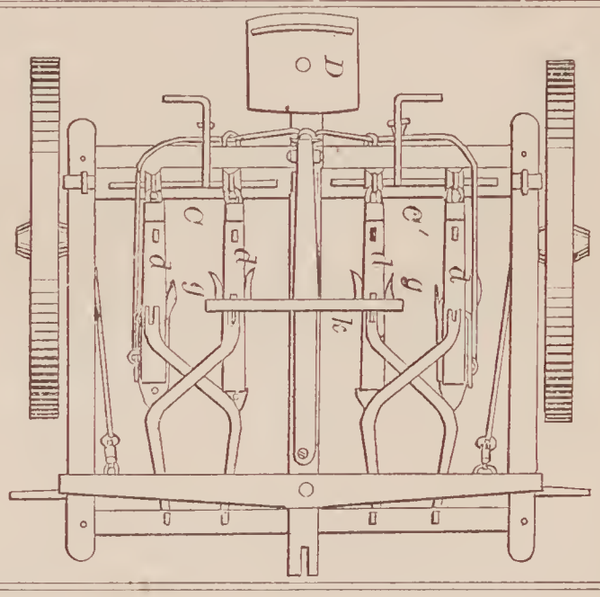
78634—Wrightington & Rider—*Brick Machine.*



78637—L. J. Atwood—*Lamp Burner.*

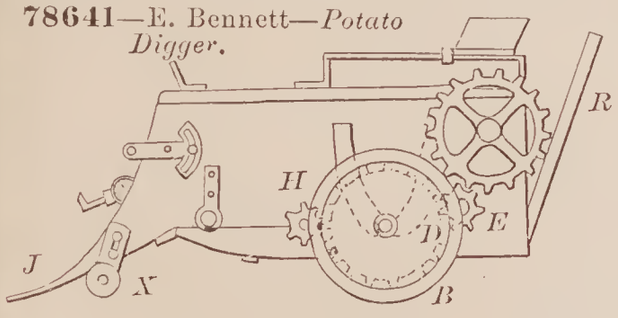


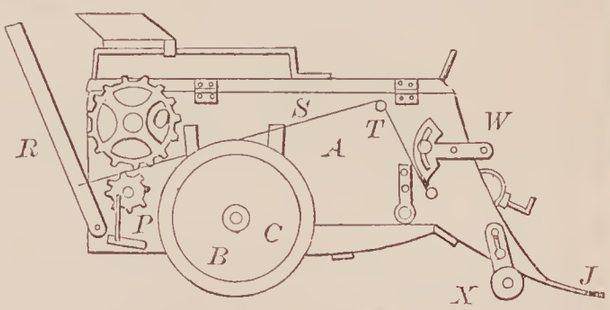


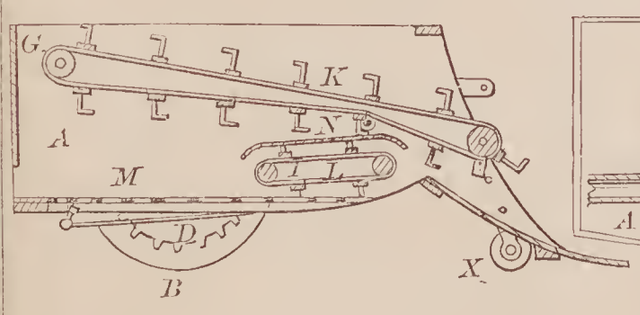


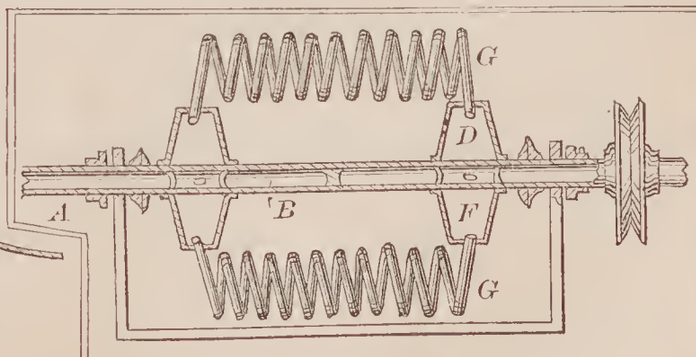
78638—G. C. Avery—*Plow and Planter.*

78641—E. Bennett—*Potato Digger.*



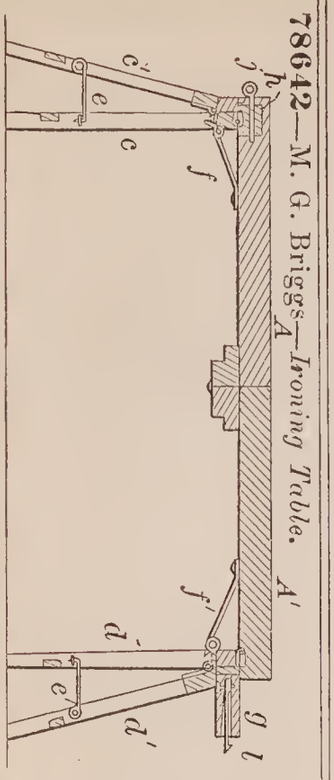




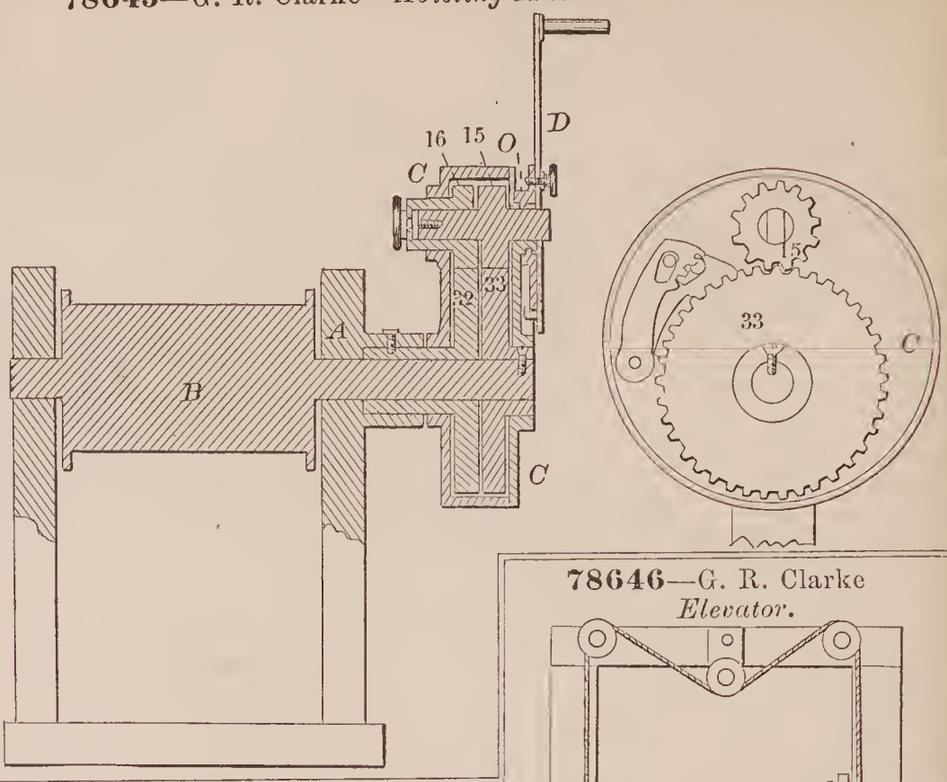


78639—P. J. Badoux—*Evaporator.*

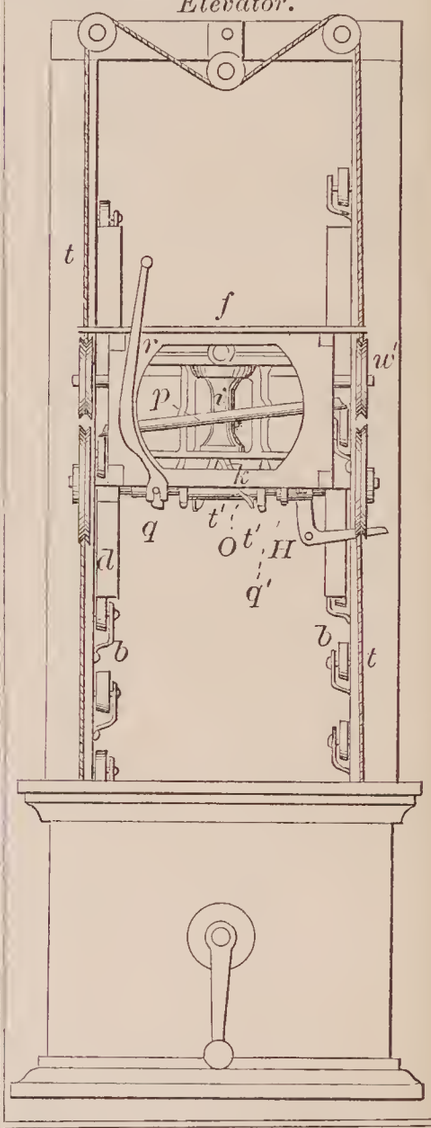
78642—M. G. Briggs—*Ironing Table.*



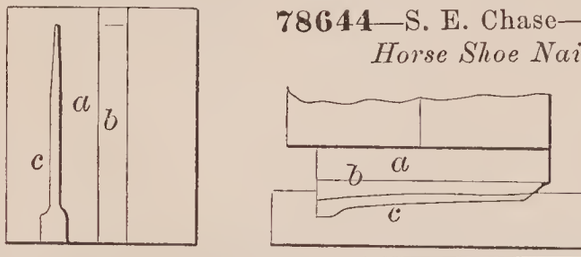
78645—G. R. Clarke—*Hoisting Machine.*



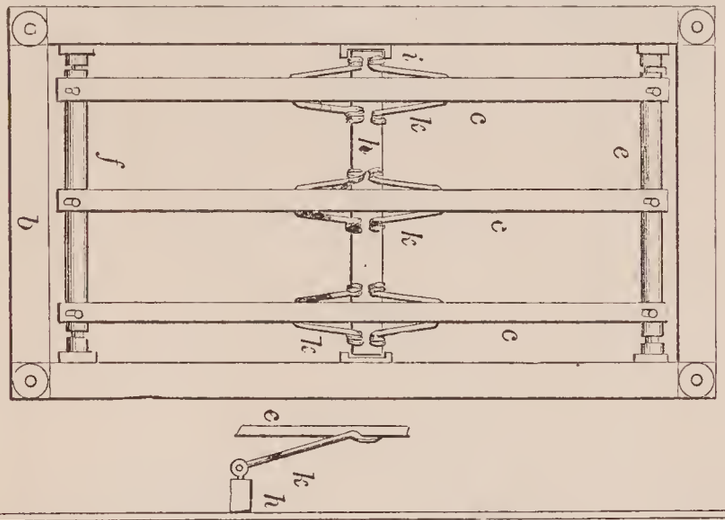
78646—G. R. Clarke *Elevator.*



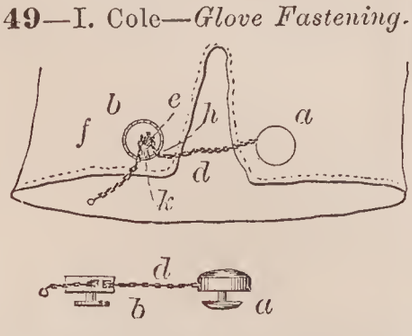
78644—S. E. Chase—*Making Horse Shoe Nails.*



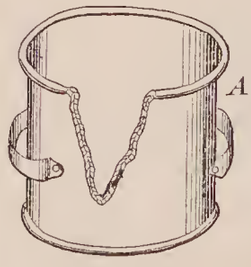
78647—J. C. Climo—*Bedstead.*



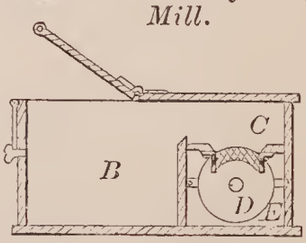
78649—I. Cole—*Glove Fastening.*



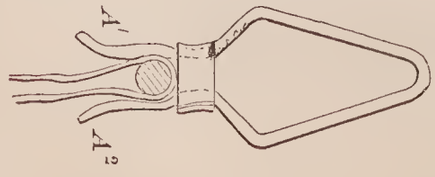
78643—L. Chapin—*Cheese Hoop.*



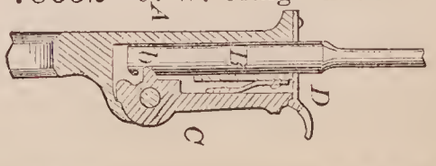
78648—I. F. Colby—*Coffee Mill.*



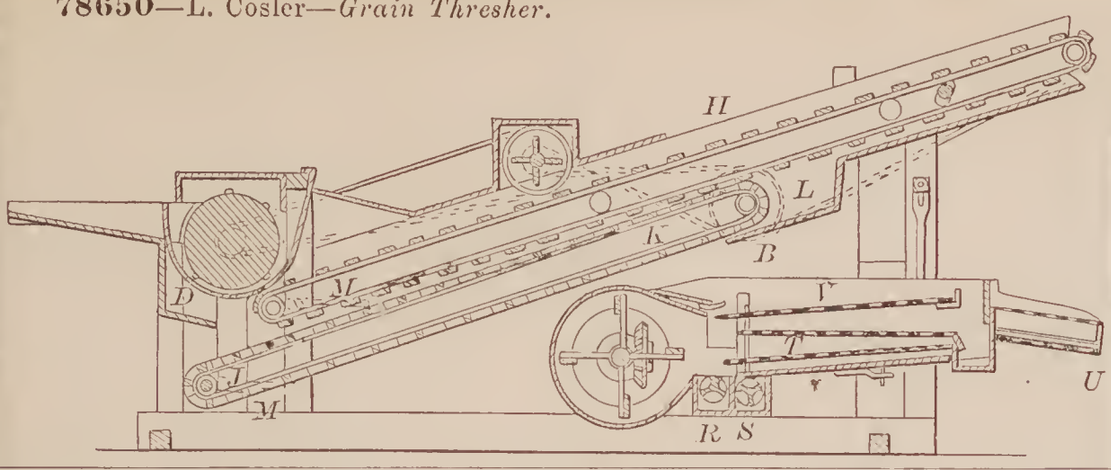
78651—J. O. Couch—*Clothes Pin.*



78652—J. W. Craig—*Bit Brace.*

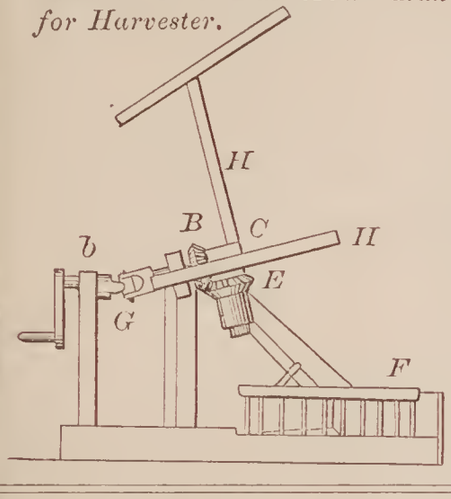


78650—L. Cosler—*Grain Thresher.*

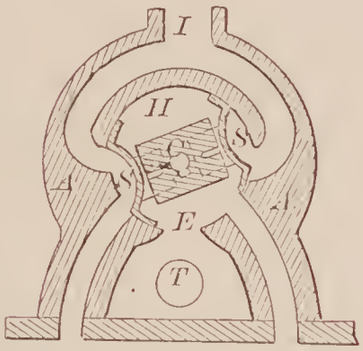


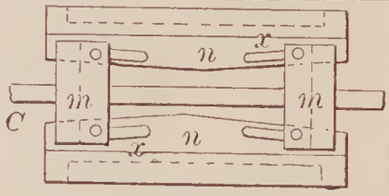
78653—P. Donoghue—*Attaching Handles to Cross Cut Saws.*

78654—J. C. Durborow—*Rake for Harvester.*

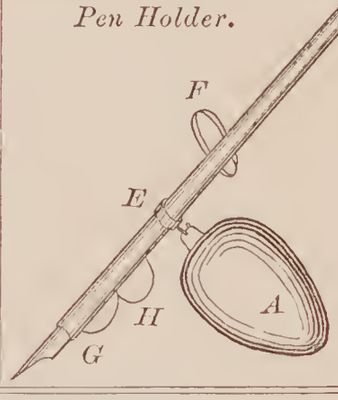


78656—Everitt & Cook—*Oscillating Valve.*

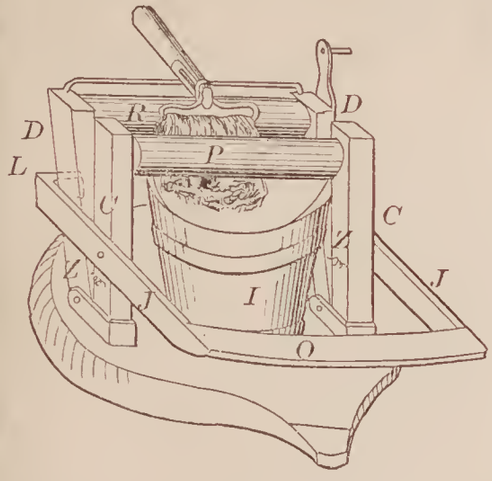


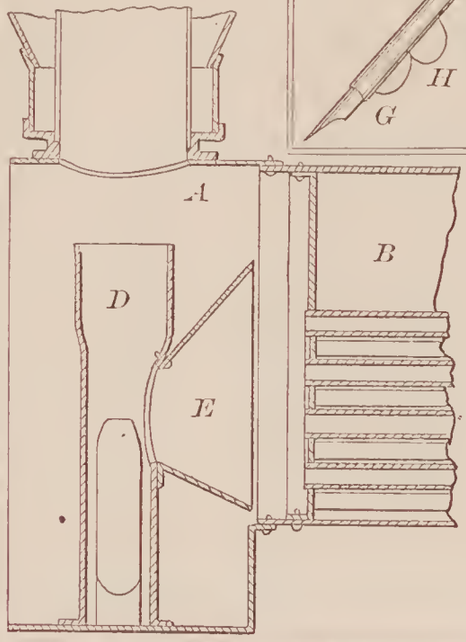


78655—H. G. Eastman—*Pen Holder.*



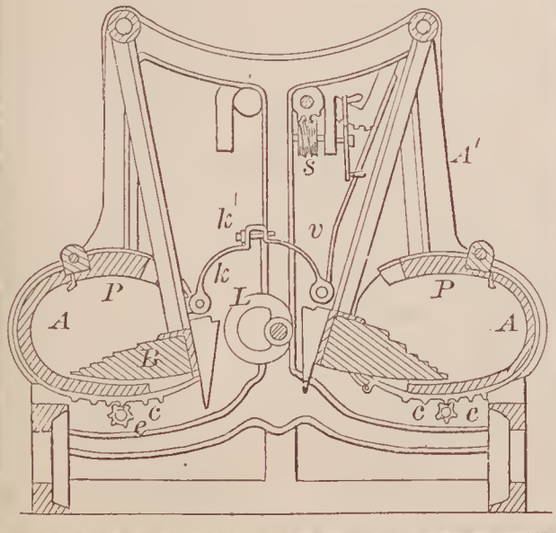
78657—J. Filkins—*Mop Wringer.*

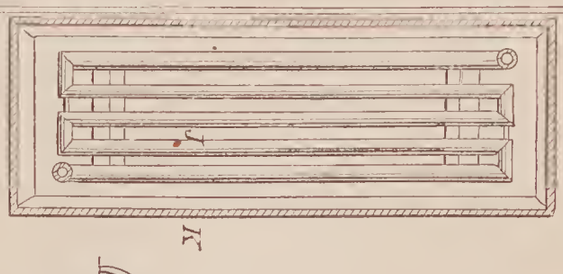


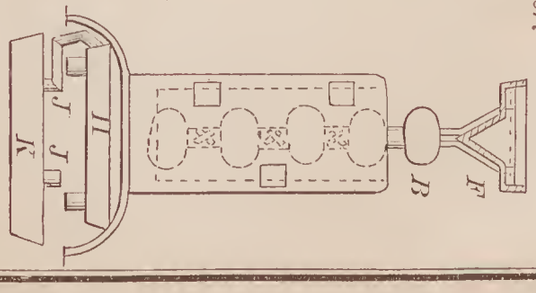


78865—W. G. Freeman—*Petticoat Pipe for Locomotives.*

78660—E. Gessner—*Fulling Mill.*

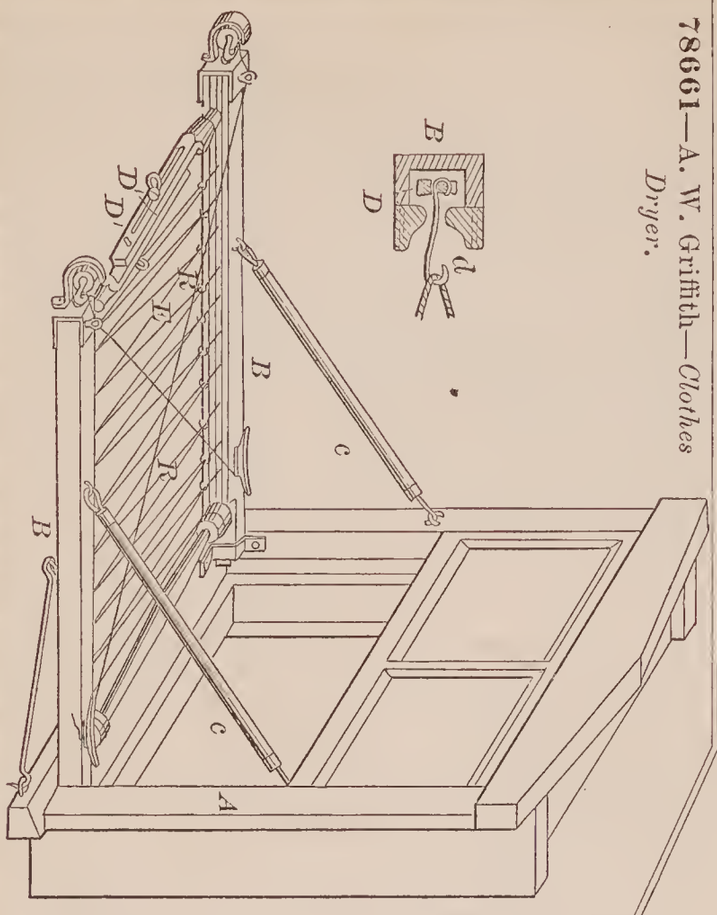




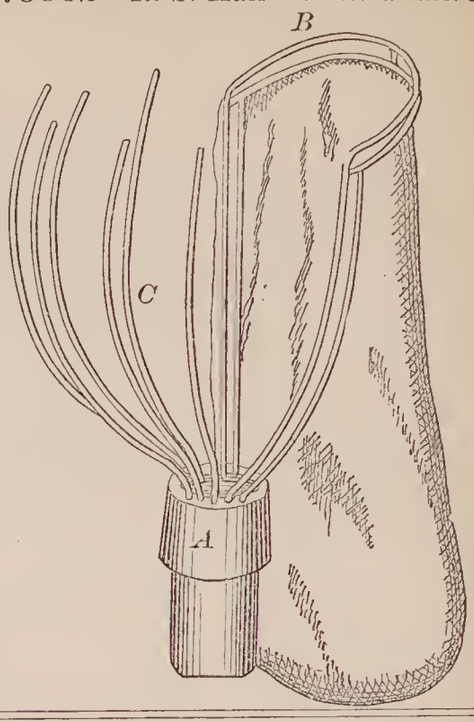


78659—Fuchs & Luigart—*Beer Cooler.*

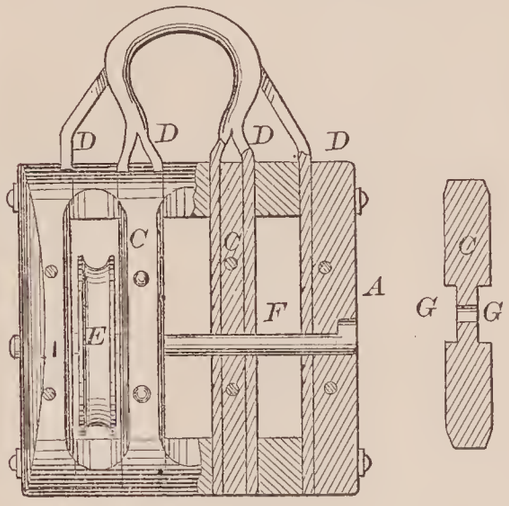
78661—A. W. Griffith—*Clothes Dryer.*



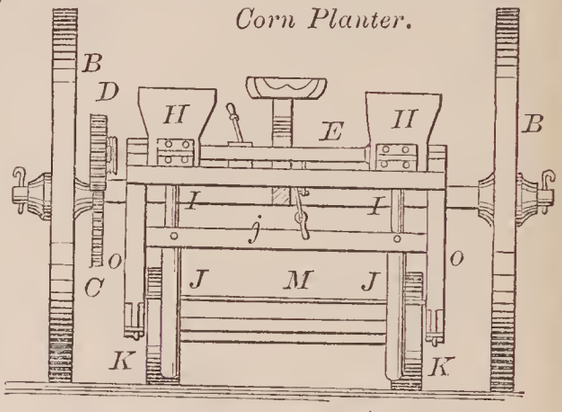
78662—R. S. Hall—*Fruit Gatherer.*

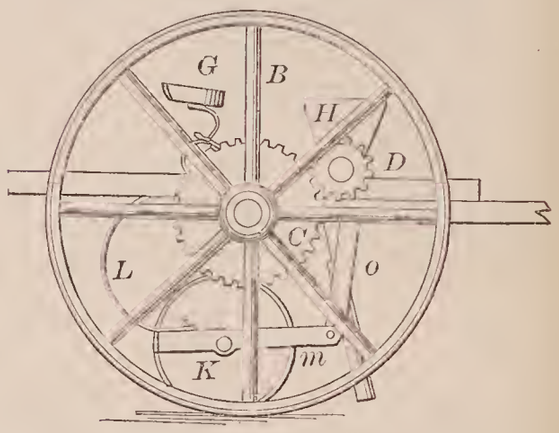


78663—J. F. Harcourt—*Tackle Block.*

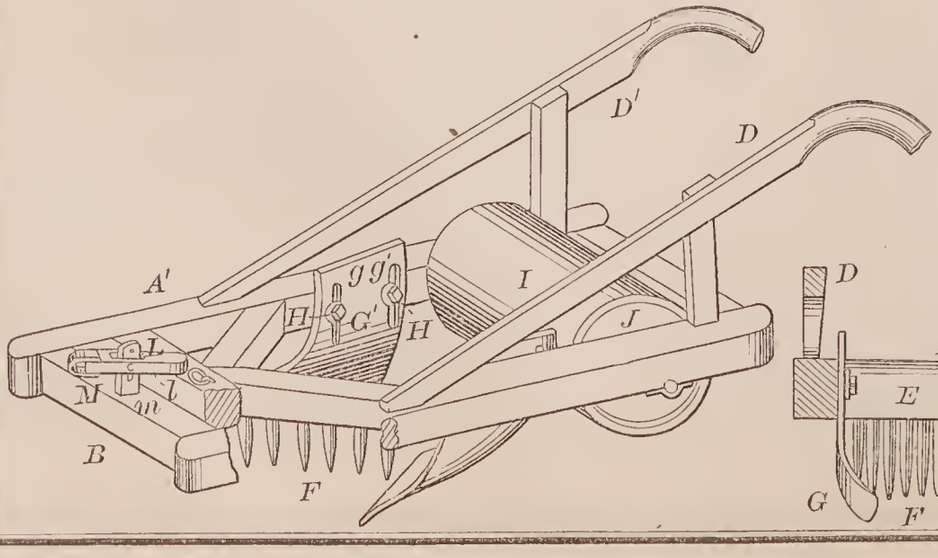


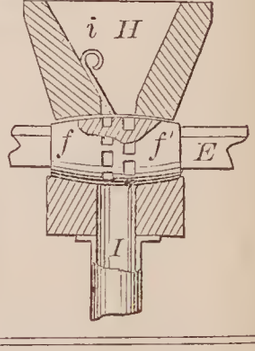
78664—W. N & J. J. Harrison—*Corn Planter.*

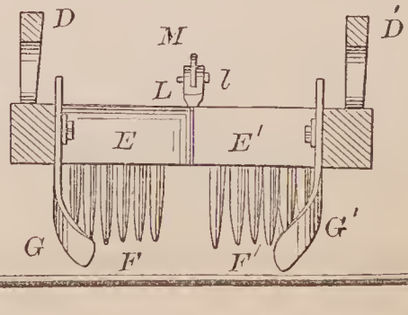




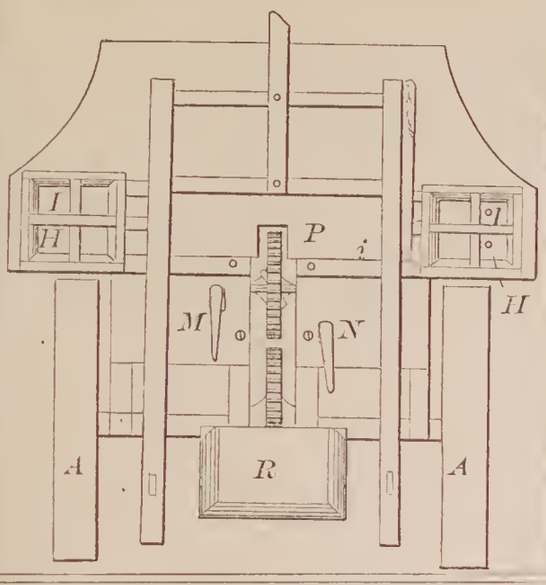
78665—J. D. Haynie—*Corn Coverer.*



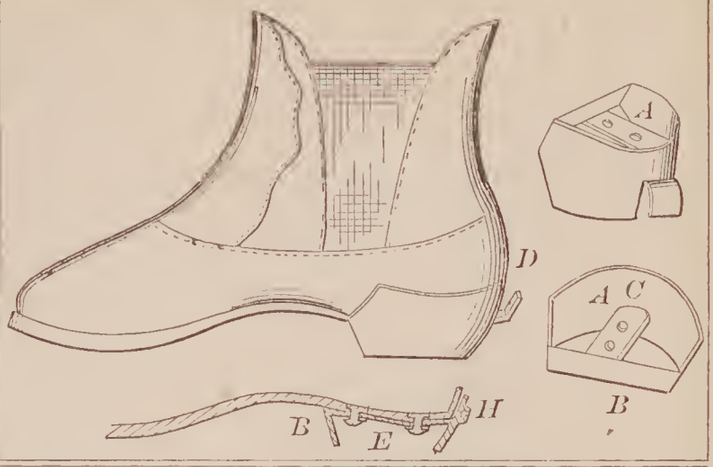




78666—A. Hays—*Seed Planter.*

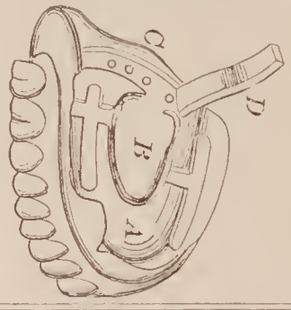


78667—R. Herr—*Boot Heel.*

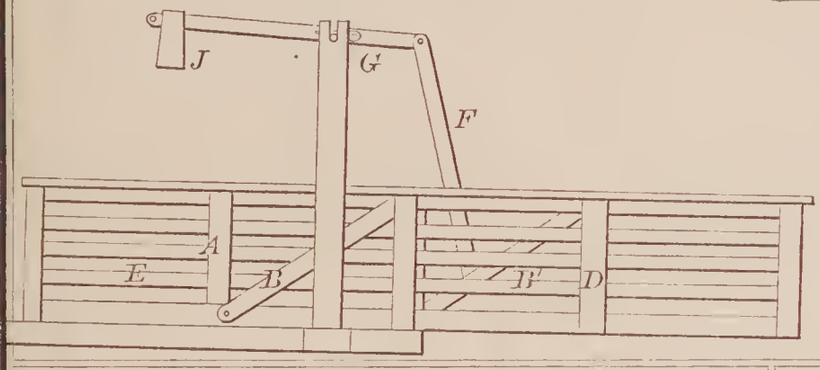


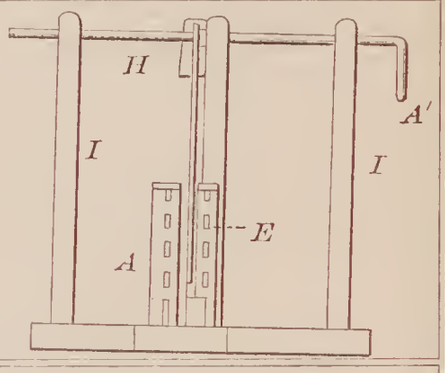
78668—Huot & Baudouin—*Hat.*

78669—D. S. Hutchison—*Plate for Artificial Teeth.*

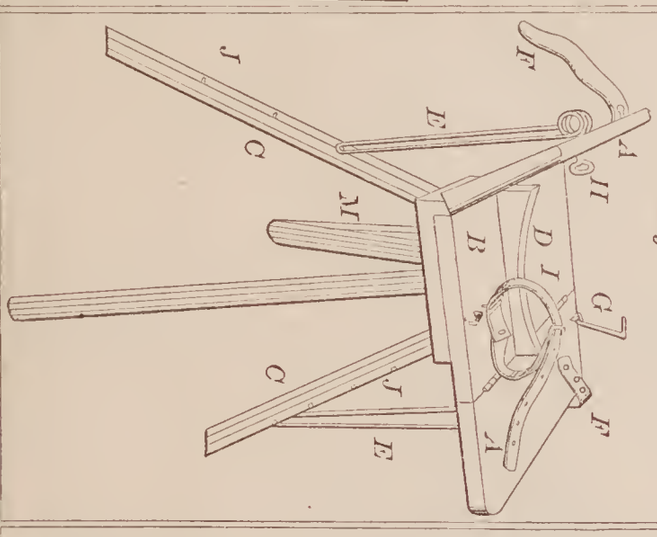


78670—T. W. Johnson—*Farm Gate.*

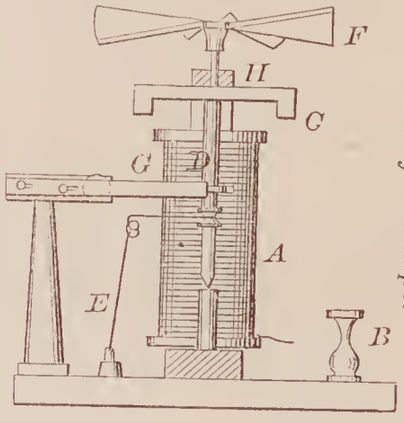




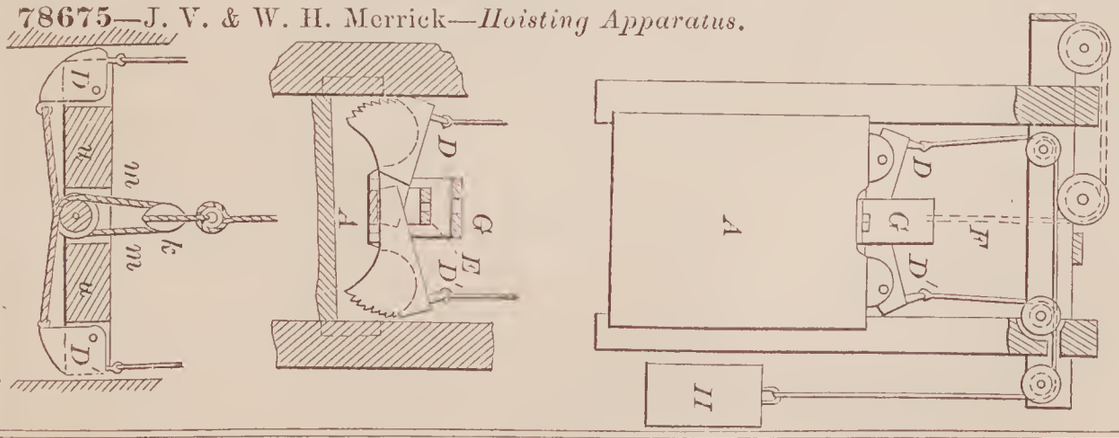
78671—W. C. Jones—*Sheep Shearing Table.*

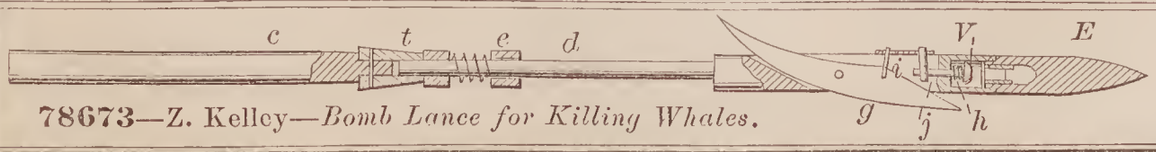


78674—C. T. Mason—*Electric Fan for Lamps.*

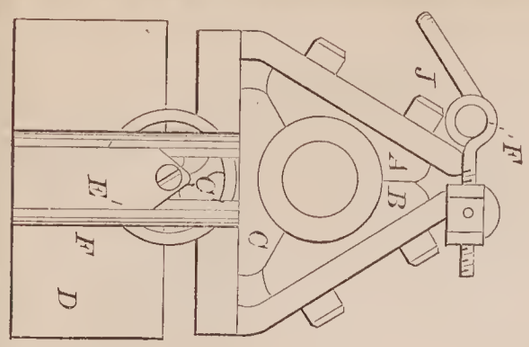


78675—J. V. & W. H. Merrick—*Hoisting Apparatus.*

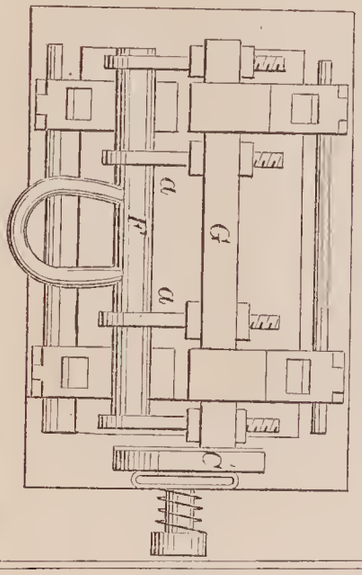




78673—Z. Kelley—*Bomb Lance for Killing Whales.*



78676—E. H & H. E. Merrill—*For Making Bottles of Clay.*



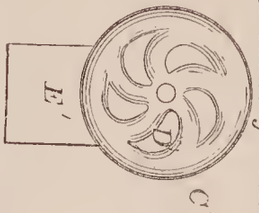
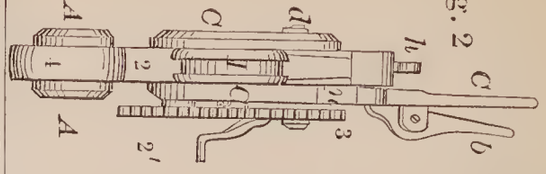
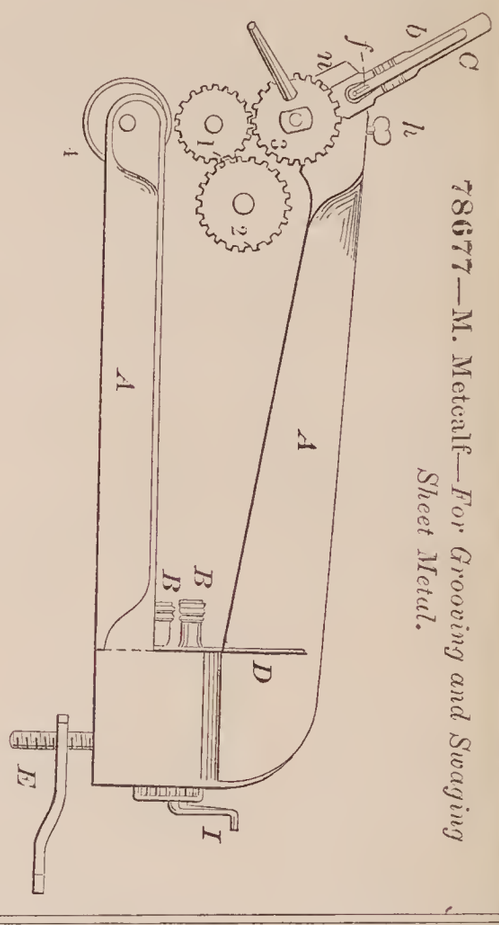
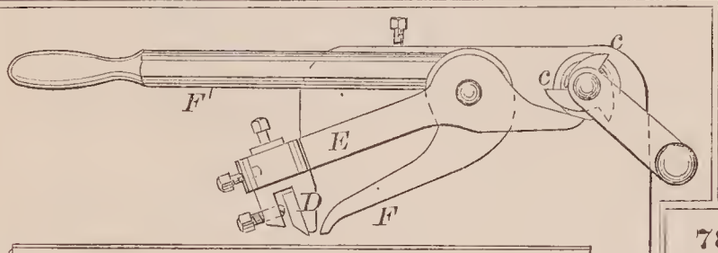


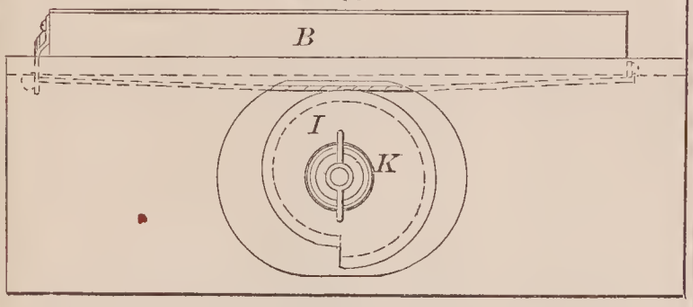
Fig. 2





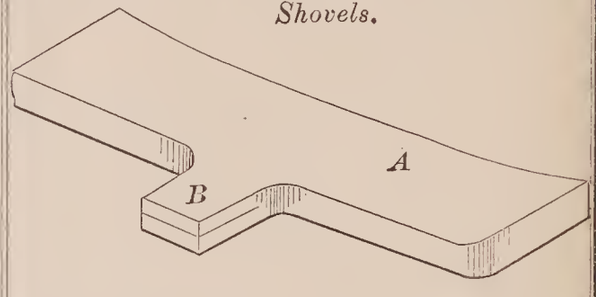
78677—M. Metcalf—*For Grooving and Swaging Sheet Metal.*



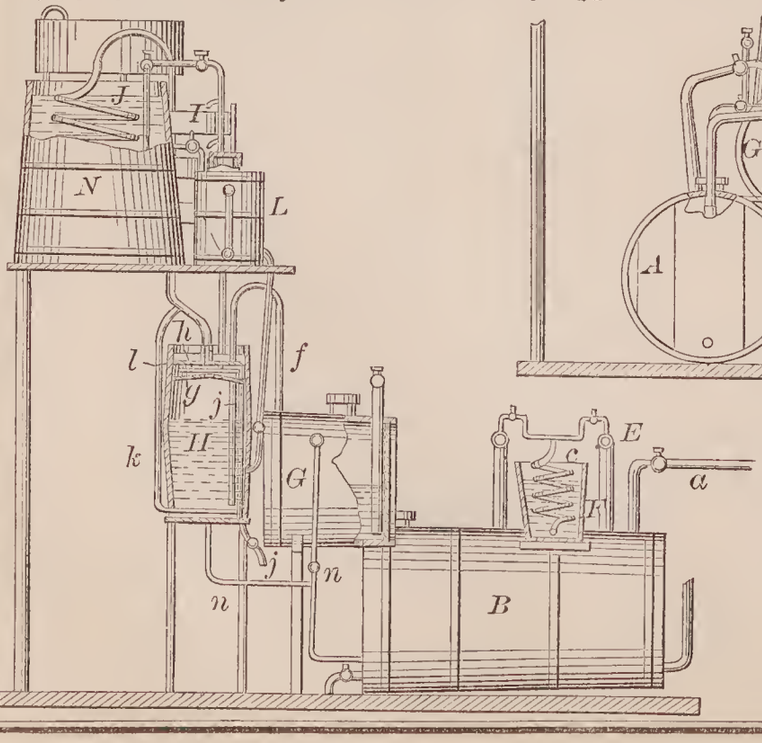


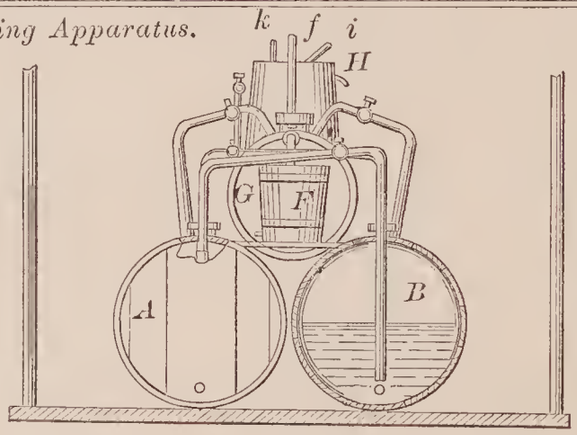
78681—W. T. Nicholson—*For Cutting Files.*

78679—H. M. Myers—*Manufacture of Shovels.*

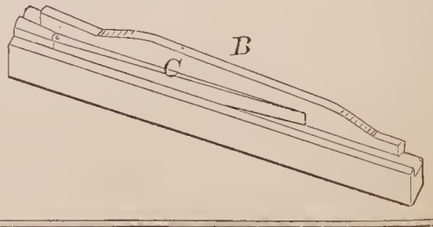


78678—A. A. Meyendorff—*Distilling Apparatus.*

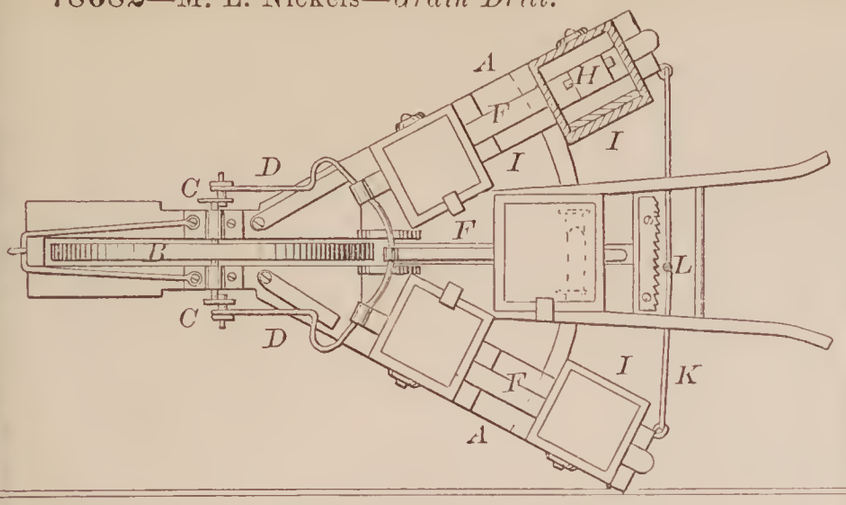




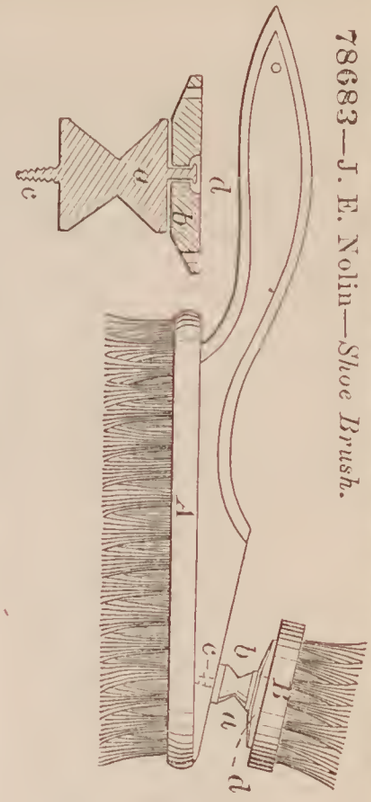
78680—T. Newman—*Switch for City Railroads.*



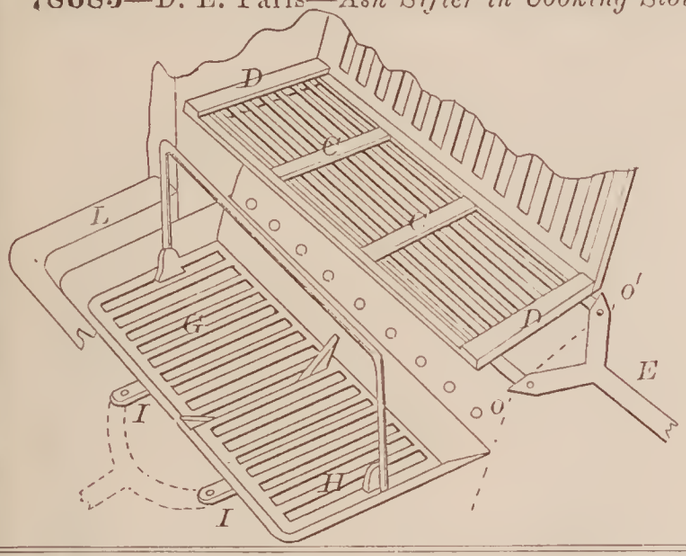
78682—M. L. Nickels—*Grain Drill.*



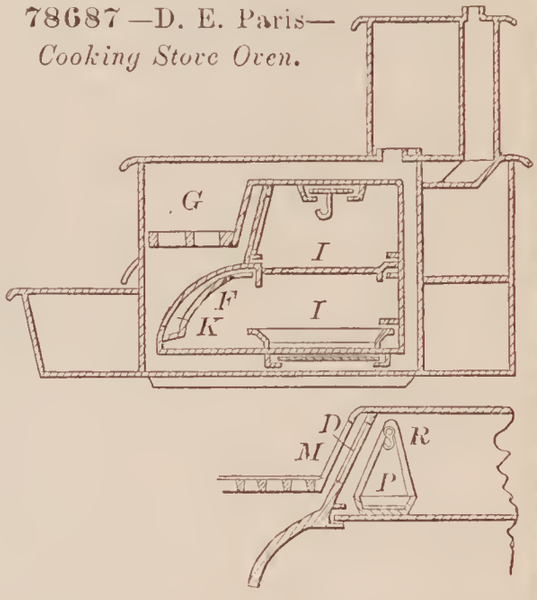
78683—J. E. Nolin—*Shoe Brush.*



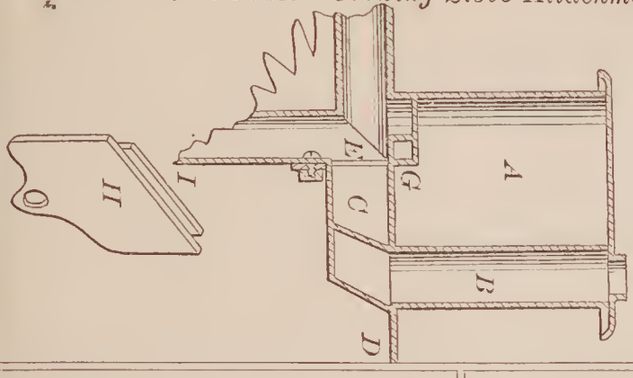
78685—D. E. Paris—*Ash Sifter in Cooking Stoves.*



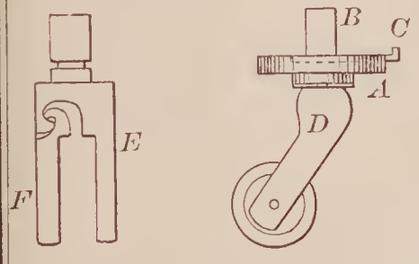
78687—D. E. Paris—*Cooking Stove Oven.*



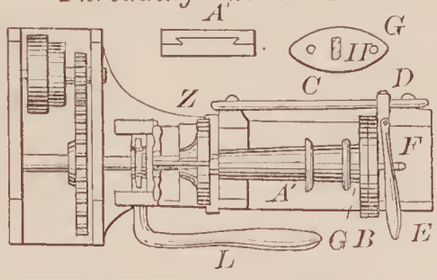
78686—D. E. Paris—*Cooking Stove Attachment.*



78690—J. W. Pugh—*Caster.*

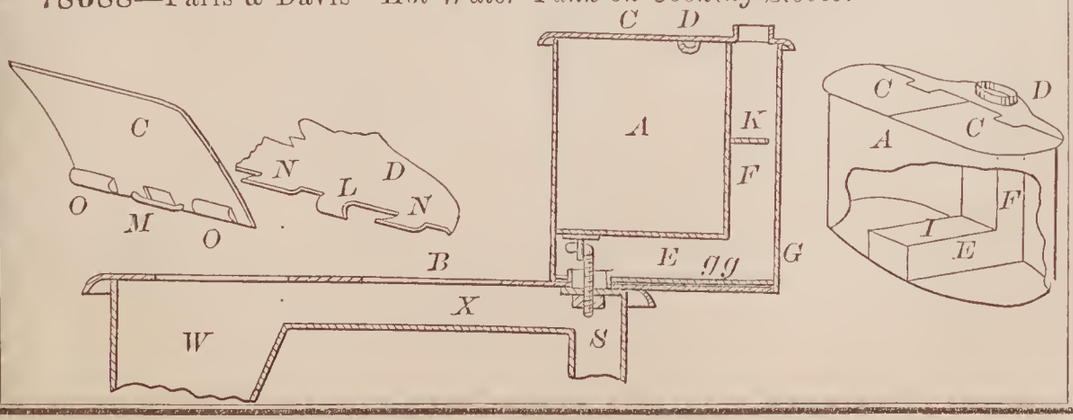


78684—W. W. Norton—*For Threading Thimble Skeins.*

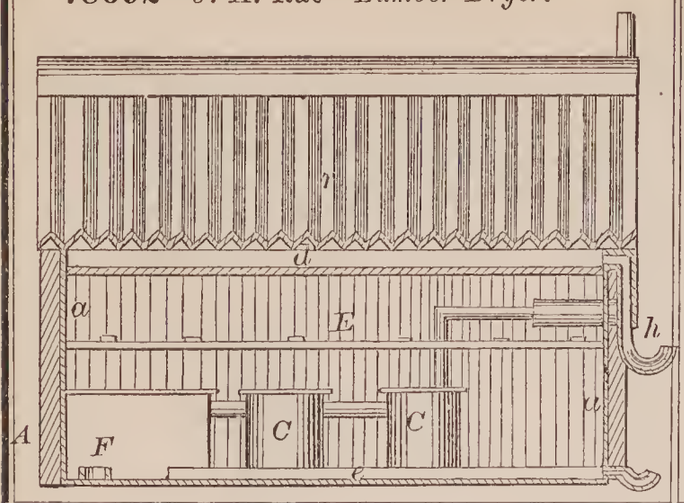


78689—A. B. Parsons—*Tube Well.*

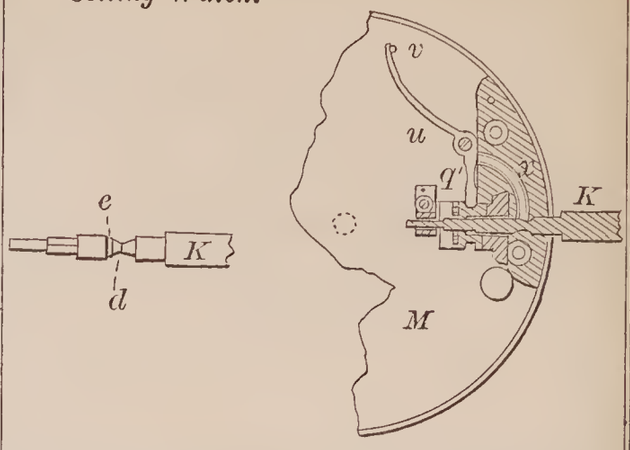
78688—Paris & Davis—*Hot Water Tank on Cooking Stoves.*



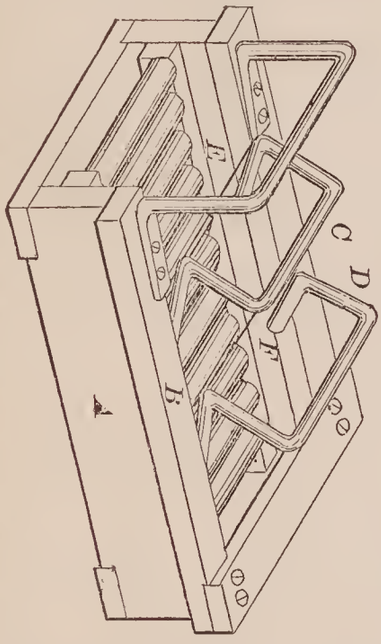
78692—J. H. Rae—*Lumber Dryer.*



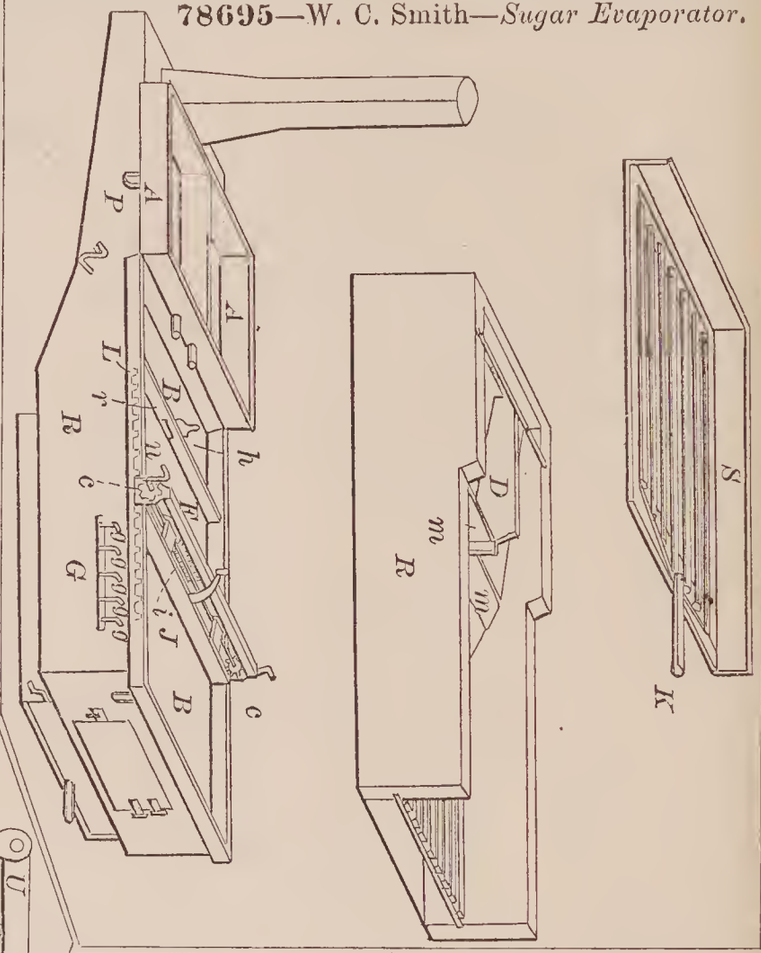
78693—Rice & Gerry—*Stem Winding and Setting Watch.*



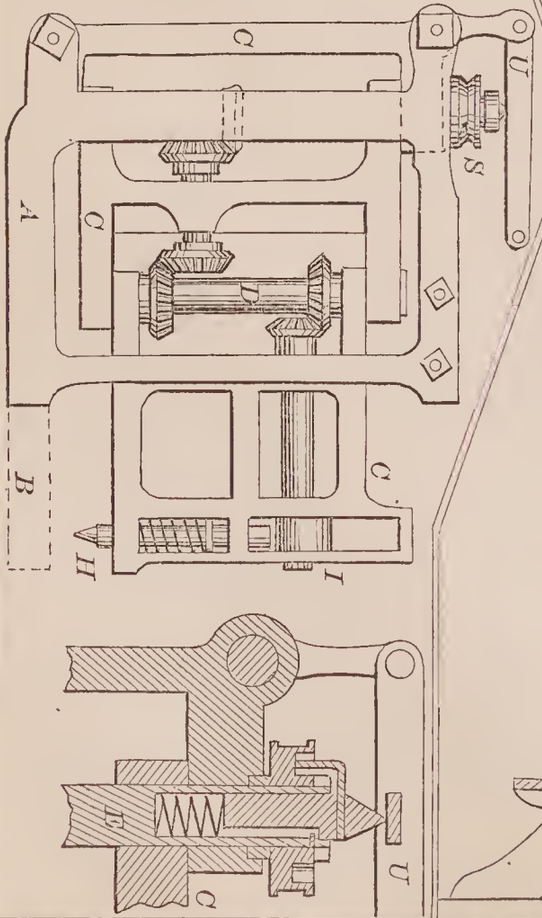
78694—J. Shellaberger—*Tile Cutting Machine.*



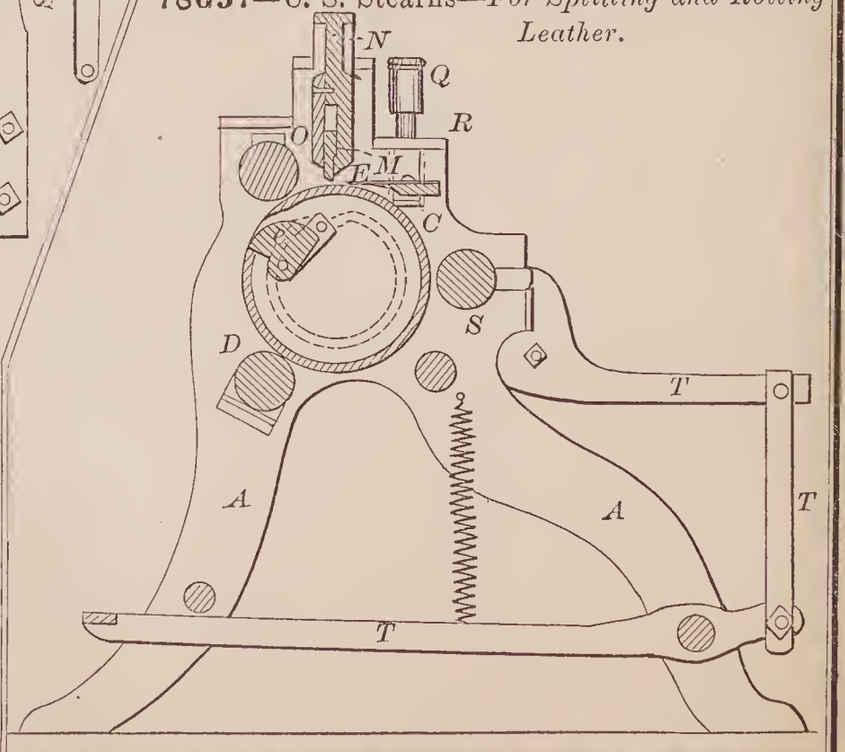
78695—W. C. Smith—*Sugar Evaporator.*



78696—C. S. Stearns—*For Cutting Leather.*

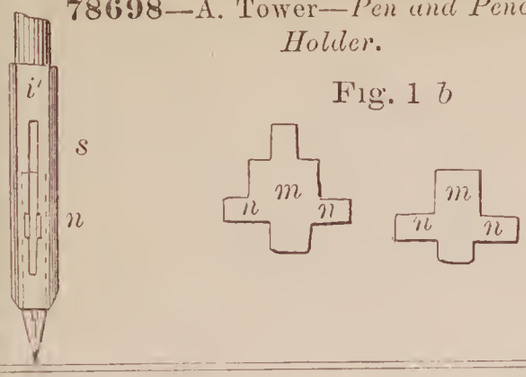


78697—C. S. Stearns—*For Splitting and Rolling Leather.*

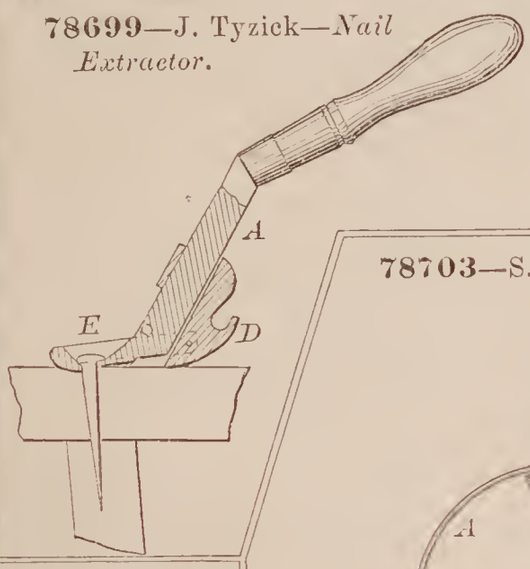


78698—A. Tower—*Pen and Pencil Holder.*

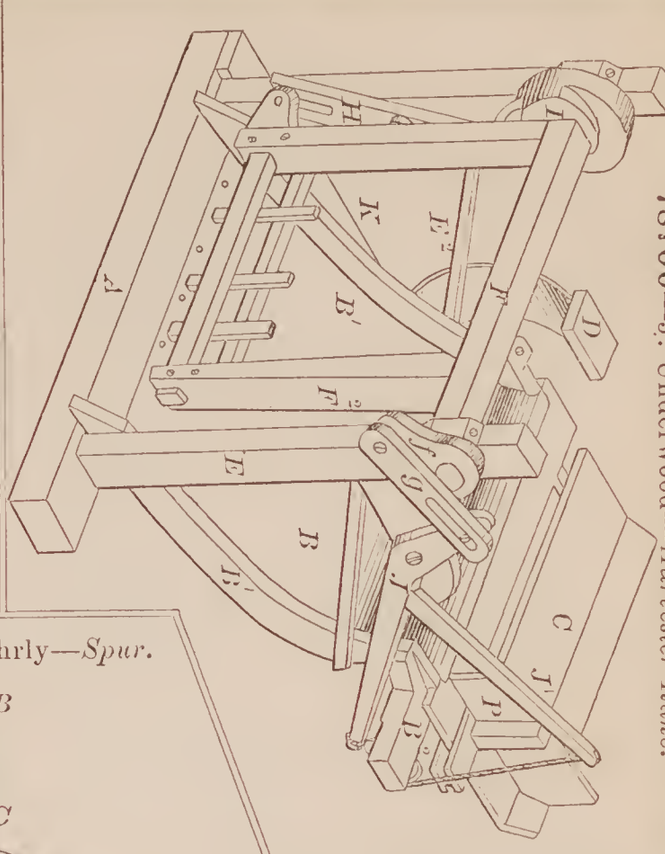
Fig. 1 *b*



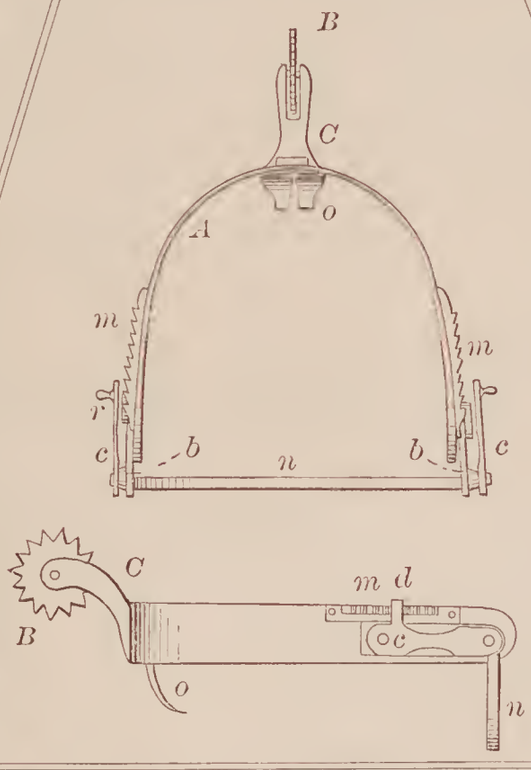
78699—J. Tyzick—*Nail Extractor.*



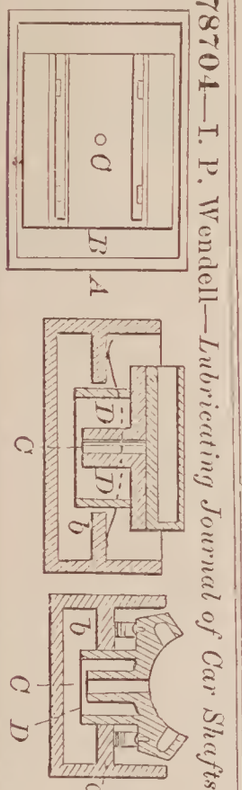
78700—J. Underwood—*Harvester Rake.*



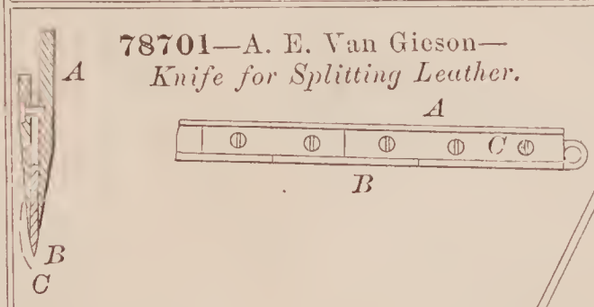
78703—S. Wehrly—*Spur.*



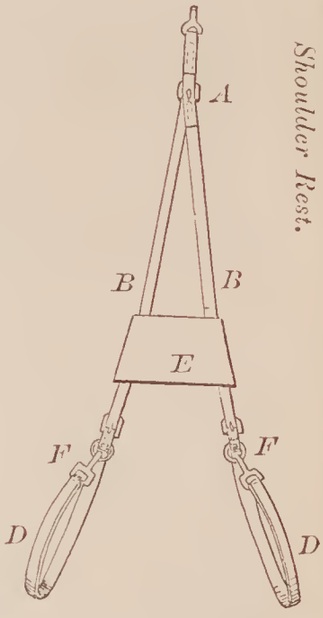
78704—I. P. Wendell—*Lubricating Journal of Car Shafts.*



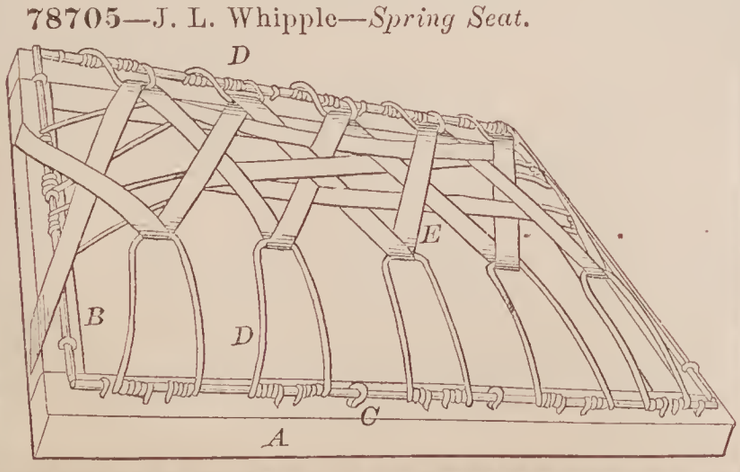
78701—A. E. Van Gieson—*Knife for Splitting Leather.*



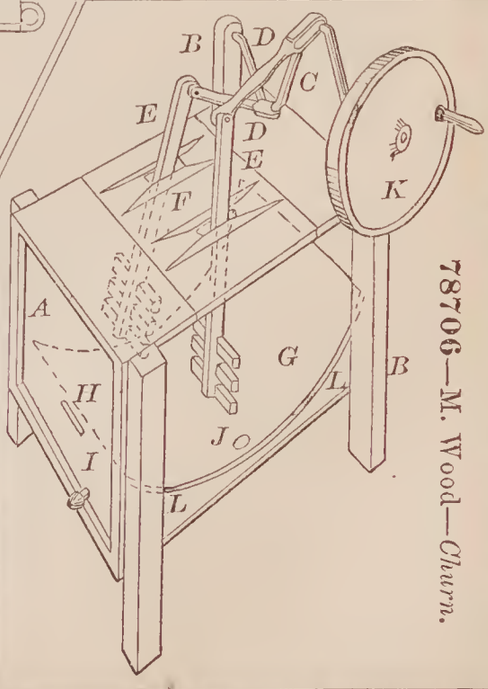
78702—A. V. W. Van Vechten—*Head and Shoulder Rest.*



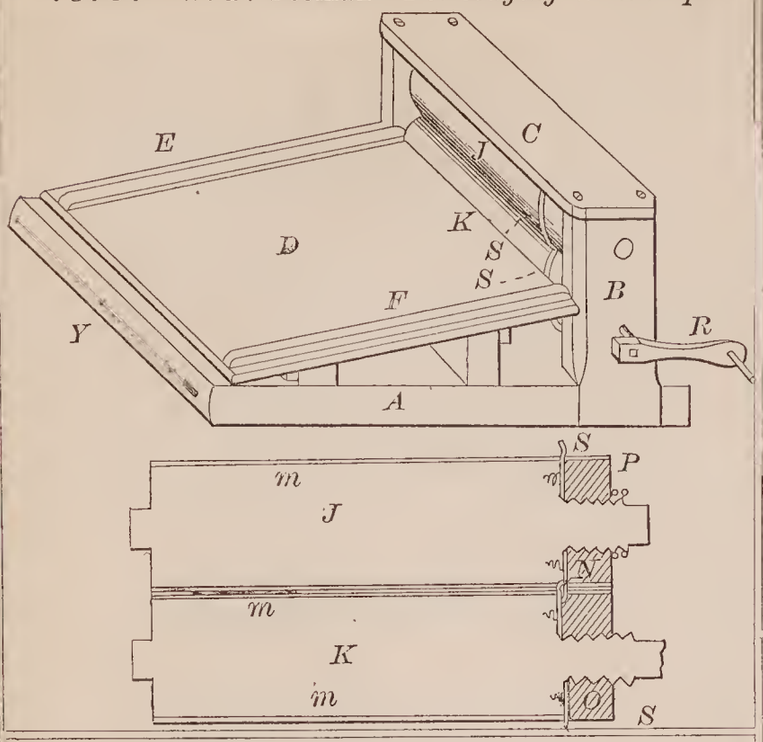
78705—J. L. Whipple—*Spring Seat.*



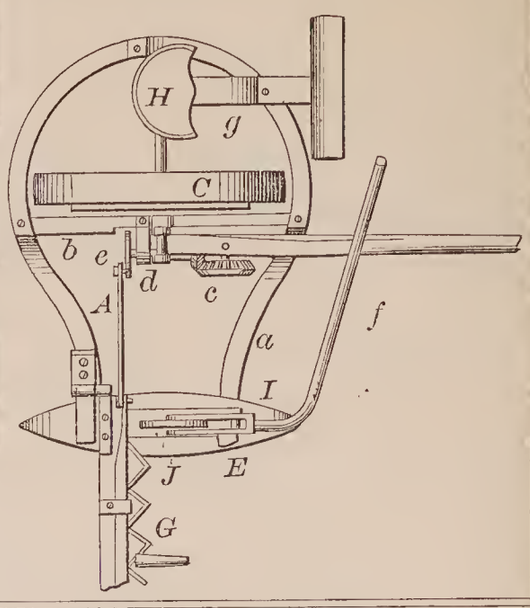
78706—M. Wood—*Churn.*



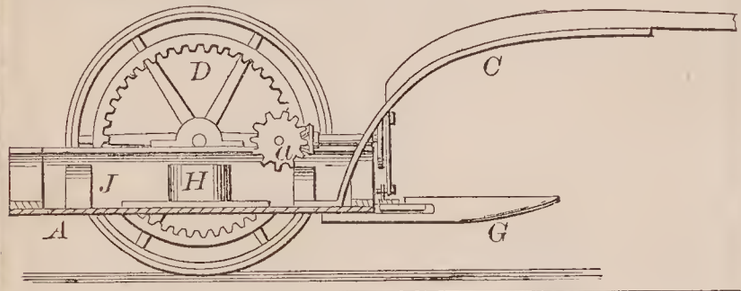
78707—W. P. Yeoman—*For Edging Wall Paper.*



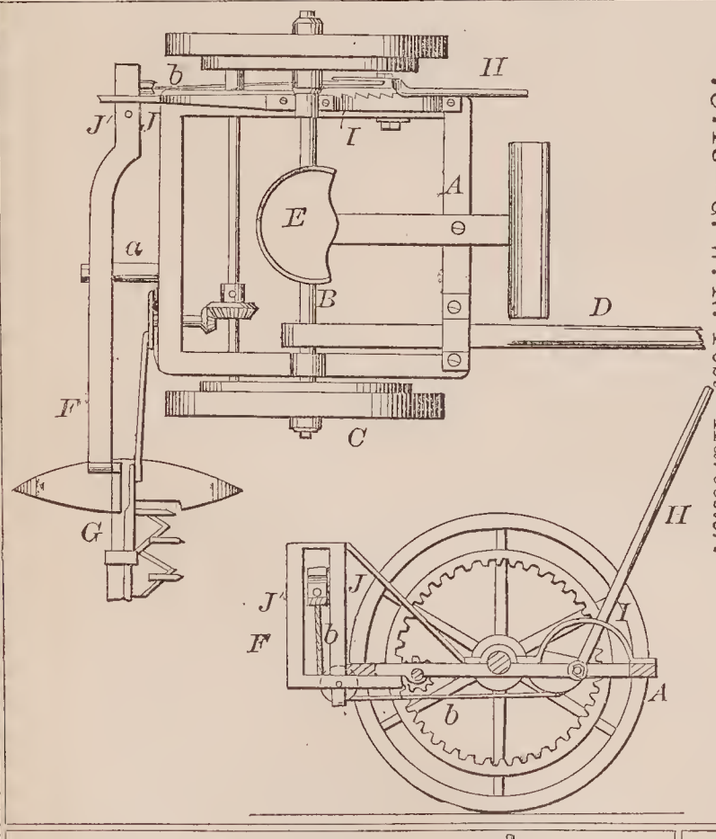
78708—G. W. N. Yost—*Harvester.*



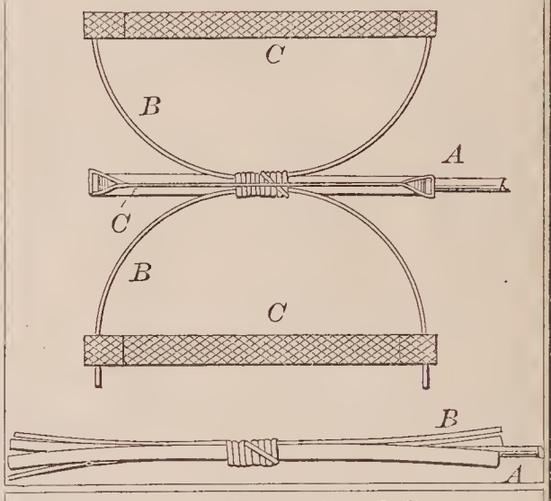
78709—G. W. N. Yost—*Harvester.*



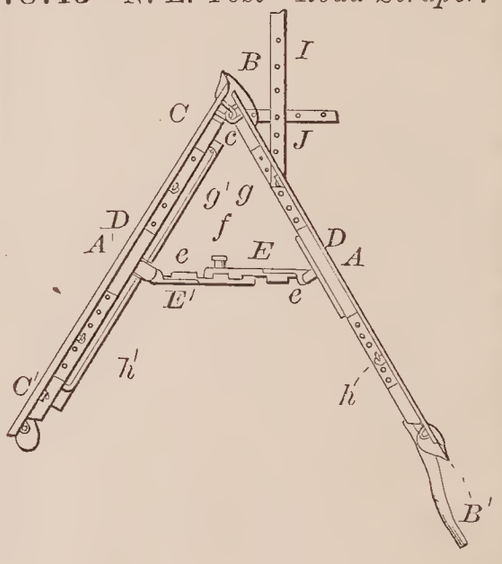
78710—G. W. N. Yost—*Harvester.*



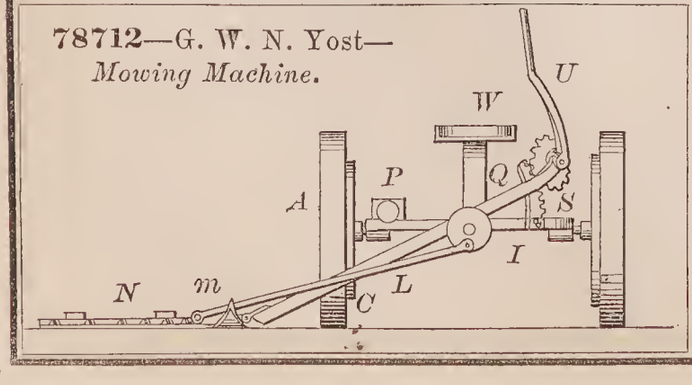
78711—G. W. N. Yost—
Harvester Reel.



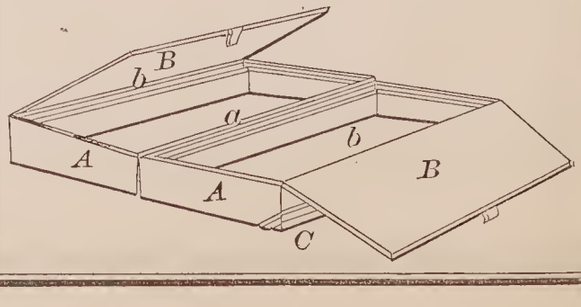
78713—N. E. Yost—*Road Scraper.*



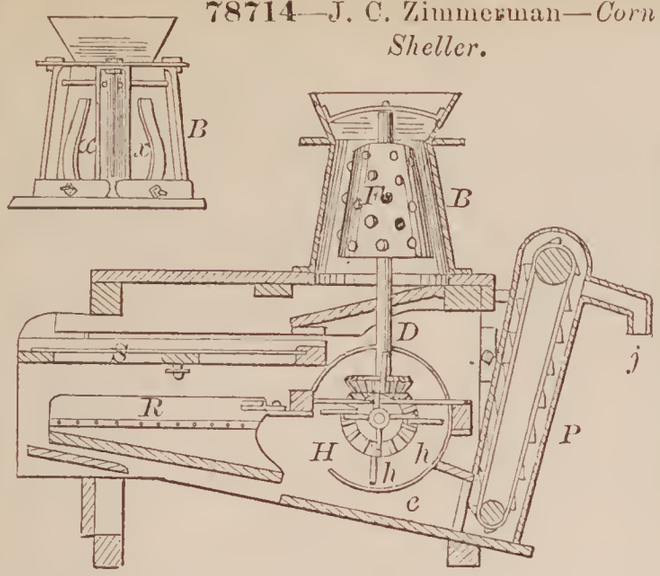
78712—G. W. N. Yost—
Mowing Machine.



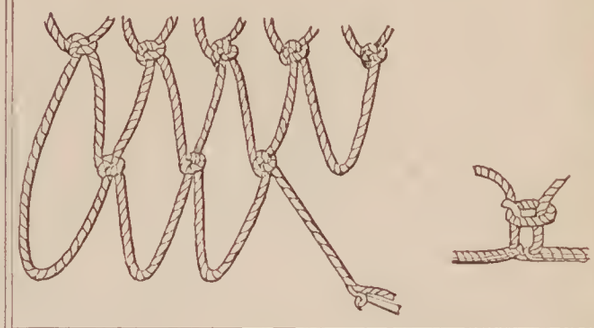
78715—W. Armour—*Paper Box.*



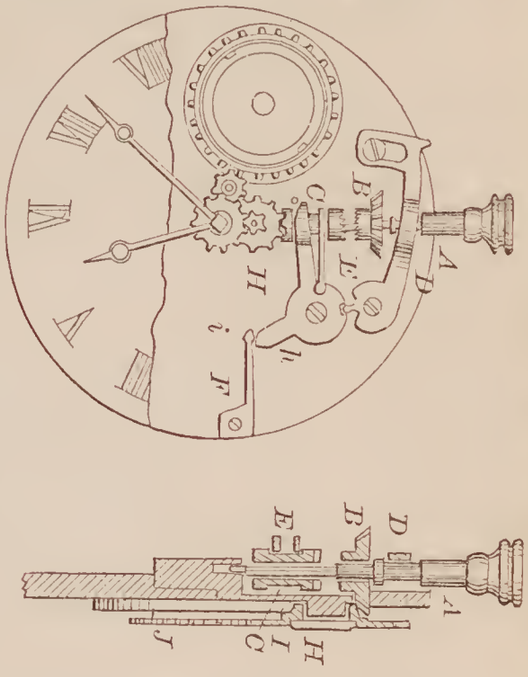
78714—J. C. Zimmerman—*Corn Sheller.*



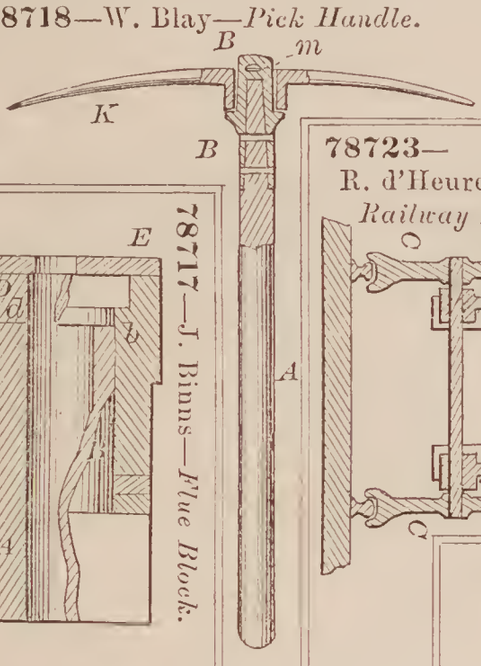
78716—B. Arnold—*Fishing Net.*



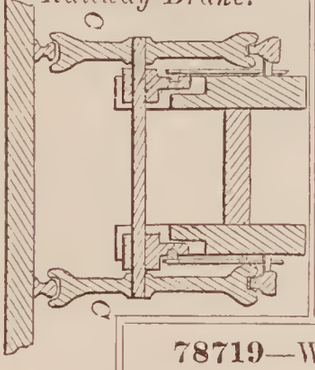
78720—E. Châtelain—*Watch.*



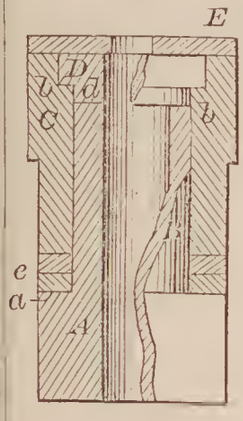
78718—W. Blay—*Pick Handle.*



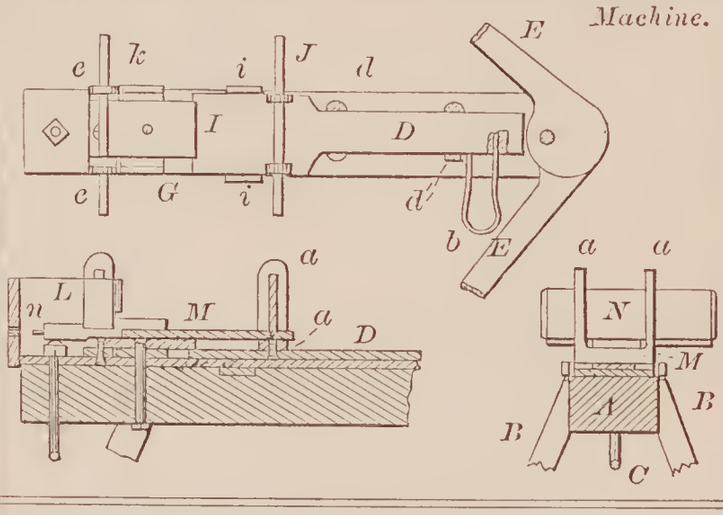
78723—R. d'Heureuse—*Railway Brake.*



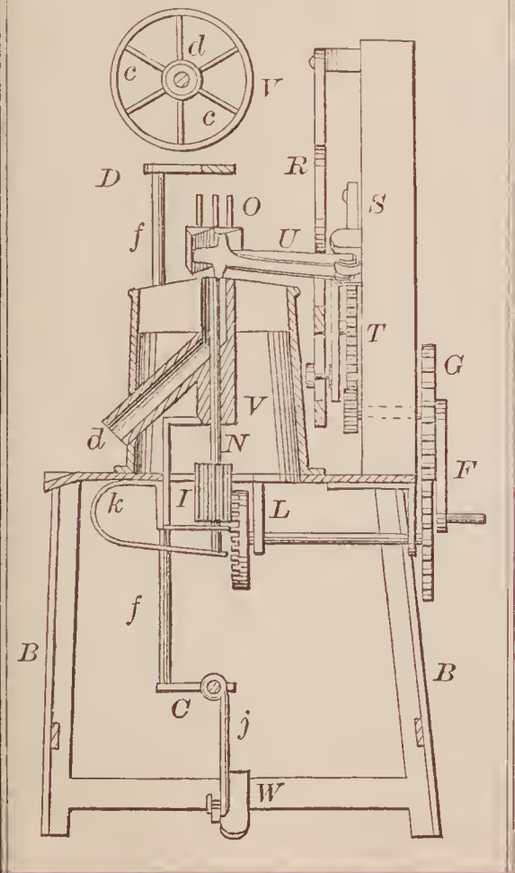
78717—J. Binns—*Flue Block.*



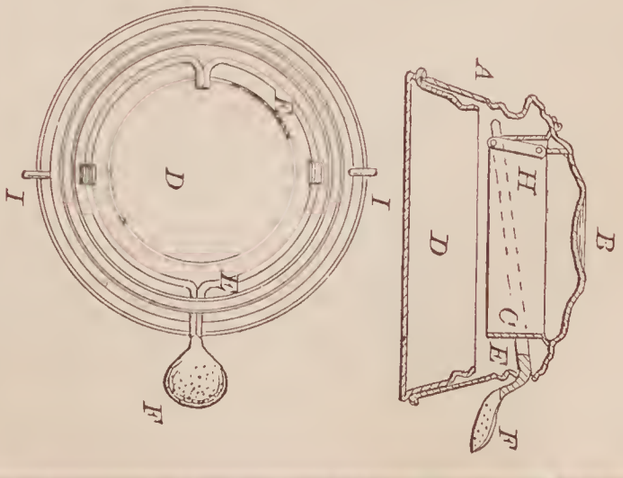
78719—W. Britton—*Tire Shrinking and Punching Machine.*



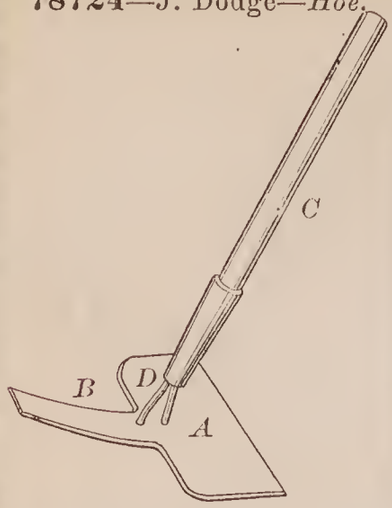
78721—A. Clark—*Apple Parer, Corer and Slicer.*



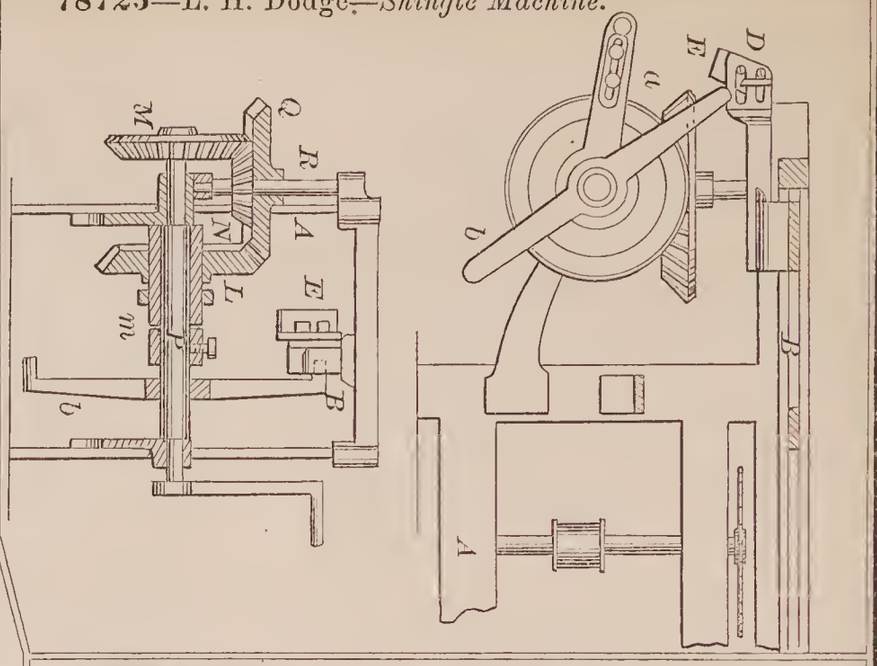
78722—E. Detwiler—*Spittoon.*



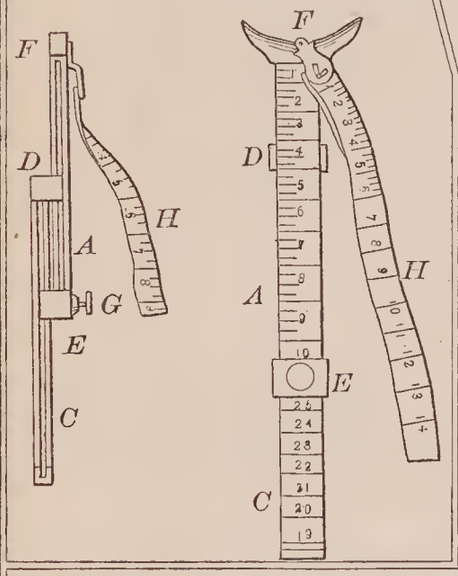
78724—J. Dodge—*Hoe.*



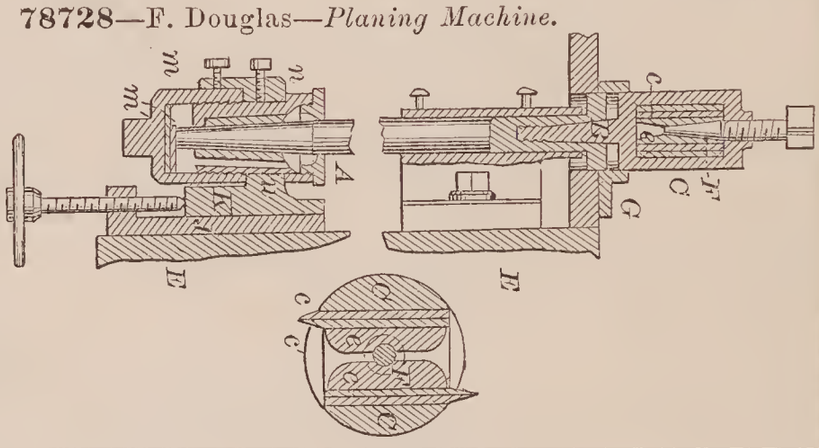
78725—L. H. Dodge—*Shingle Machine.*



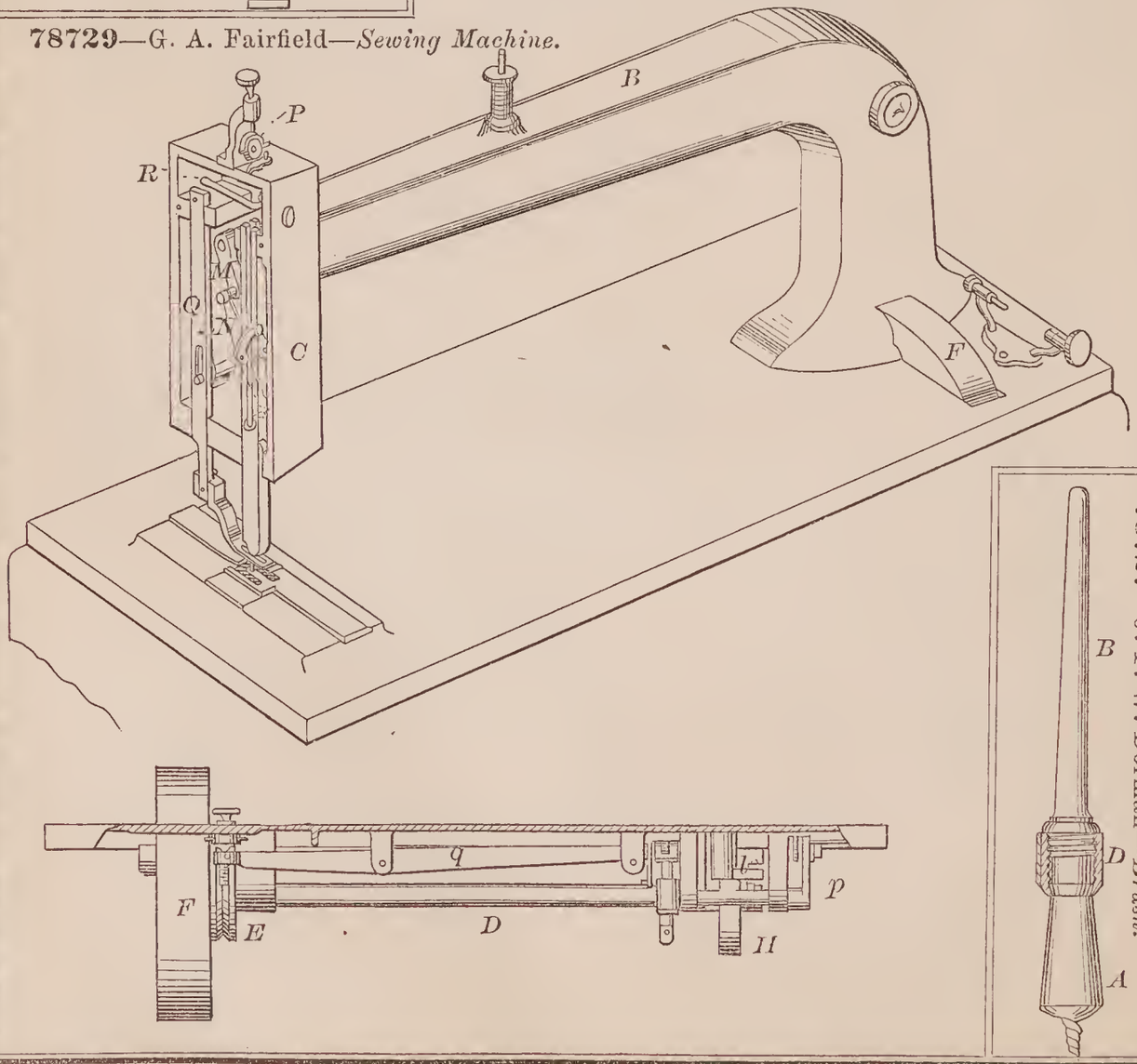
78726—P. W. Dolan—*Rule.*



78728—F. Douglas—*Planing Machine.*

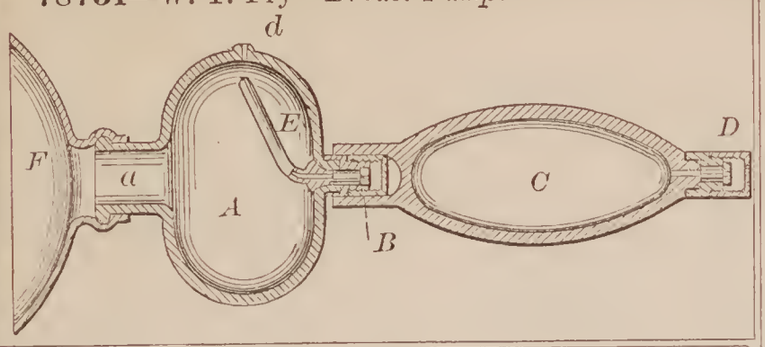


78729—G. A. Fairfield—*Sewing Machine.*

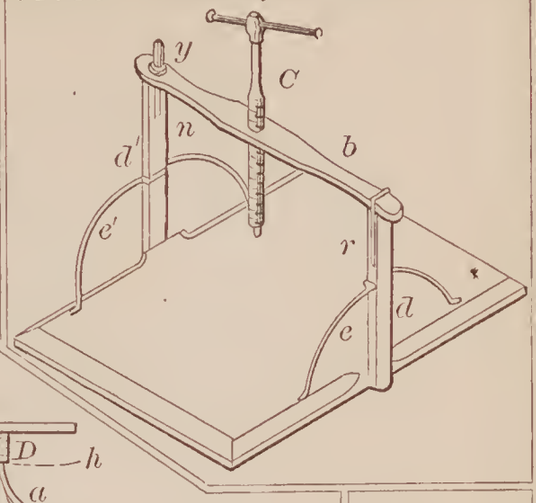


78727—J. F. W. Dorman—*Brush.*

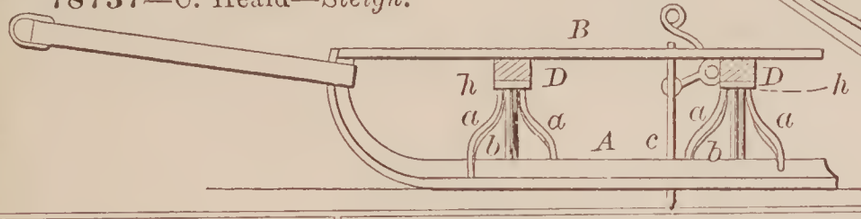
78731—W. T. Fry—*Breast Pump.*



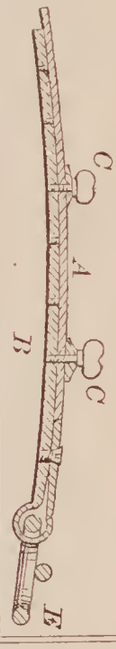
78738—H. Henley—*Press.*



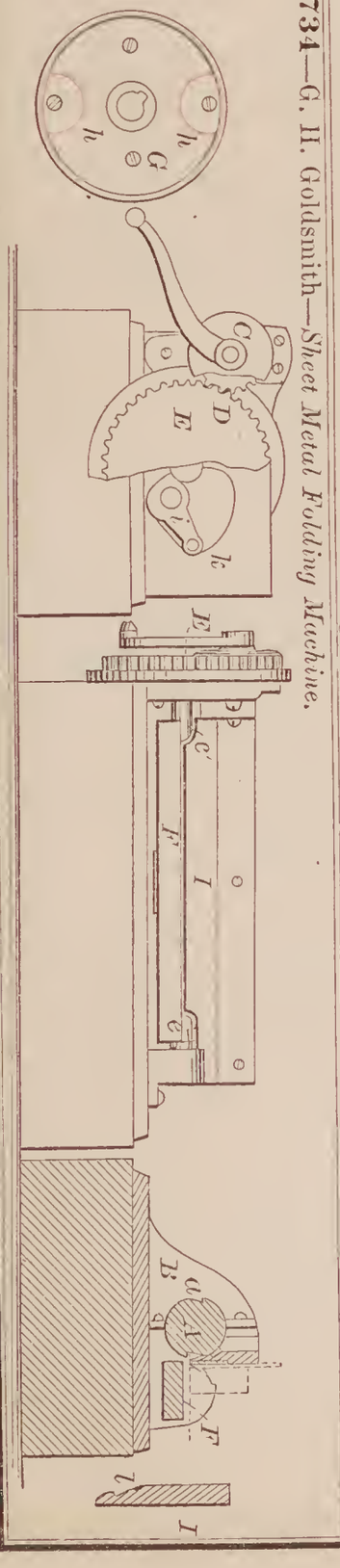
78737—C. Heald—*Sleigh.*



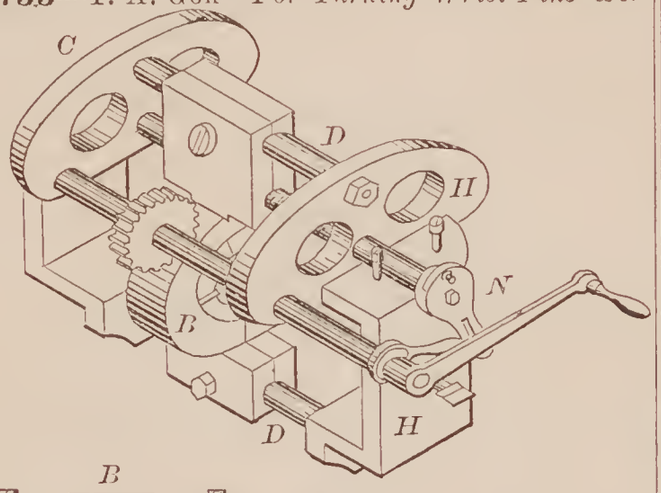
78736—L. Hays—*Pad Billet.*

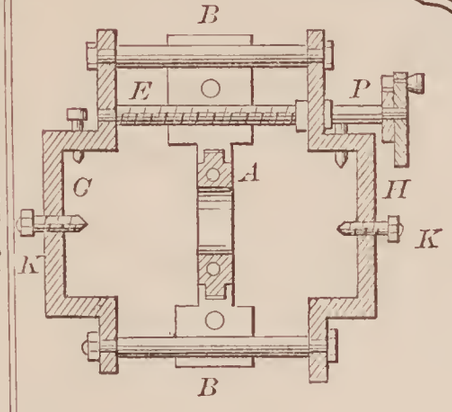


78734—G. H. Goldsmith—*Sheet Metal Folding Machine.*

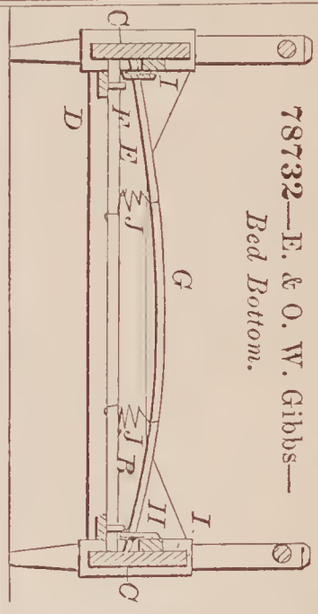


78733—T. A. Goff—*For Turning Wrist Pins &c.*

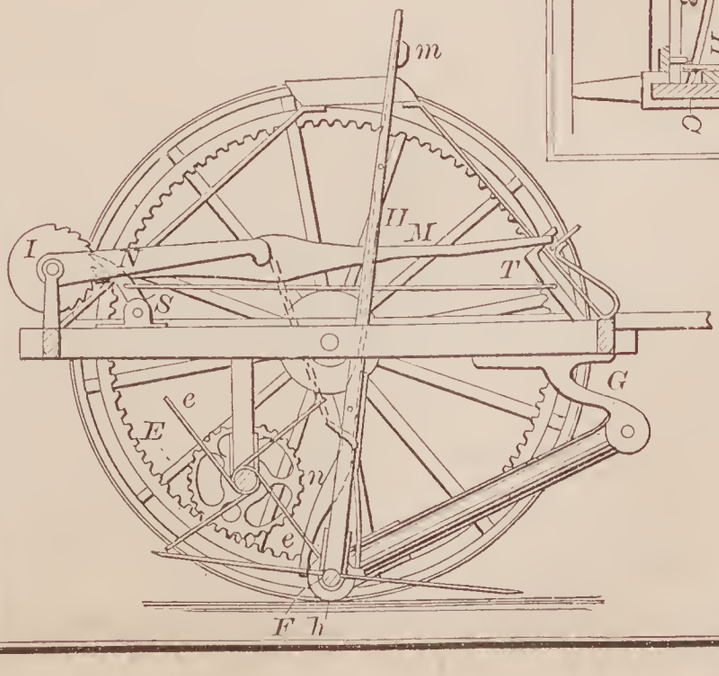




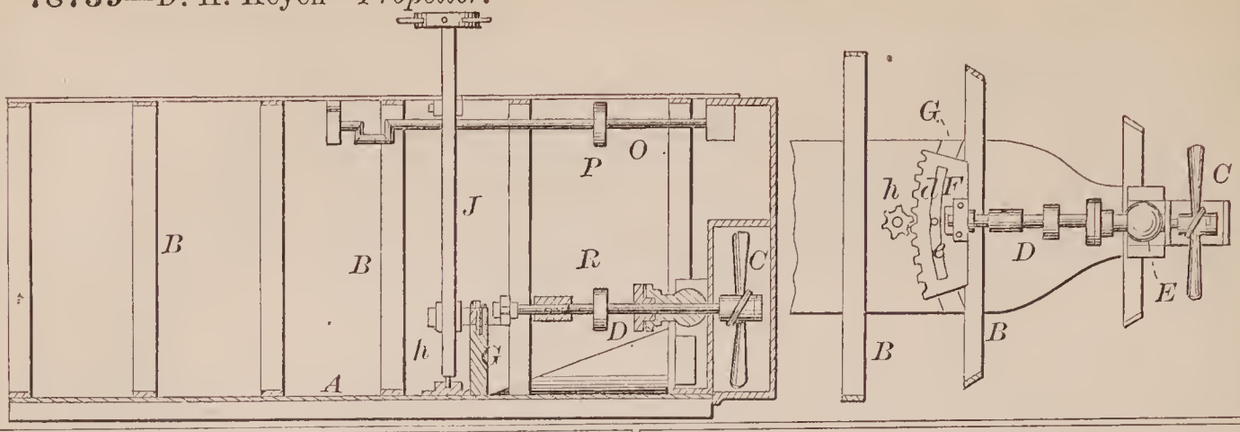
78732—E. & O. W. Gibbs—*Bed Bottom.*



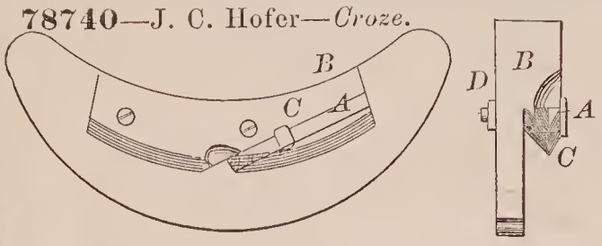
78735—E. R. Hall—*Horse Hay Rake.*



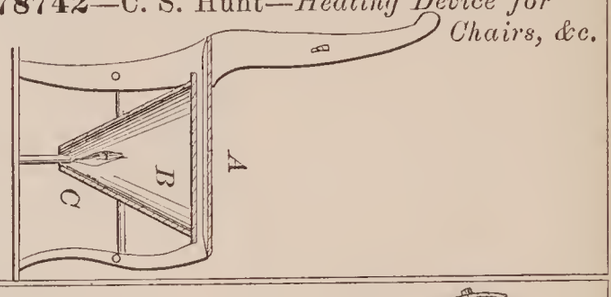
78739—D. H. Heyen—*Propeller.*



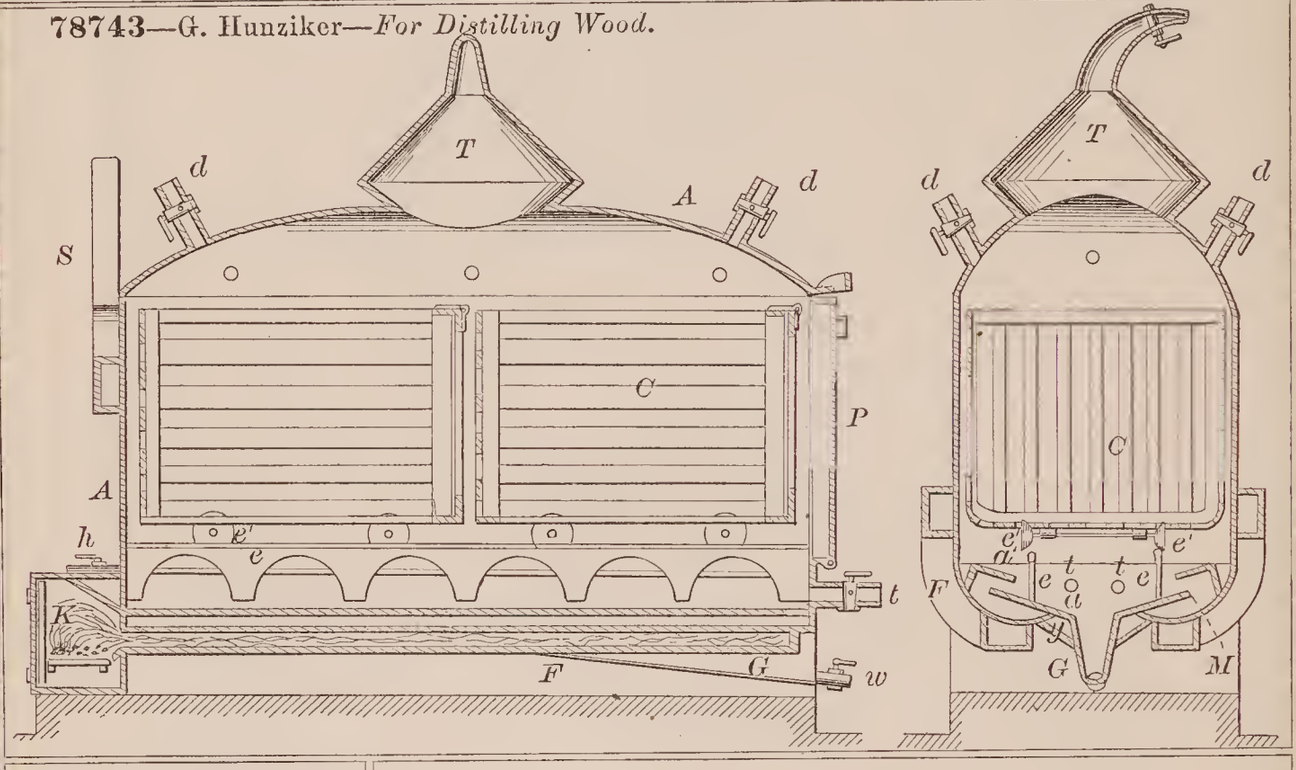
78740—J. C. Hofer—*Croze.*



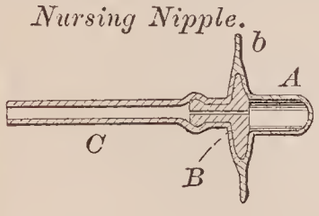
78742—C. S. Hunt—*Heating Device for Chairs, &c.*



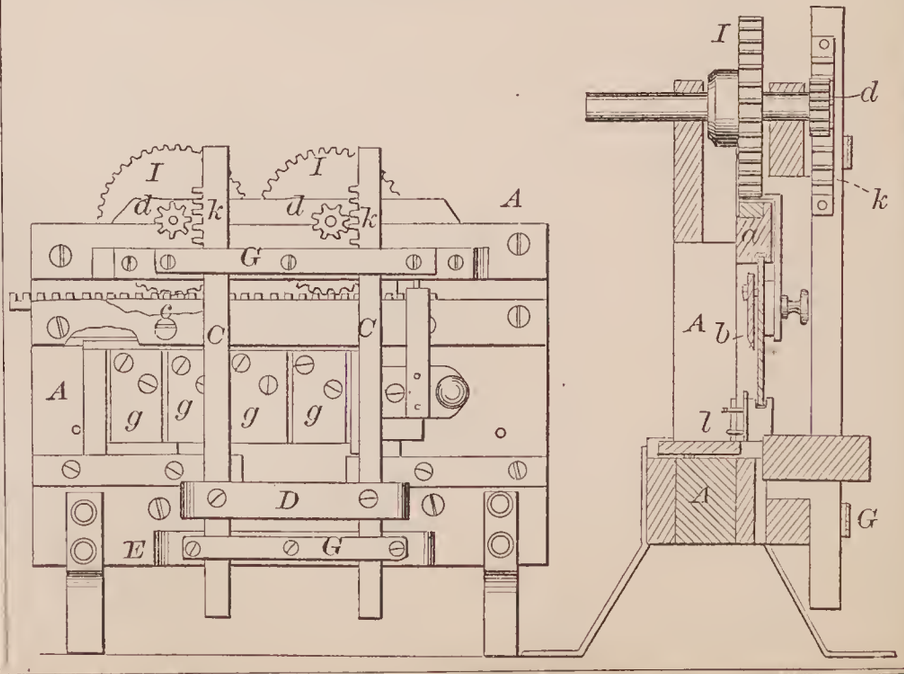
78743—G. Hunziker—*For Distilling Wood.*



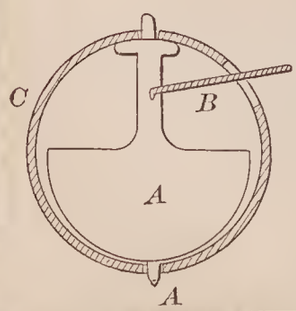
78741—F. H. Holton—*Nursing Nipple.*



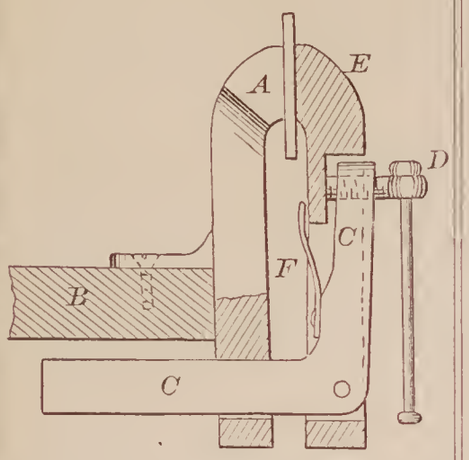
78744—L. Jennings—*Shingle Machine.*



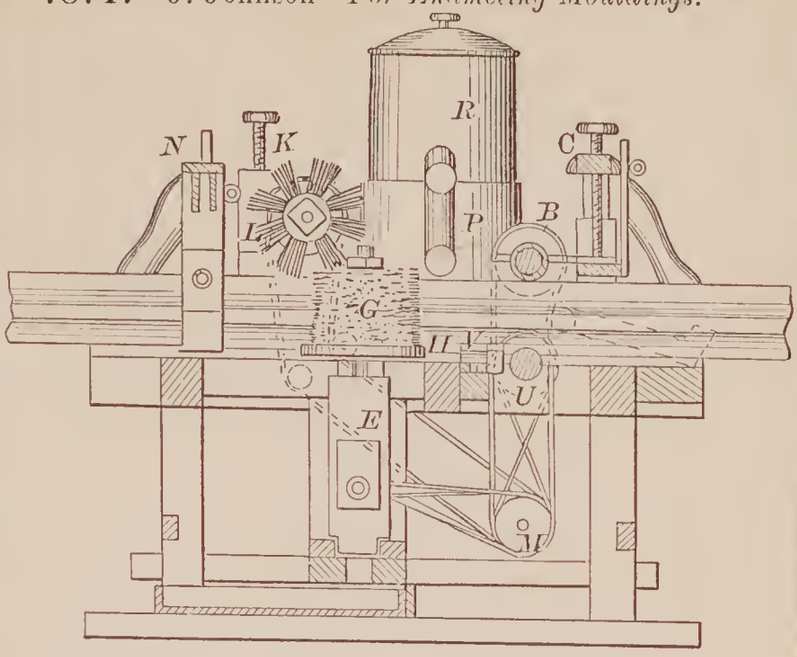
78745—C. L. Johnson—*Top.*



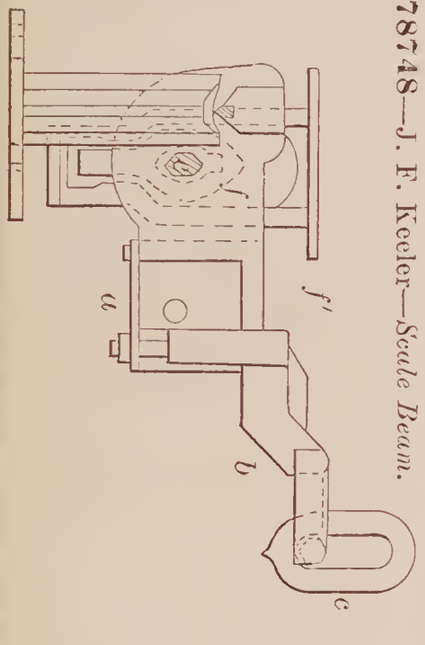
78746—F. B. Johnson—*Vise.*

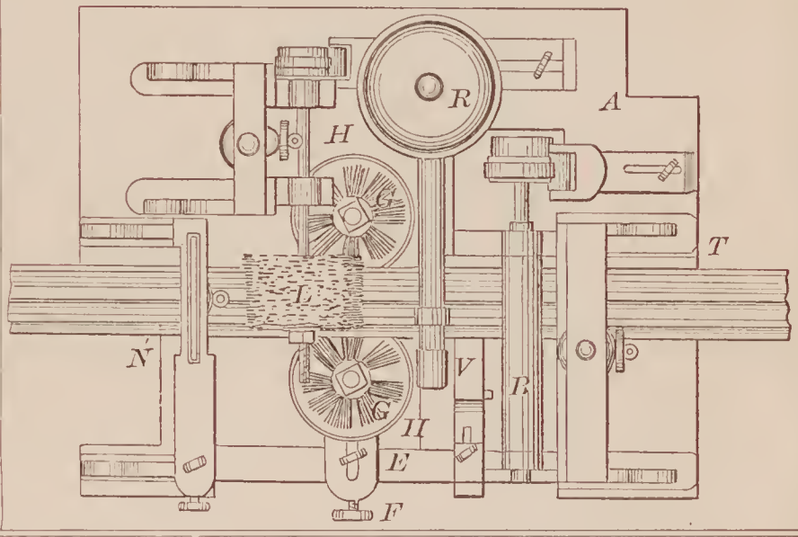


78747—J. Johnson—*For Enameling Mouldings.*

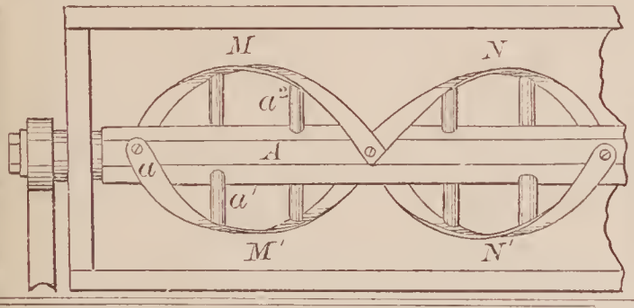


78748—J. F. Keeler—*Scale Beam.*

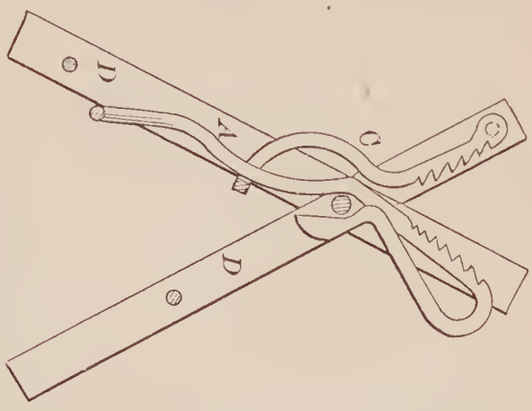




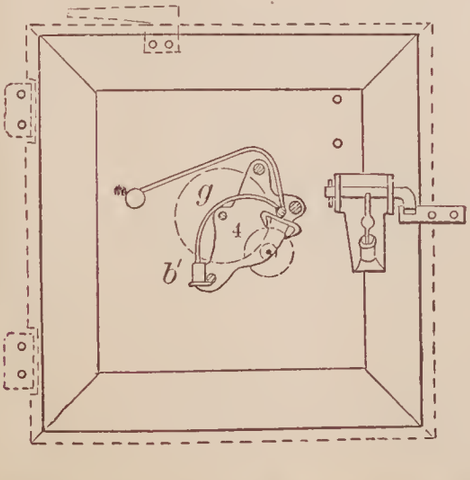
78749—J. D. Kellogg, Jr.—*Churn Dasher.*



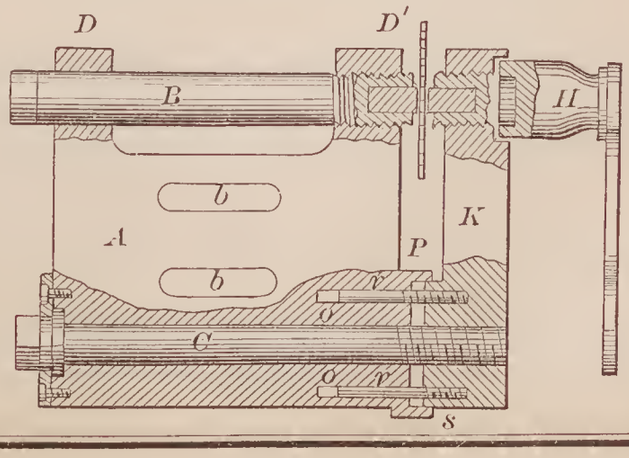
78750—F. W. Mansfield—*Saw Horse.*



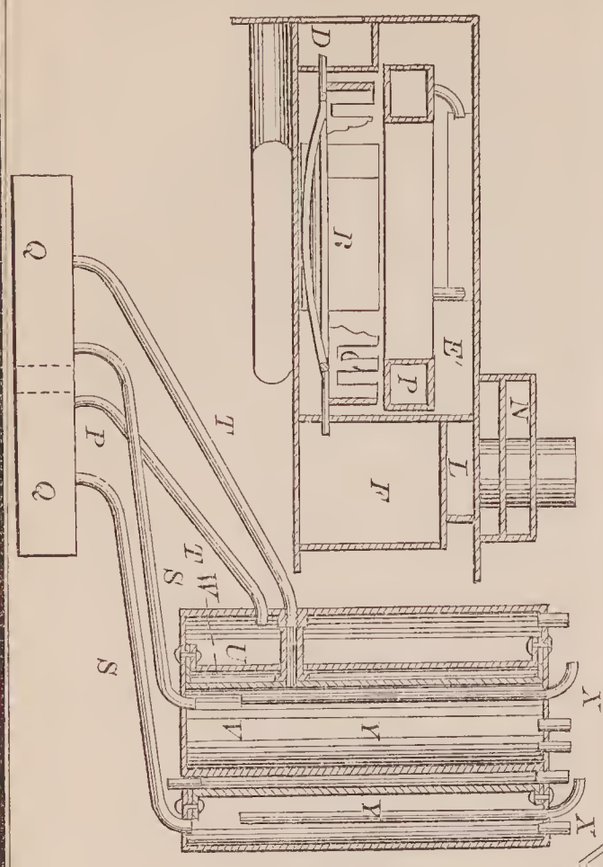
78754—S. Morton—*Attachment for Bake Oven Doors.*



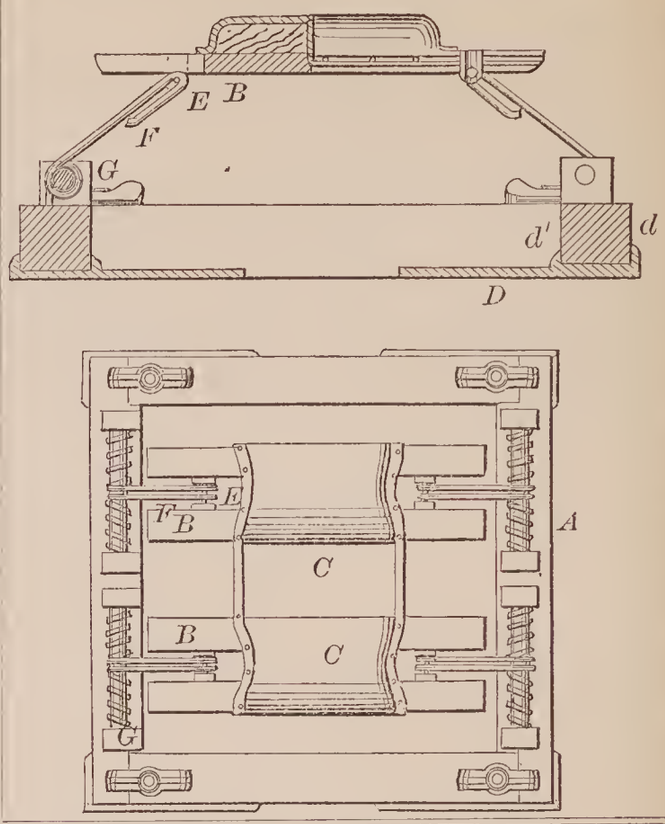
78752—T. Milner—*Circular Saw Guide.*



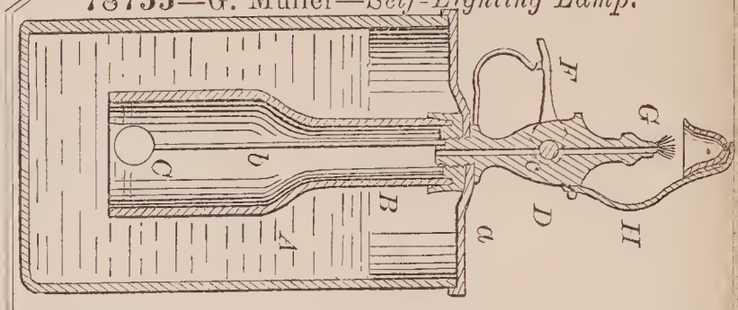
78751—J. McCloskey—*Cooking Range.*

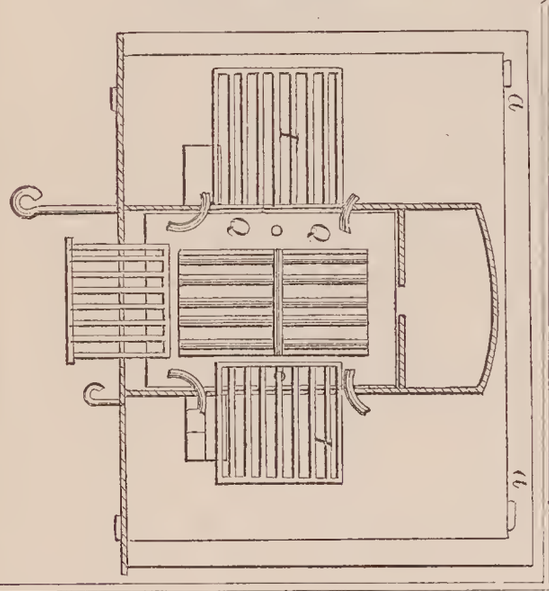


78753—Moore & De Bow—*Bed Bottom.*

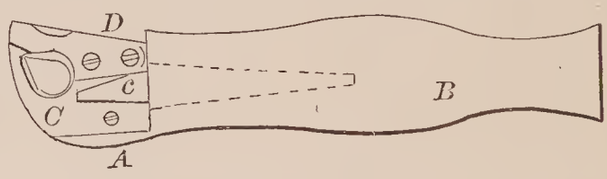


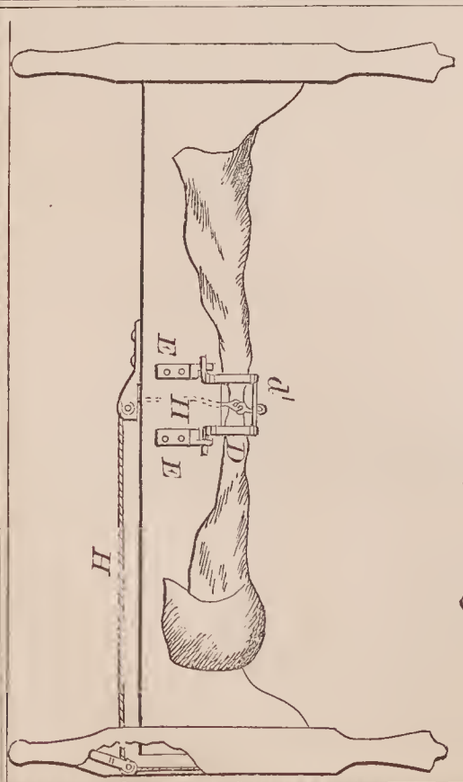
78755—G. Müller—*Self-Lighting Lamp.*



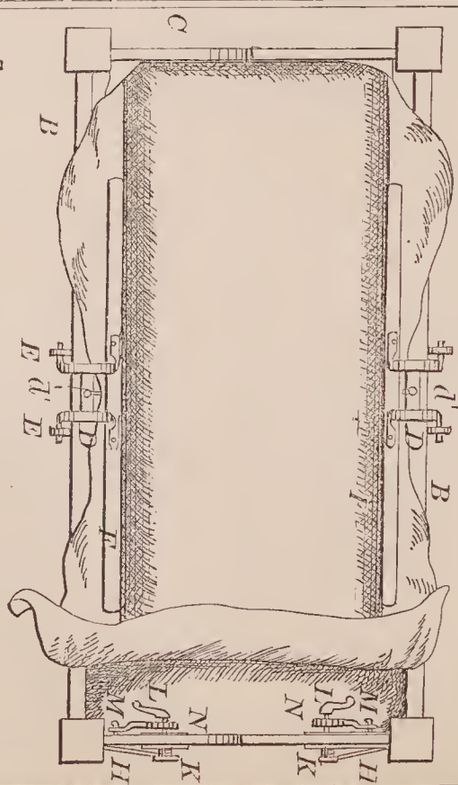


78758—M. Packard—*Self-Edge Plane.*

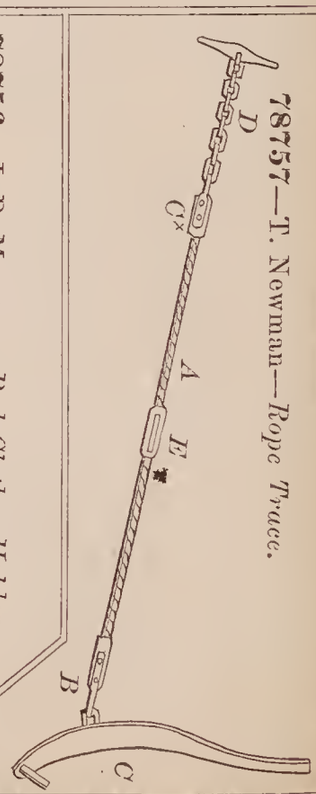




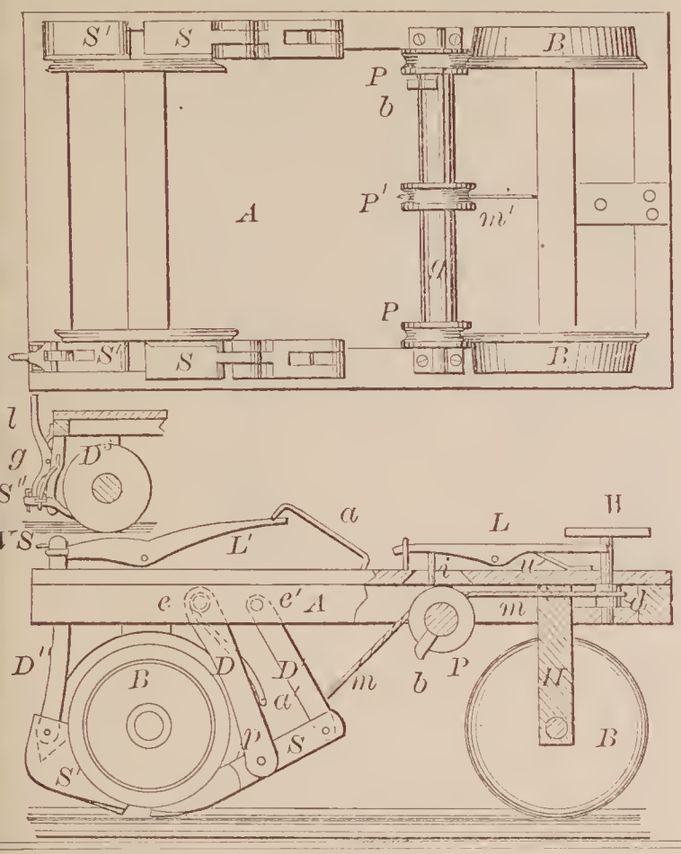
78756—J. B. Munson—*Bed Clothes Holder.*



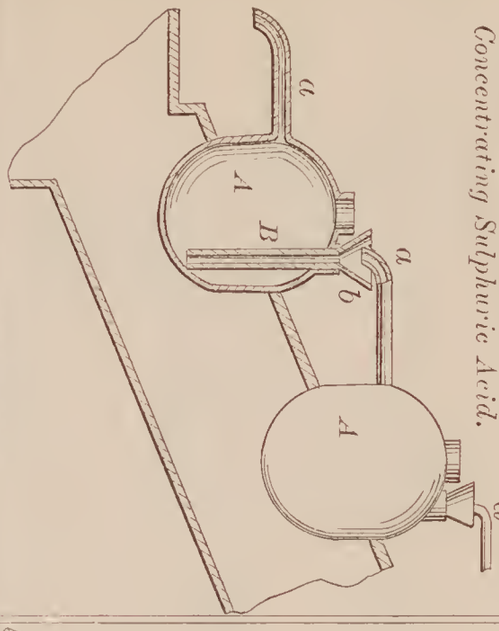
78757—T. Newman—*Rope Trace.*



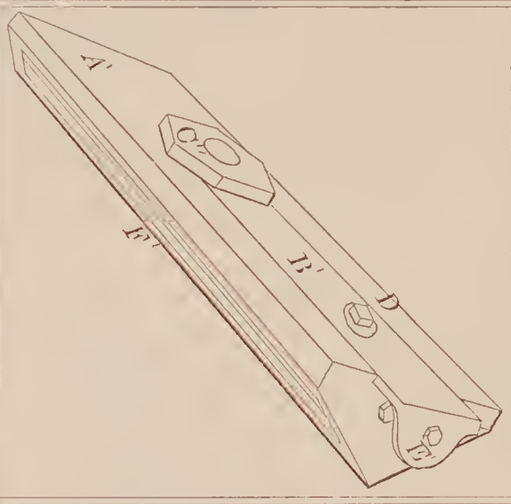
78759—W. T. Parsons—*Car Brake.*



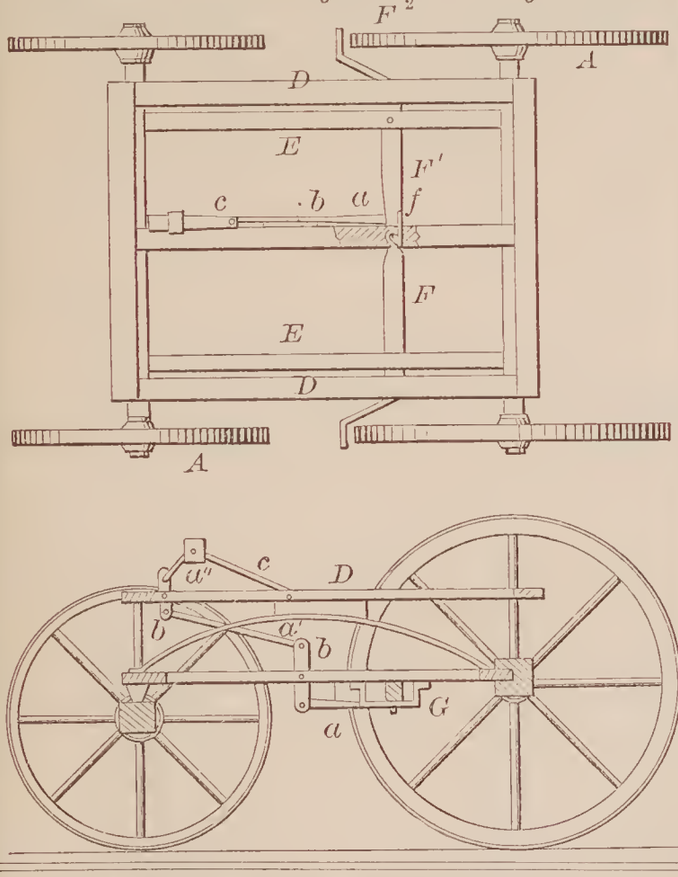
78760—Perrin & Saunders—*Retort for Concentrating Sulphuric Acid.*



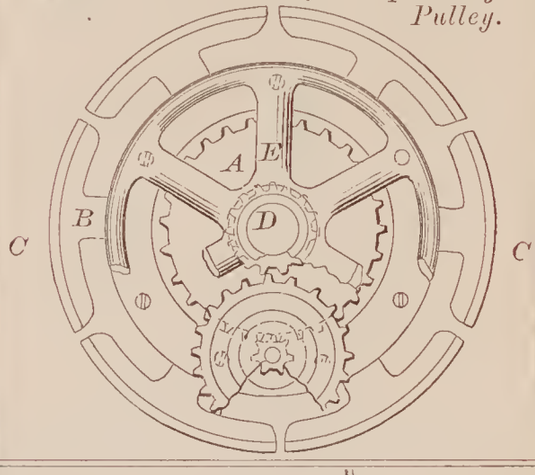
78761—A. H. Rhodes—*Gib.*



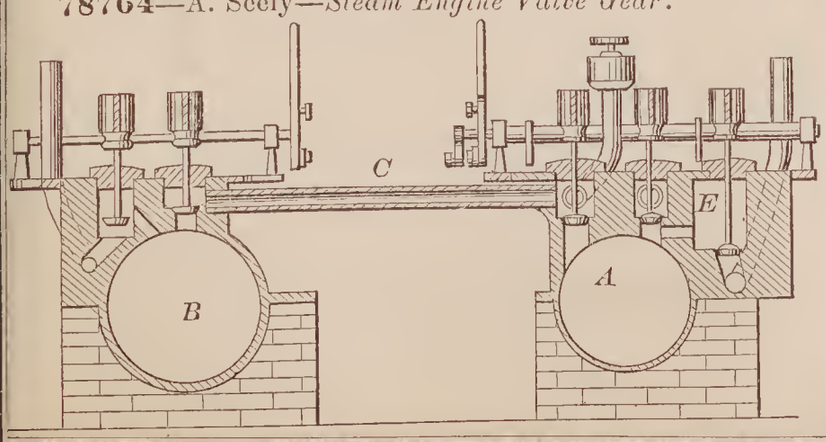
78762—R. Rice—*Wagon and Carriage Brake.*

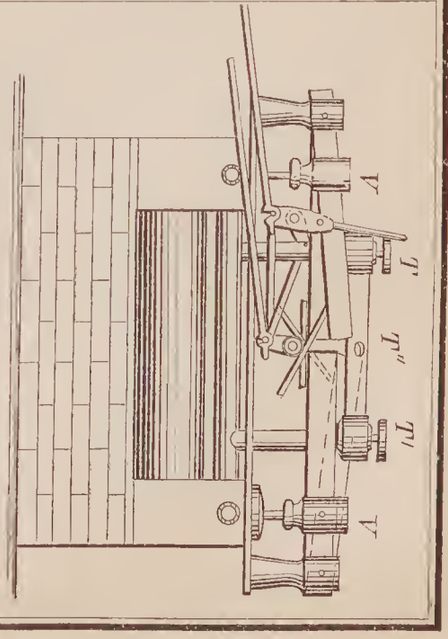


78763—T. H. Savery—*Expanding Pulley.*

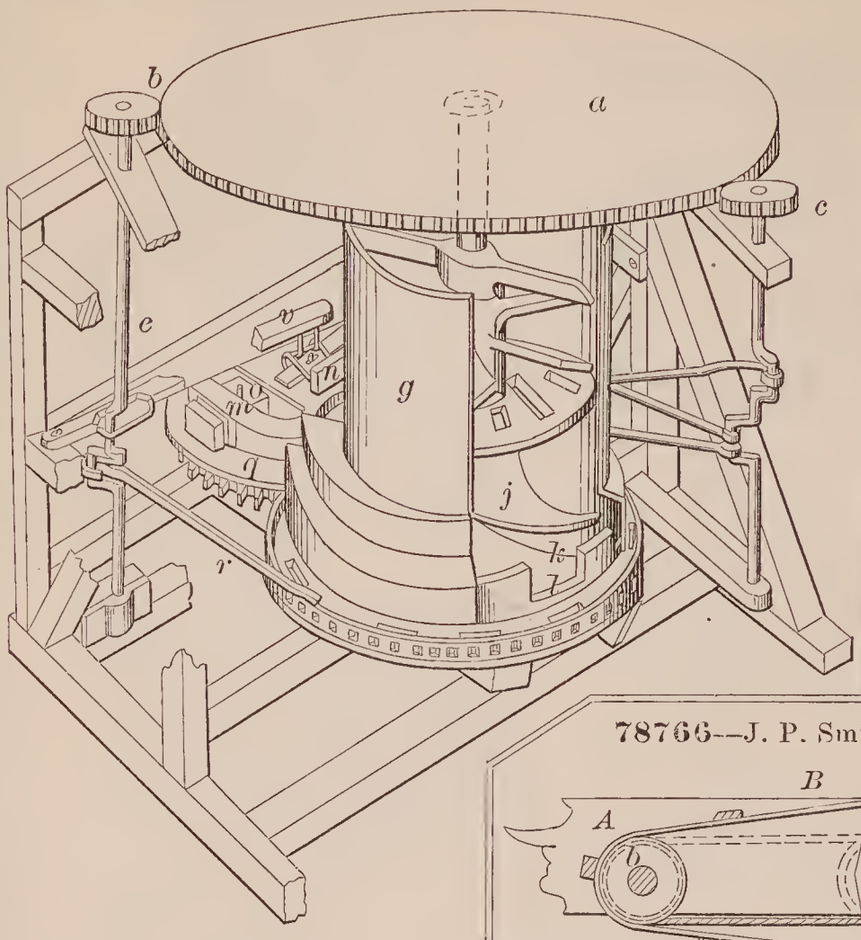


78764—A. Seely—*Steam Engine Valve Gear.*

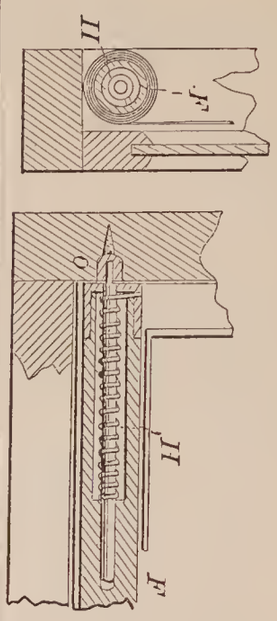




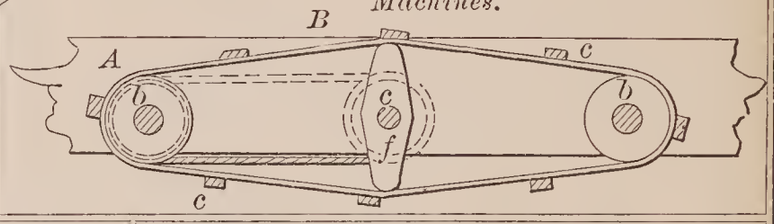
78765—D. Smith—*Brick Machine.*



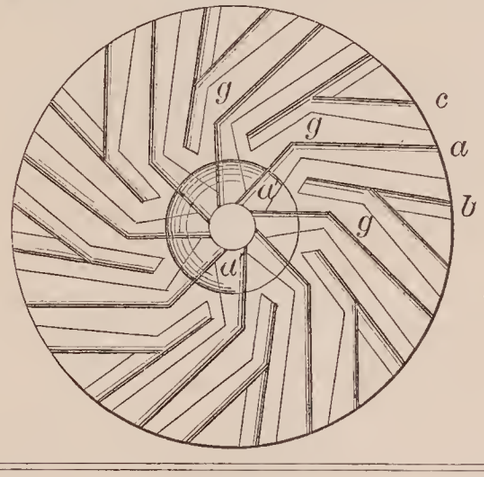
78767—E. Spaulding—*Mosquito Screen.*



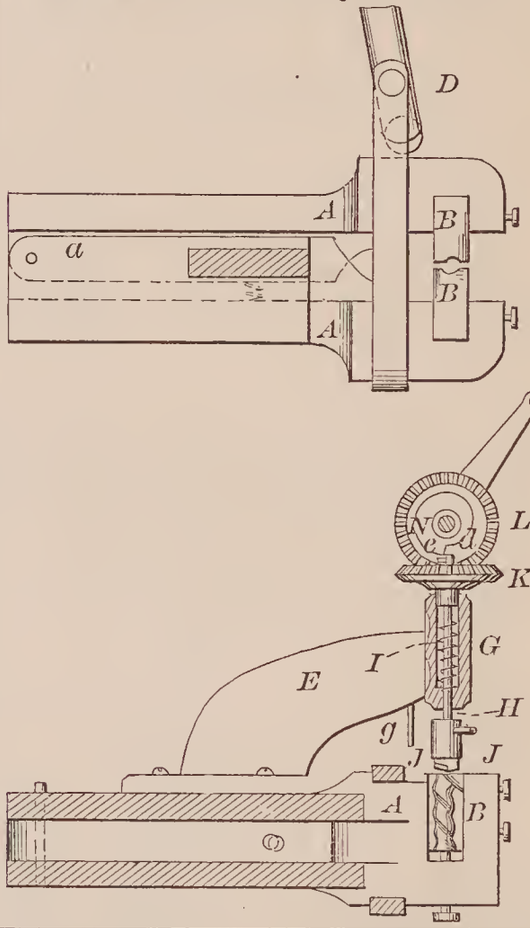
78766—J. P. Smith—*Shaker for Threshing Machines.*



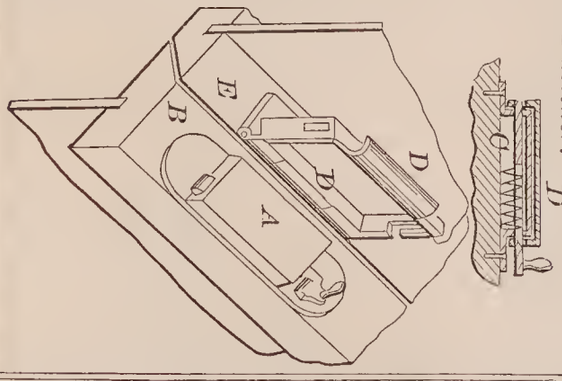
78768—H. L. Spencer—*Mill Stone Dress*



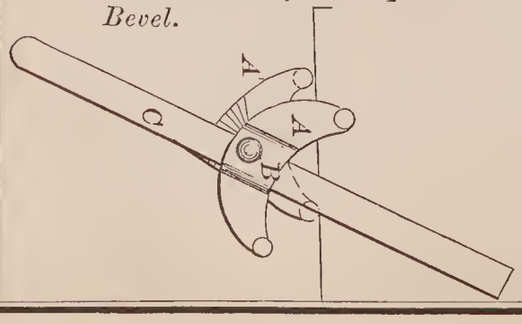
78769—J. Swan—*Auger and Bit.*



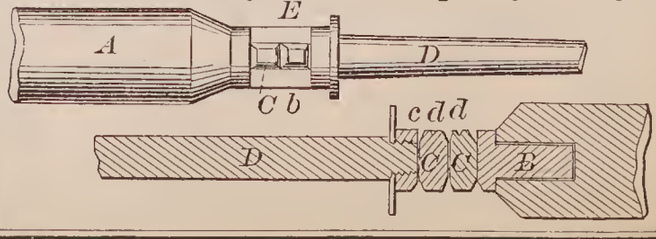
78772—R. Thomas—*Sash Fastener.*



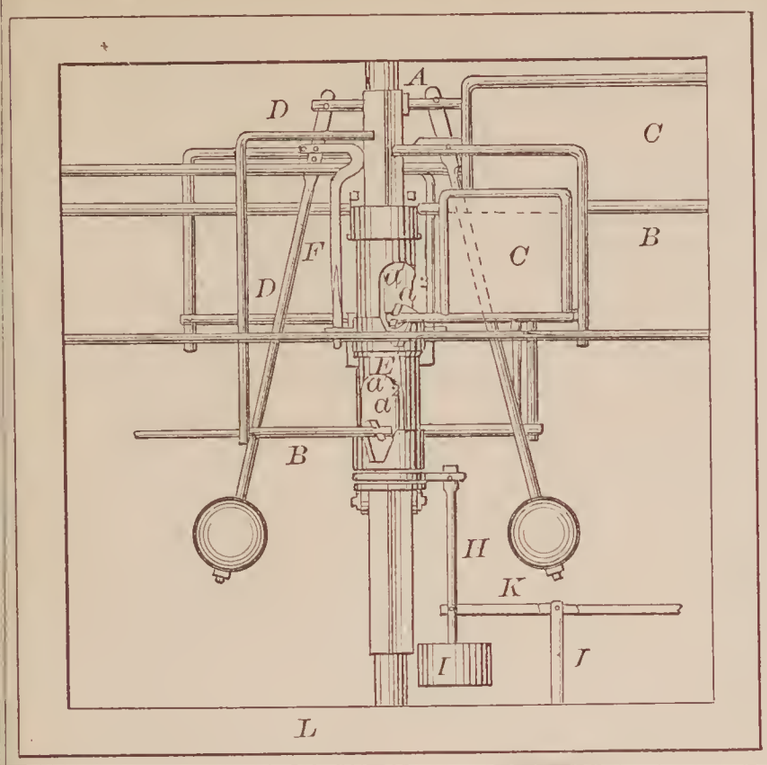
78770—H. G. Taylor—*Square and Bevel.*



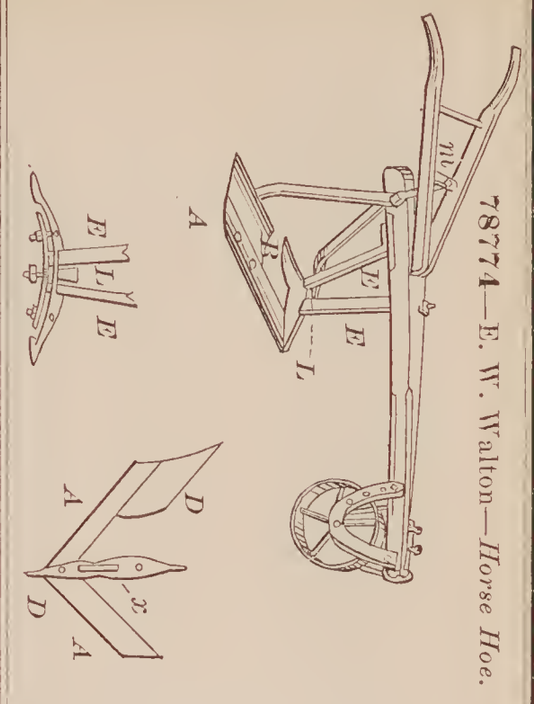
78771—A Thayer—*For Sharpening Cutlery.*



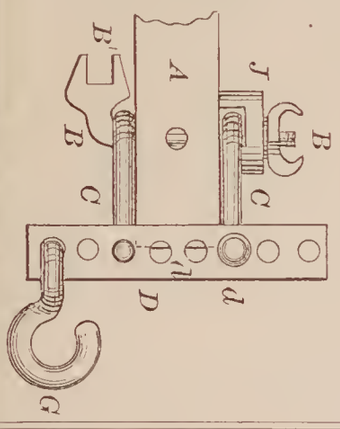
78773—G. J. Thorn—*Wind Mill.*



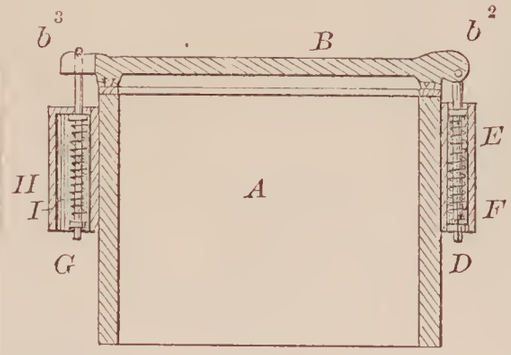
78774—E. W. Walton—*Horse Hoe.*



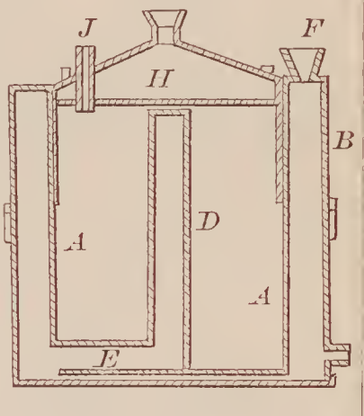
78775—T. P. Warren—*Cleris Iron.*



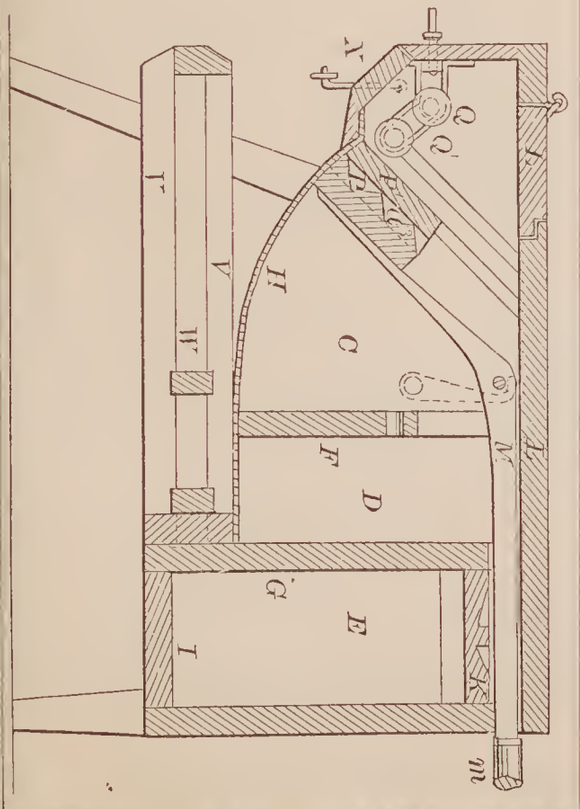
78776—W. Werts—*Car Axle Cap.*



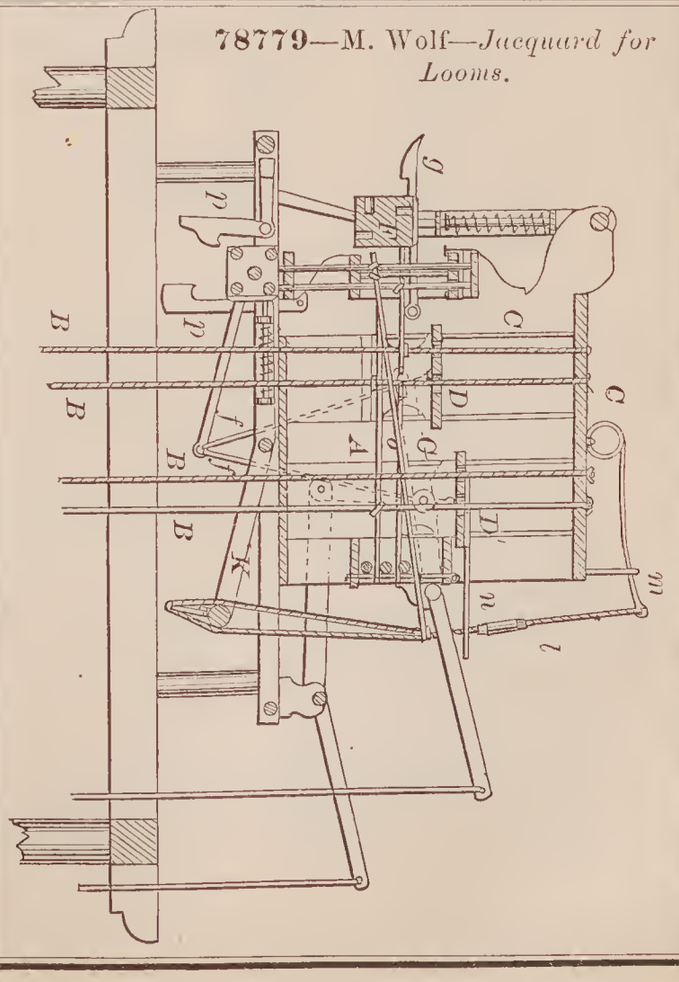
78777—White & King—*Refrigerating Milk Can.*



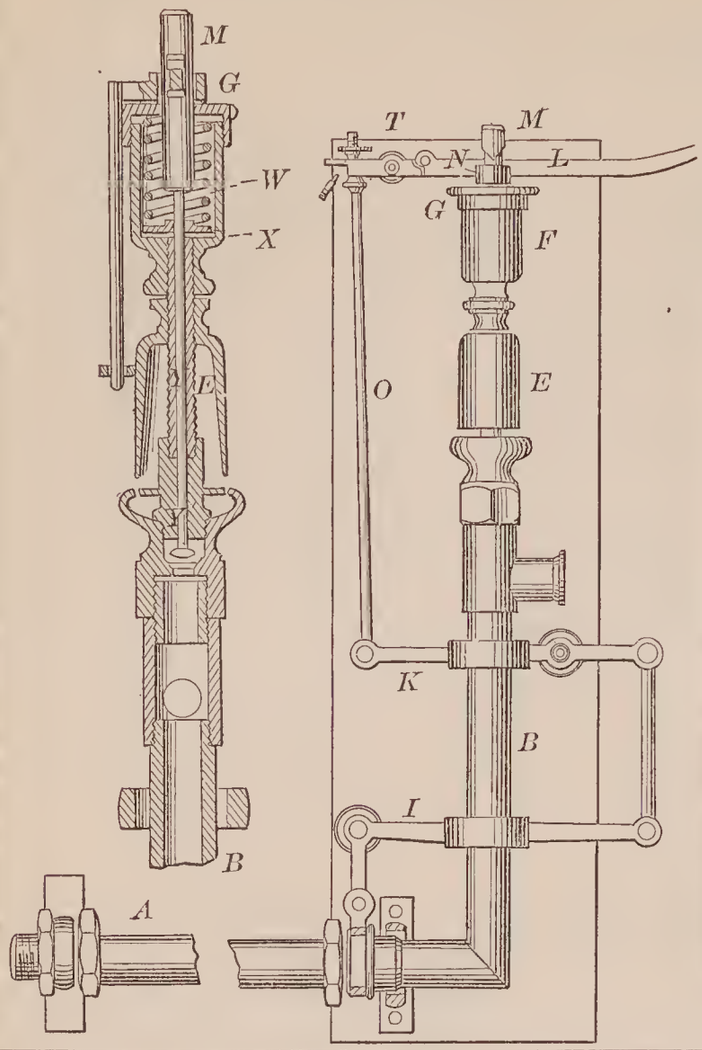
78778—Wilmans & Wolfe—*Dough Kneader.*



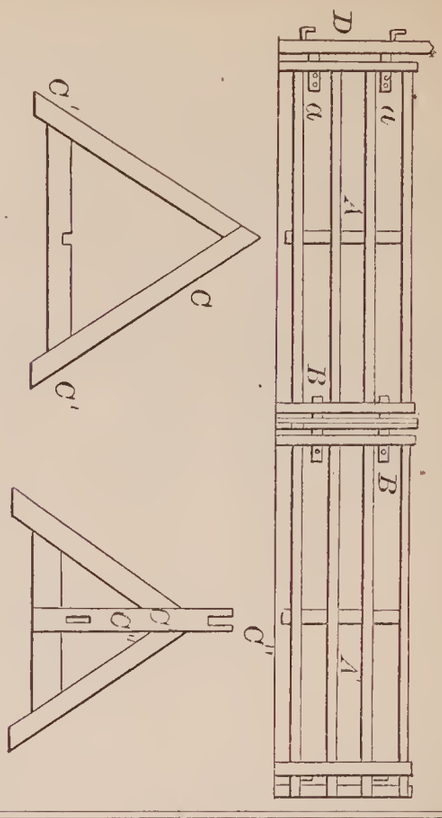
78779—M. Wolf—*Jacquard for Looms.*



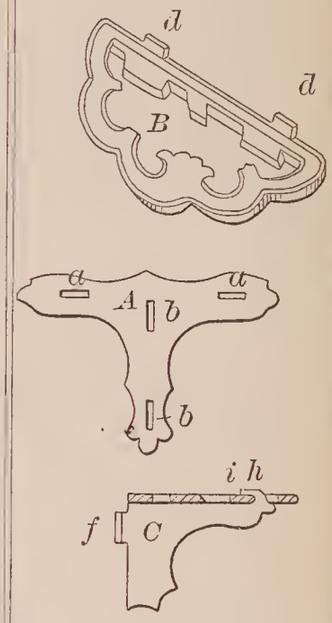
78781—T. P. Akers—*Boiler Indicator.*



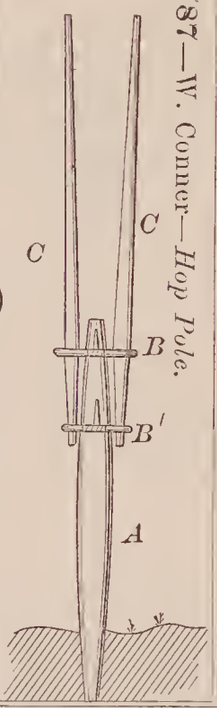
78783—L. W. Bosart—*Portable Fence.*



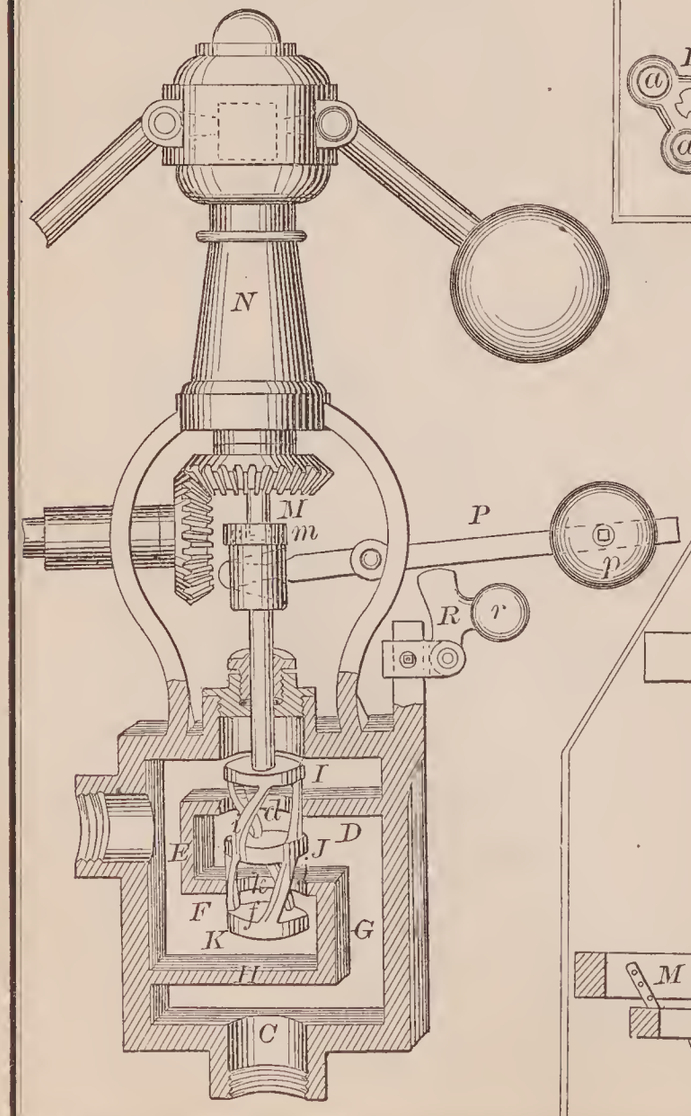
78784—P. Bradford—*Bracket.*



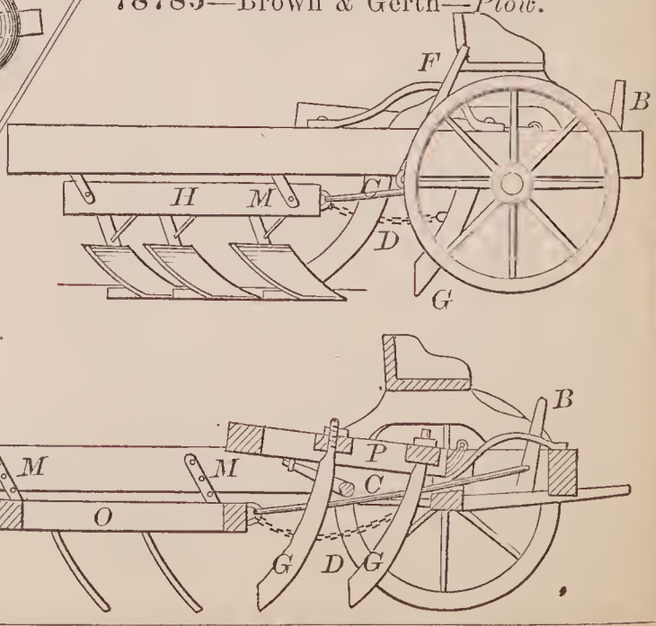
78787—W. Conner—*Hop Pole.*



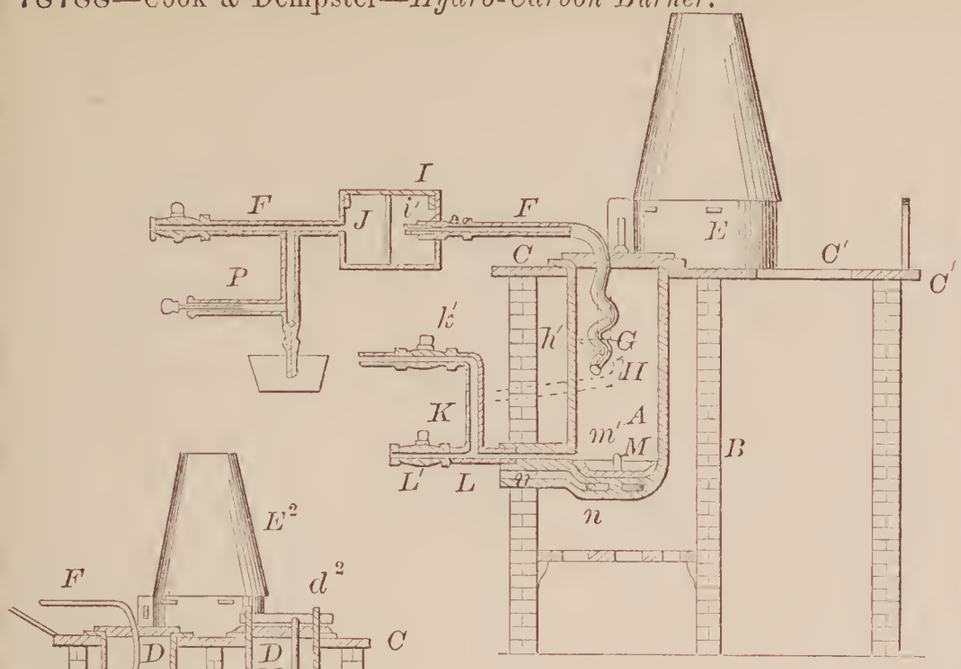
78782—W. Bellis—*Governor.*



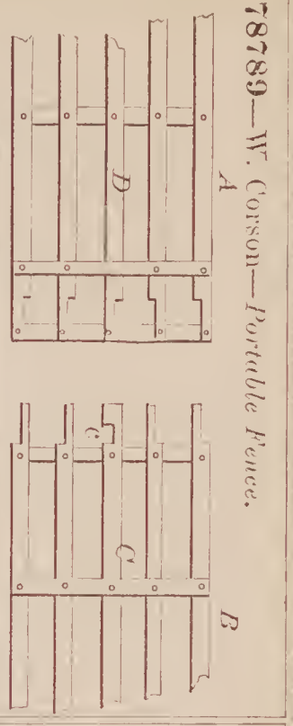
78785—Brown & Gerth—*Plow.*



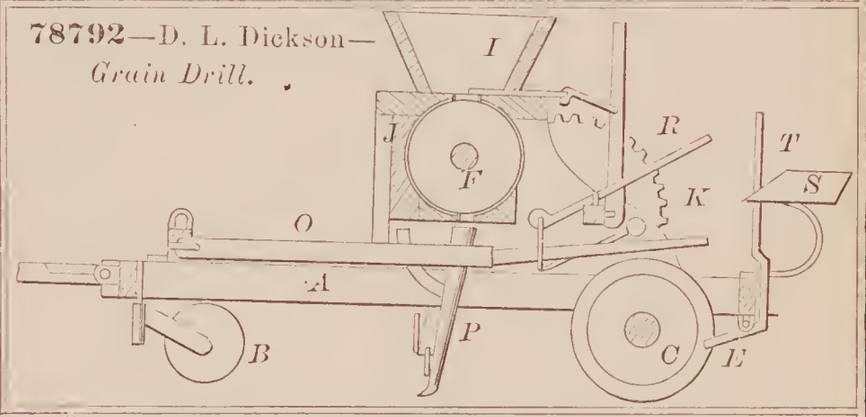
78788—Cook & Dempster—*Hydro-Carbon Burner.*



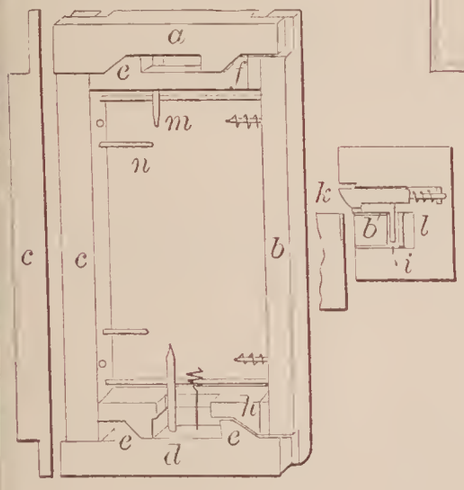
78789—W. Corson—*Portable Fence.*



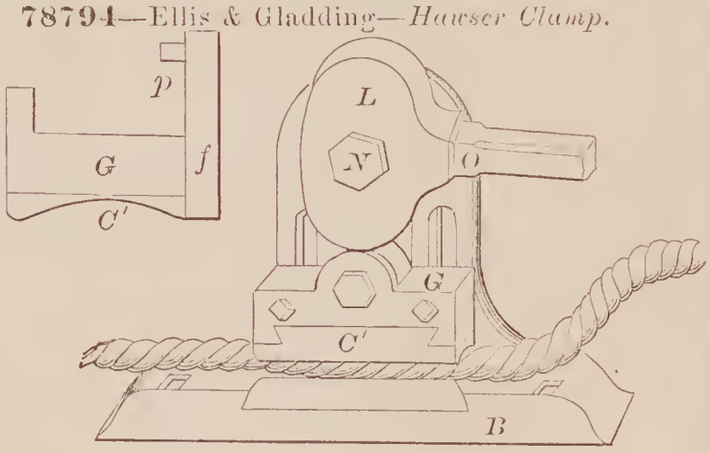
78792—D. L. Dickson—*Grain Drill.*



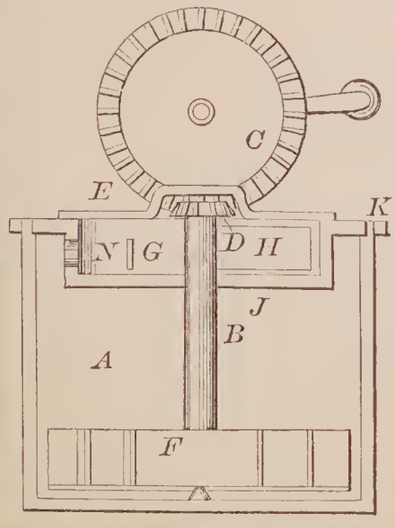
78790—J. Cross—*Weather Strip.*



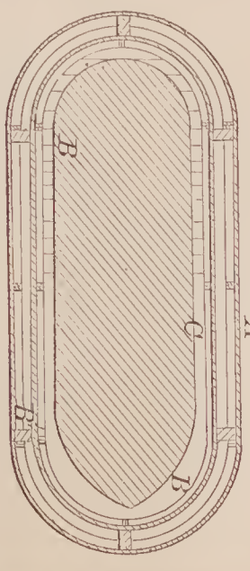
78794—Ellis & Gladding—*Hawser Clamp.*



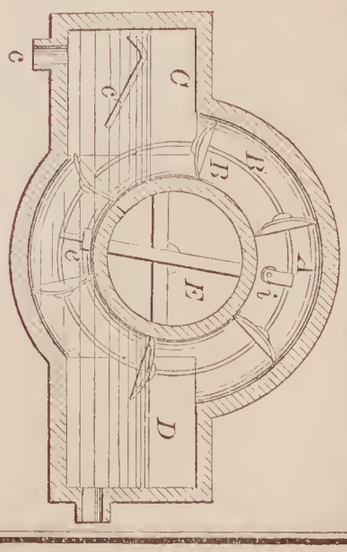
78791—S. T. Curtiss—*Churn.*



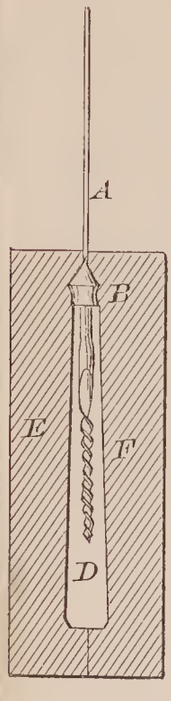
78793—J. B. Eads—*Sub-Aqueous Foundation.*



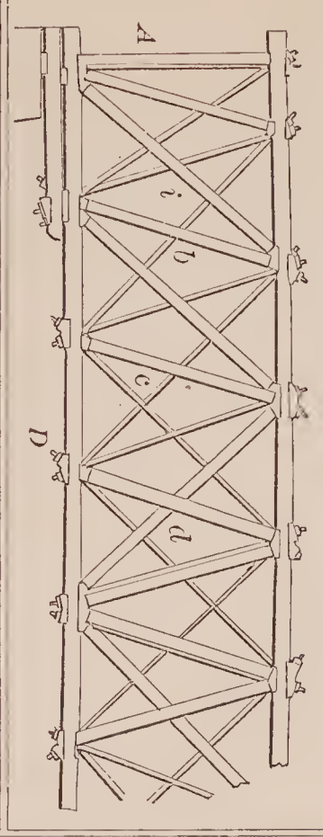
78795—H. Flad—*Water Meter.*



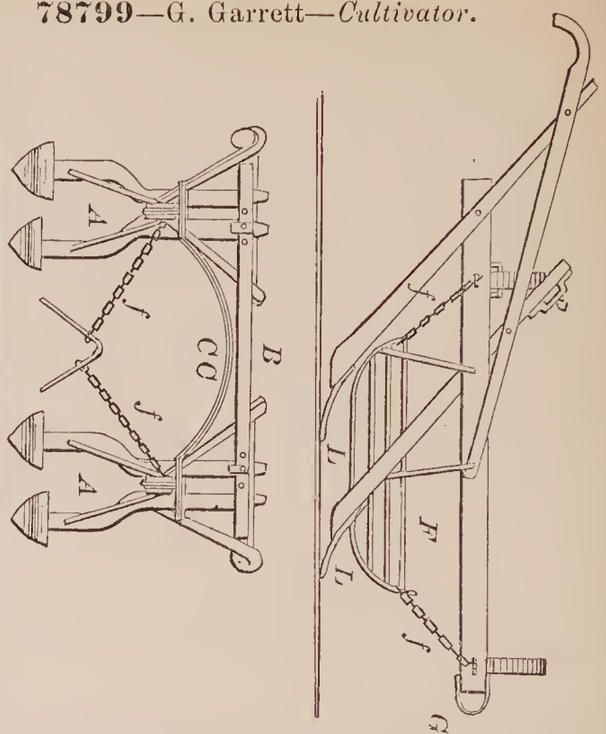
78796—J. Flood—*Attaching Handles to Cutlery.*



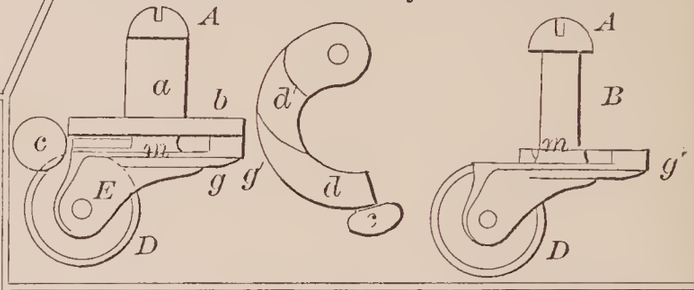
78797—J. Foreman—*Truss Framed Bridge.*



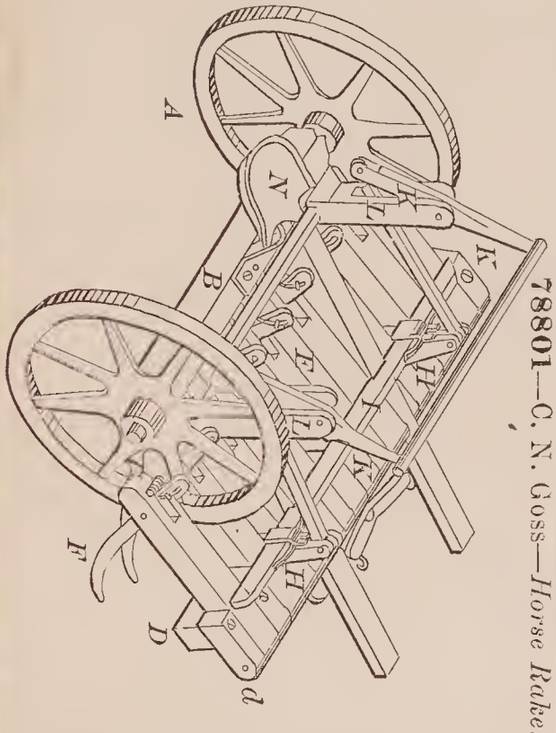
78799—G. Garrett—*Cultivator.*



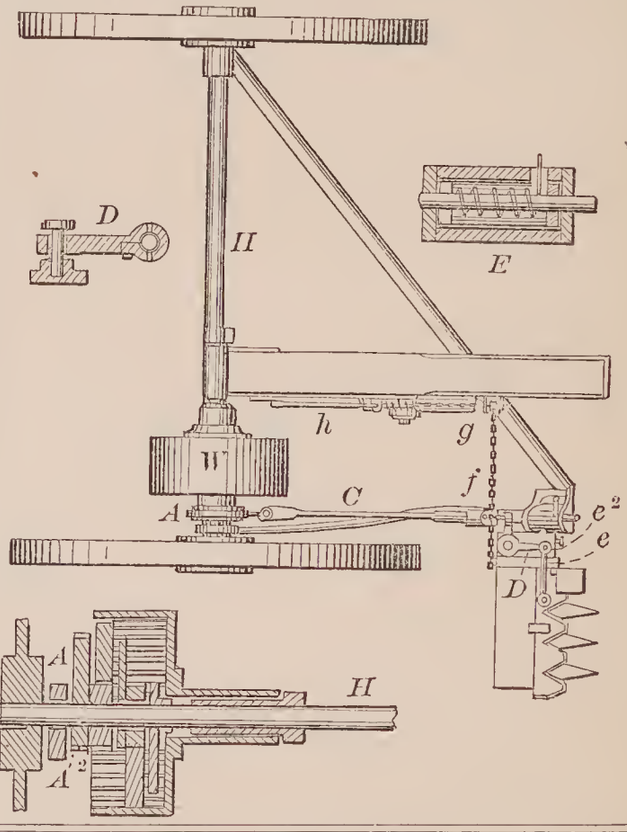
78798—E. E. Furney—*Furniture Caster.*



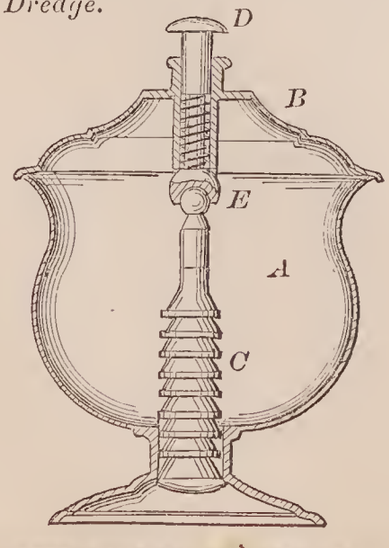
78801—C. N. Goss—*Horse Rake.*



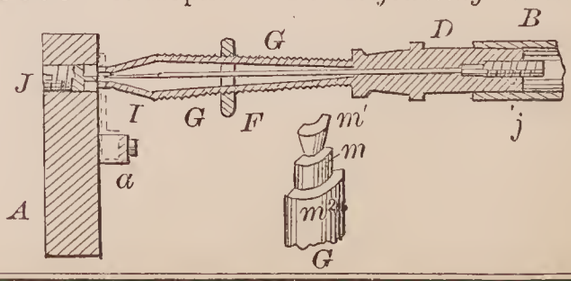
78800—W. F. Goodwin—*Harvester.*



78805—G. Jones—*Sprinkler and Dredge.*

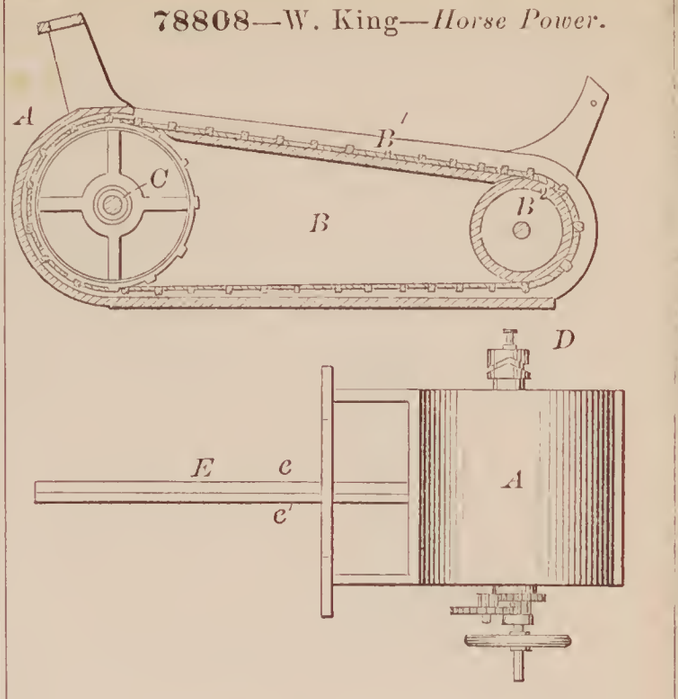


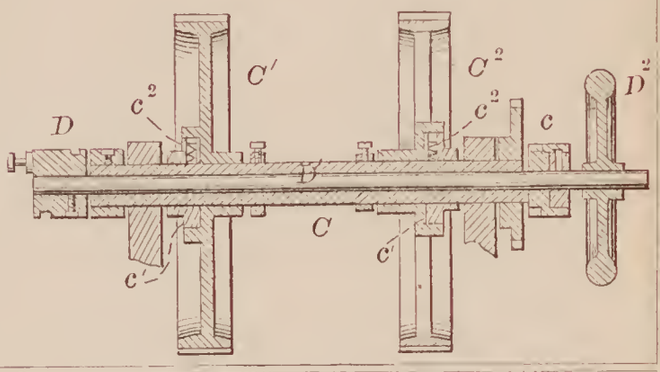
78803—C. Hopkins—*For Rejeweling Watches.*



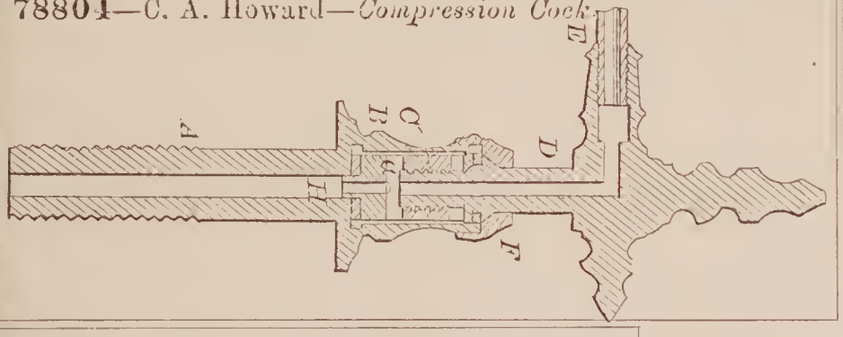
78802—I. C. Hatch—*Brick Drying Apparatus.*

78808—W. King—*Horse Power.*

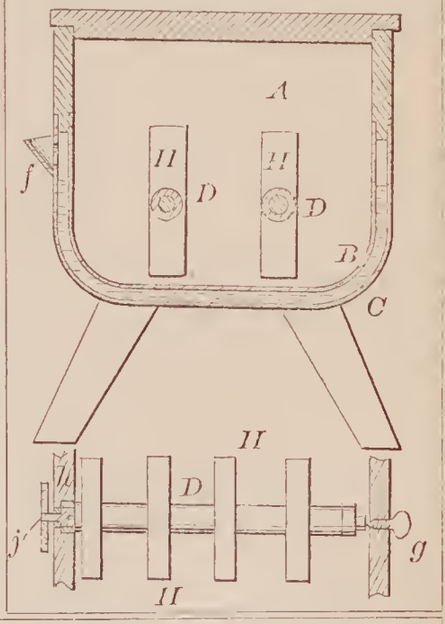




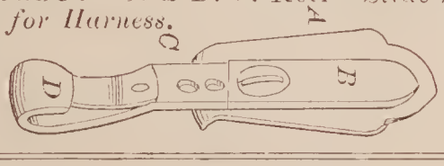
78804—C. A. Howard—*Compression Cock.*



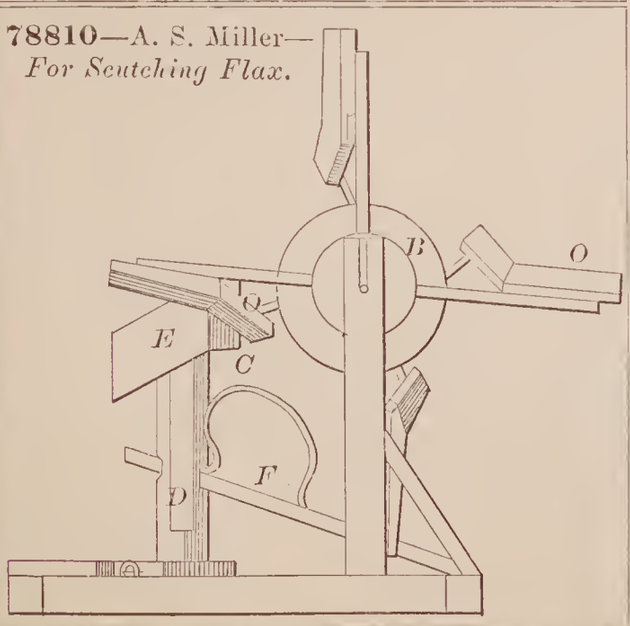
78809—J. J. McLane—*Churn.*



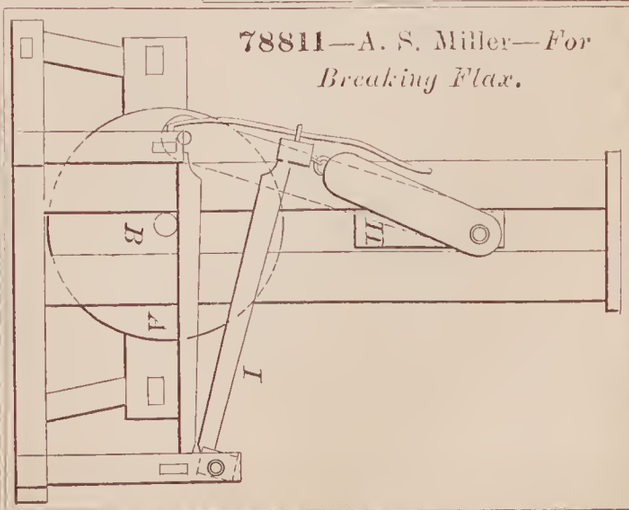
78807—J. & D. C. Kerr—*Slide Snap for Harness.*



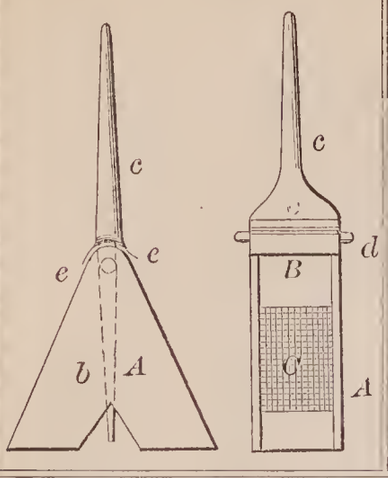
78810—A. S. Miller—*For Scutching Flax.*



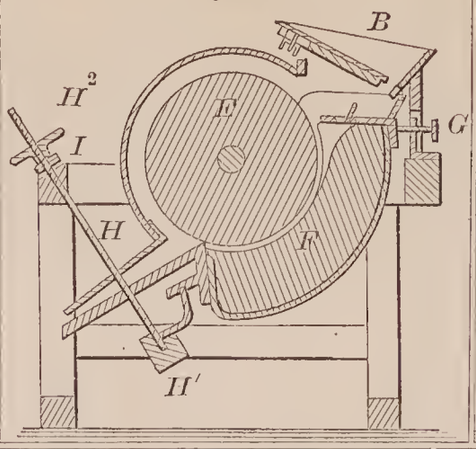
78811—A. S. Miller—*For Breaking Flax.*



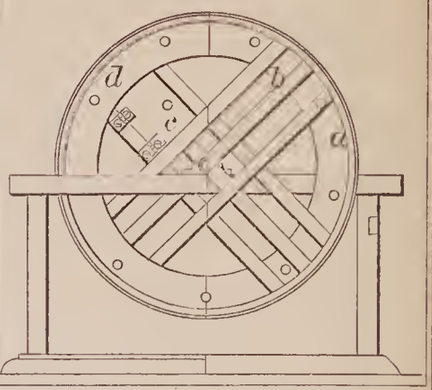
78812—S. Mills—*Churn.*



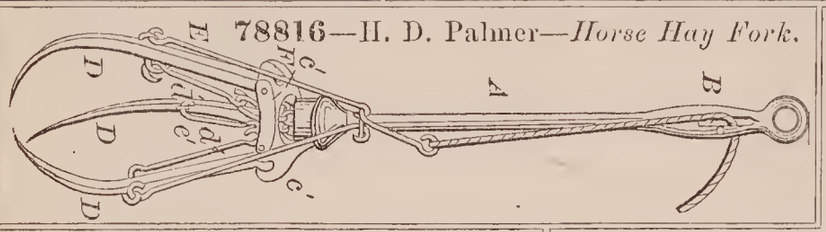
78814—J. P. Moore—*Grinding Mill.*



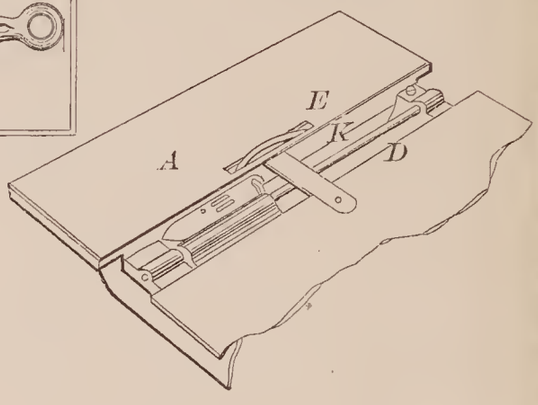
78815—H. Muller—*For Stuffing Leather.*

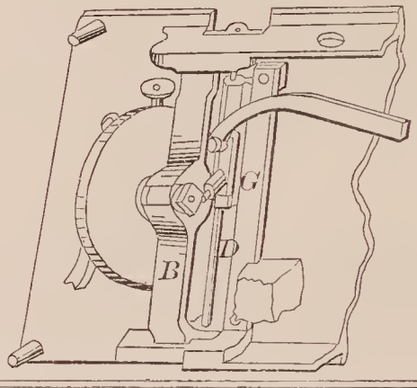


78816—H. D. Palmer—*Horse Hay Fork.*

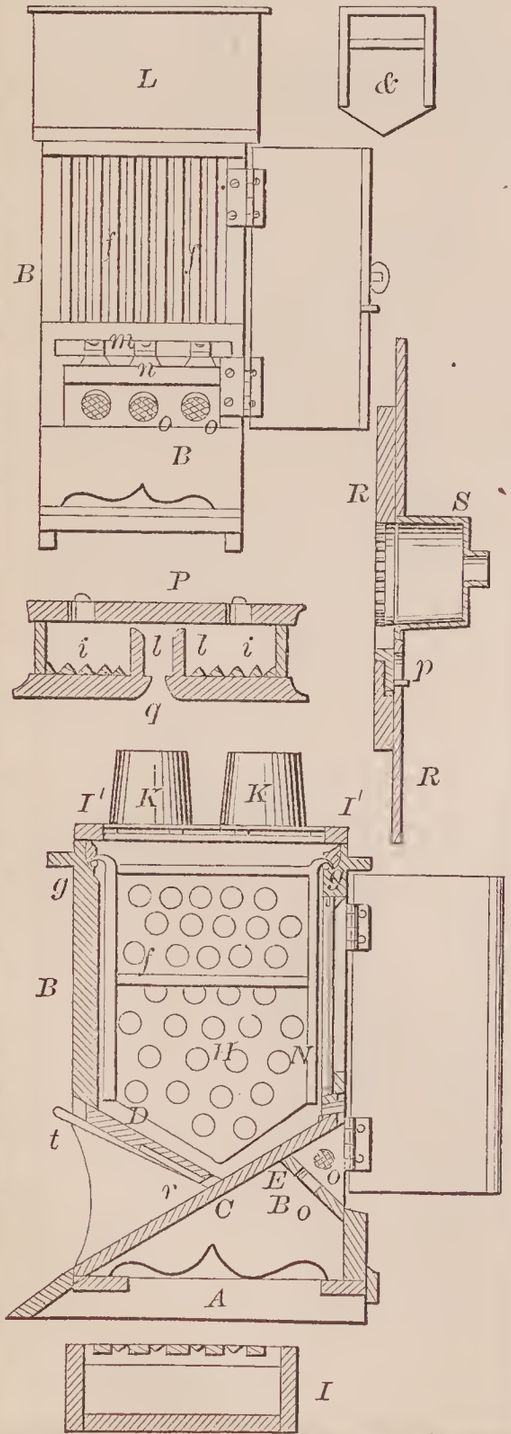


78817—C. Parham—*Sewing Machine.*

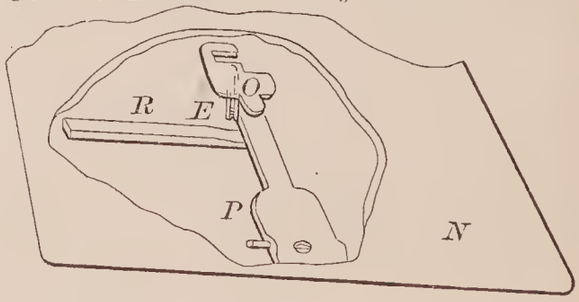


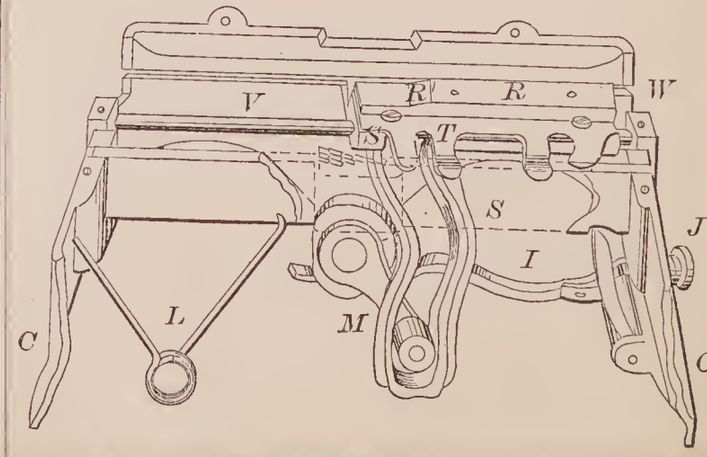


78813—F. Moore—*Beehive.*

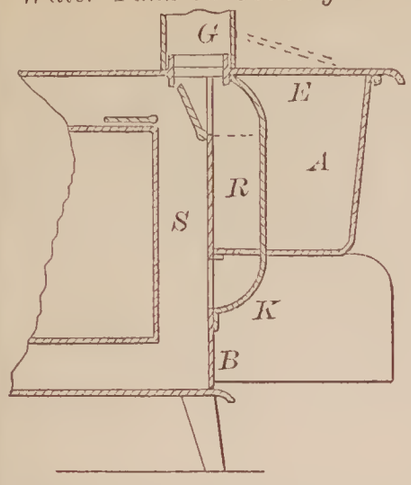


78818—C. Parham—*Sewing Machine.*

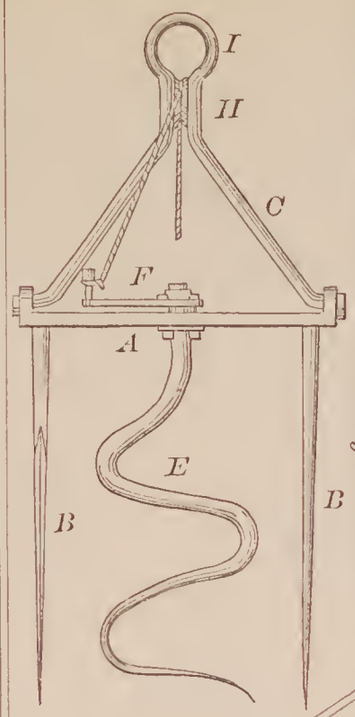




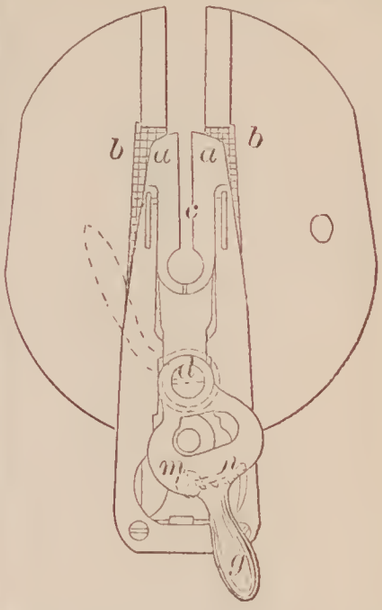
78819—D. E. Paris—*Hot Water Tank on Cooking Stoves.*



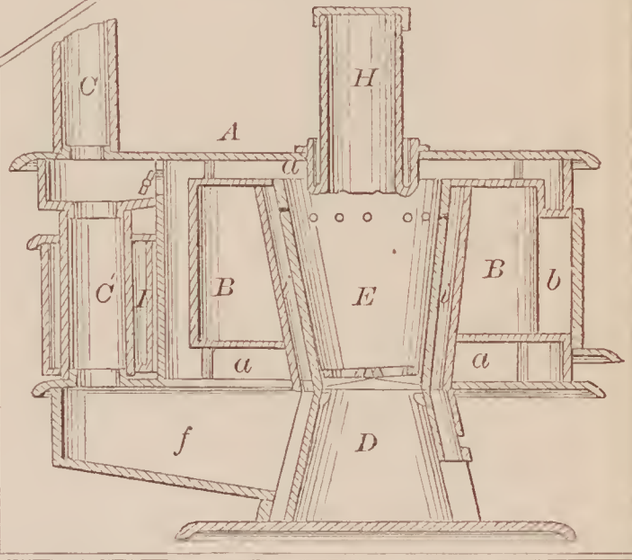
78820—E. M. Parker—*Horse Hay Fork.*



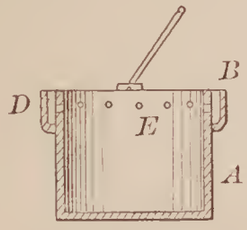
78821—R. H. Peabody—*Button Hole Stitching Machine.*



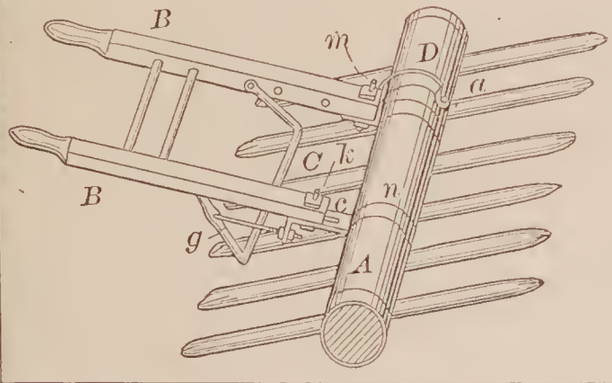
78822—H. Pease—*Cook Stove.*



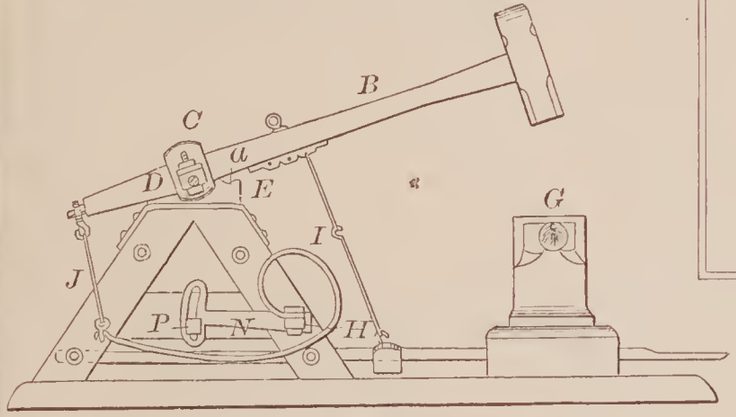
78823—H. H. Pember—*Kettle.*



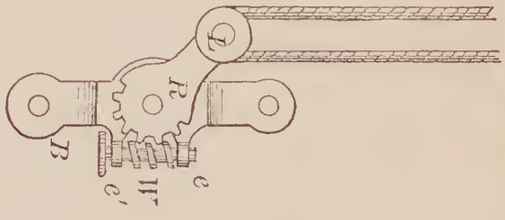
78824—Pennington & Woodfill—*Horse Rake.*



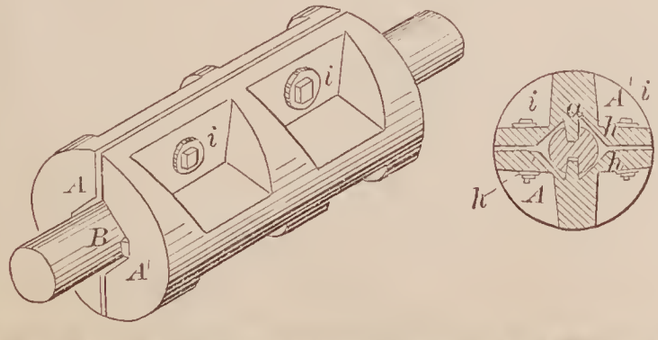
78825—Peterson & Jones—*Forging Apparatus.*



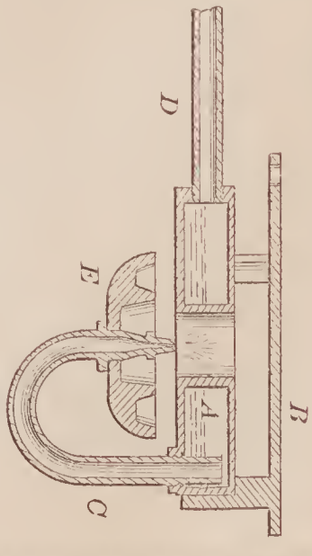
78826—G. T. Pillings—*Shade Fixture.*



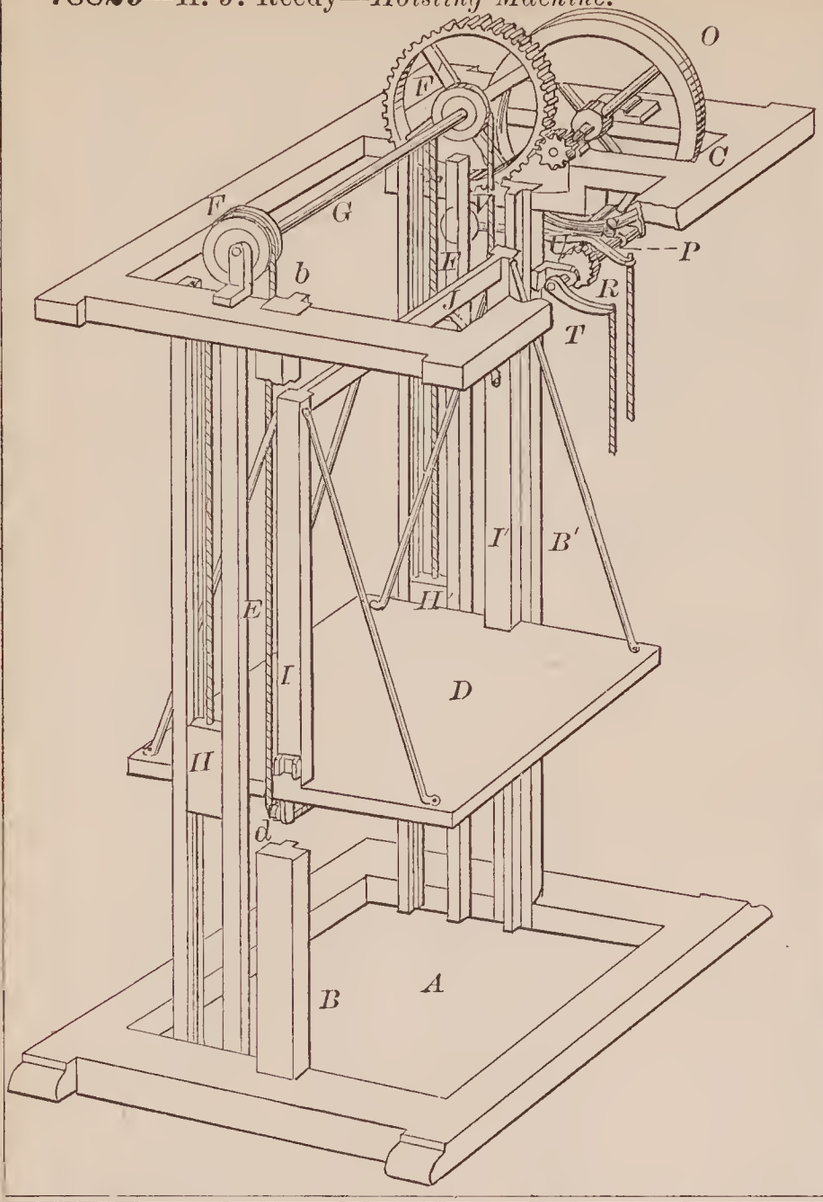
78827—T. W. Porter—*Shaft Coupling.*



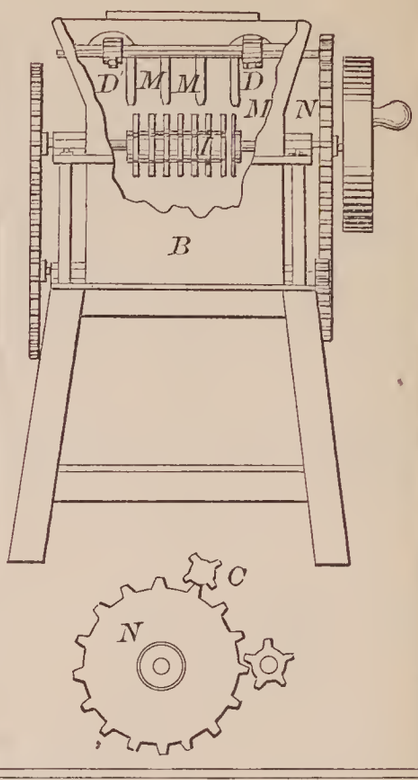
78828—D. W. Ranke—*Gas Generator.*



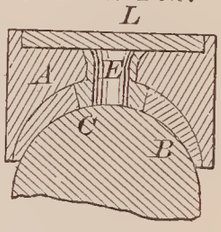
78829—H. J. Reedy—*Hoisting Machine.*



78830—N. Richardsen—*Ice Crusher.*

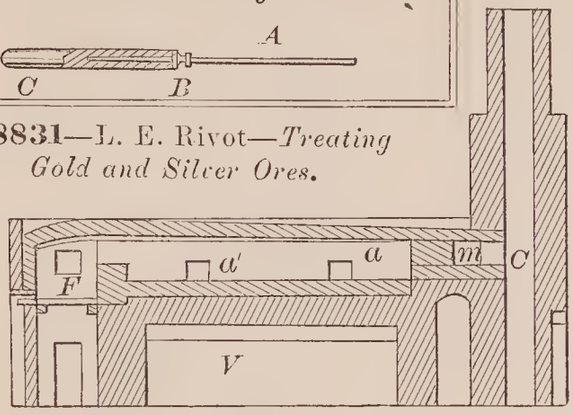


78832—J. T. Robinett—*Journal Box.*

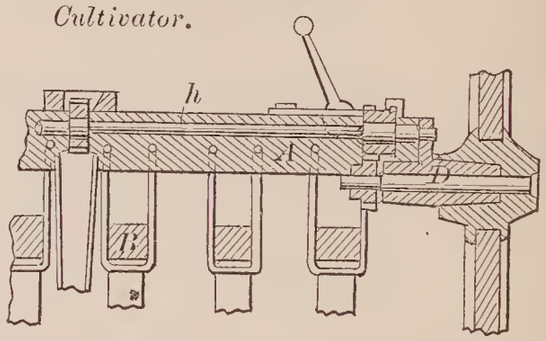


78834—W. Sanderson—*Handle of Table Cutlery.*

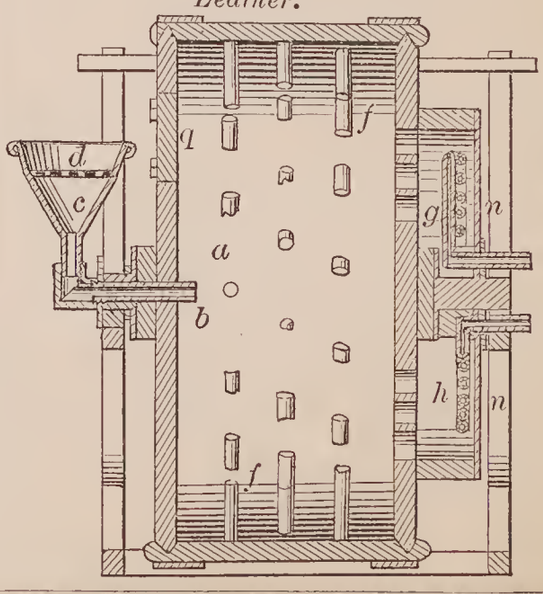
78831—L. E. Rivot—*Treating Gold and Silver Ores.*



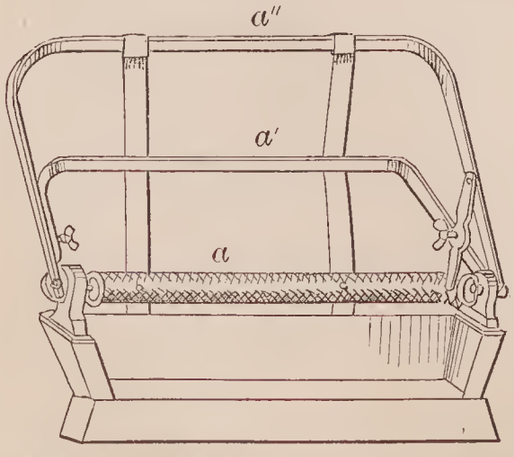
78833—J. S. & I. Rowell—*Seeder and Cultivator.*



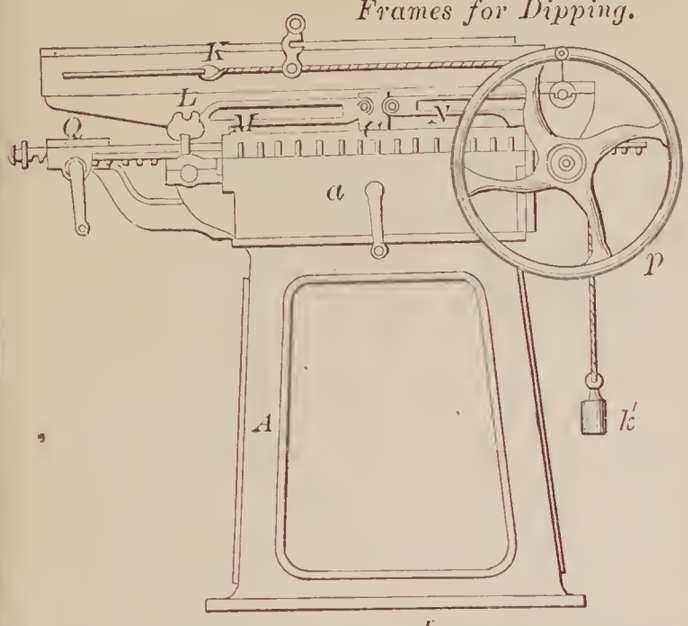
78835—J. W. Schayer—*For Stuffing Leather.*

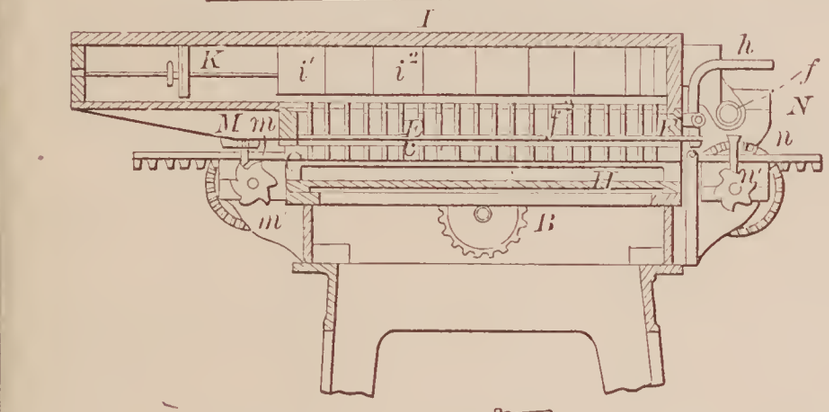


78836—E. S. Scripture—*Carriage Top*

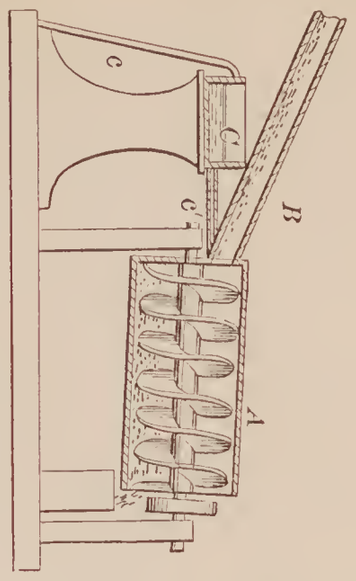


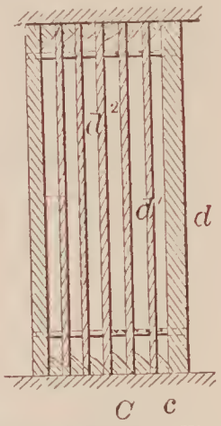
78837—G. Sebold—*For Placing Friction Matches in Frames for Dipping.*

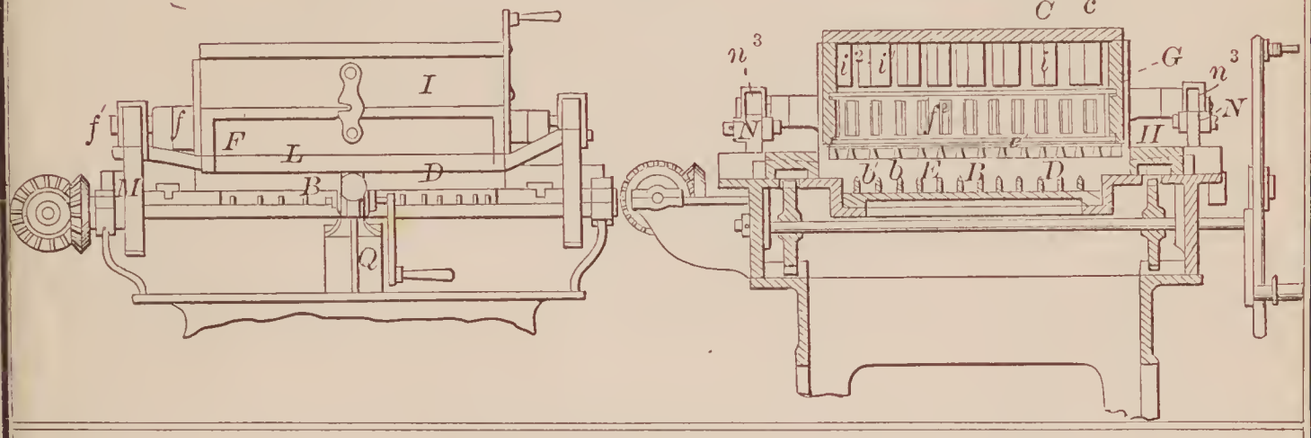




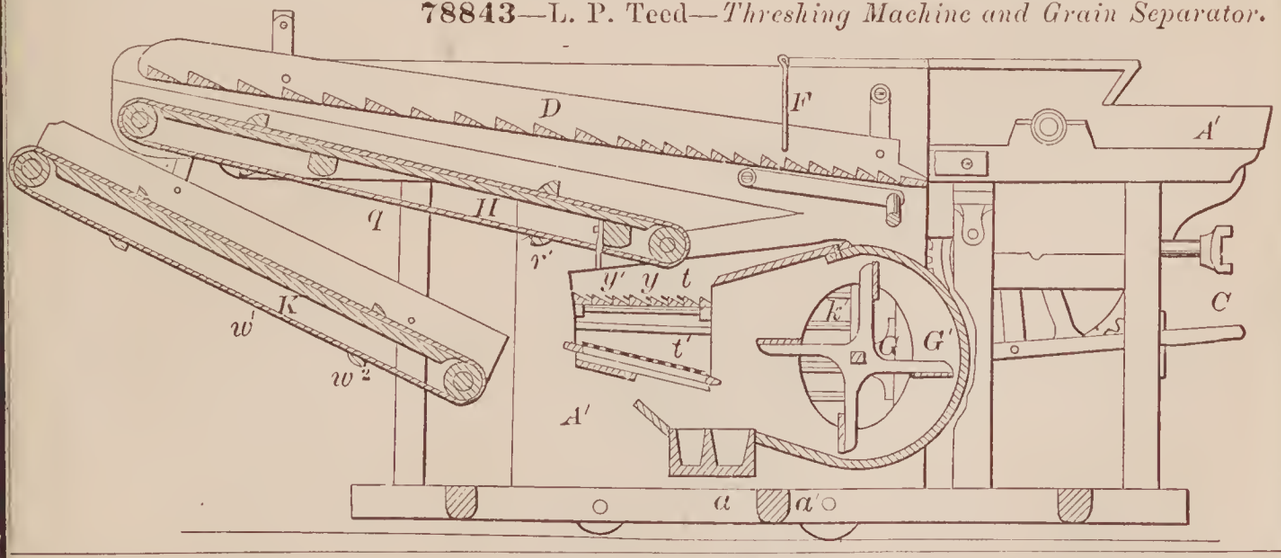
78838—I. Shellabarger—*For Dampening Grain.*



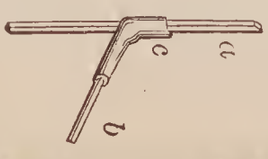




78843—L. P. Teed—*Threshing Machine and Grain Separator.*

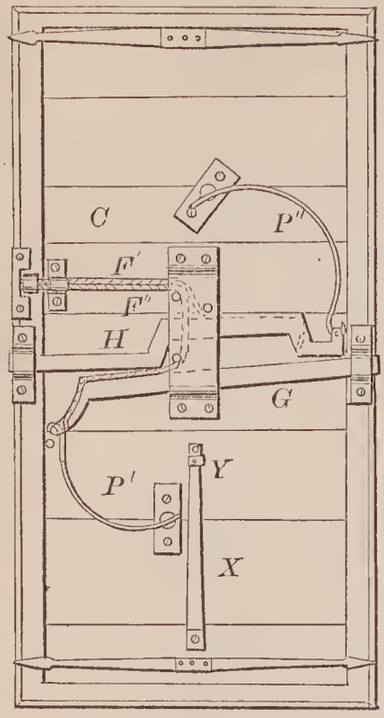


78839—J. A. Simpson—*Umbrella and Parasol.*

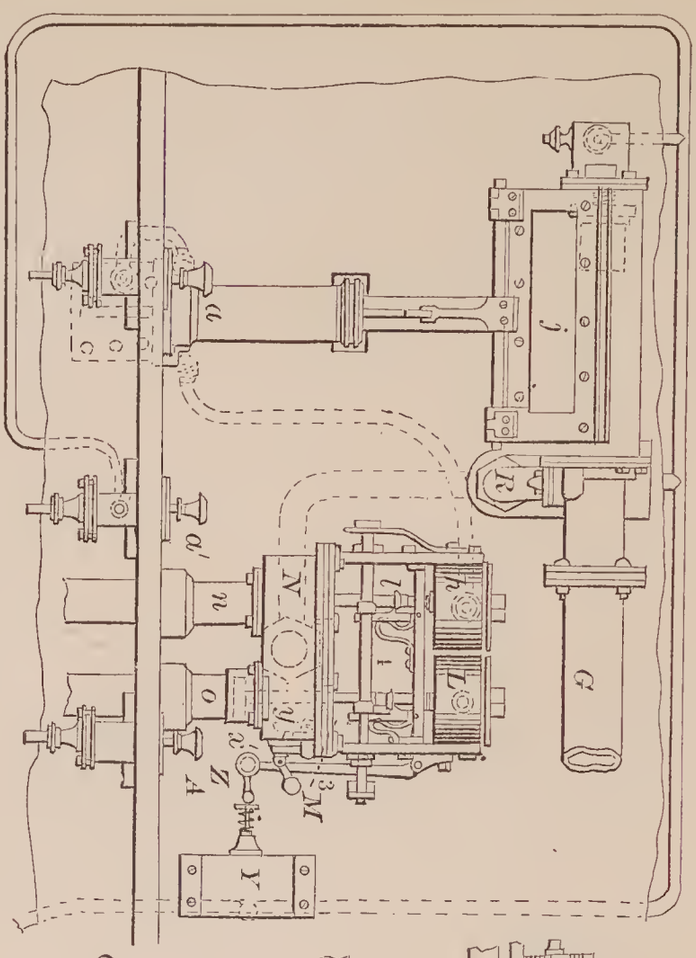


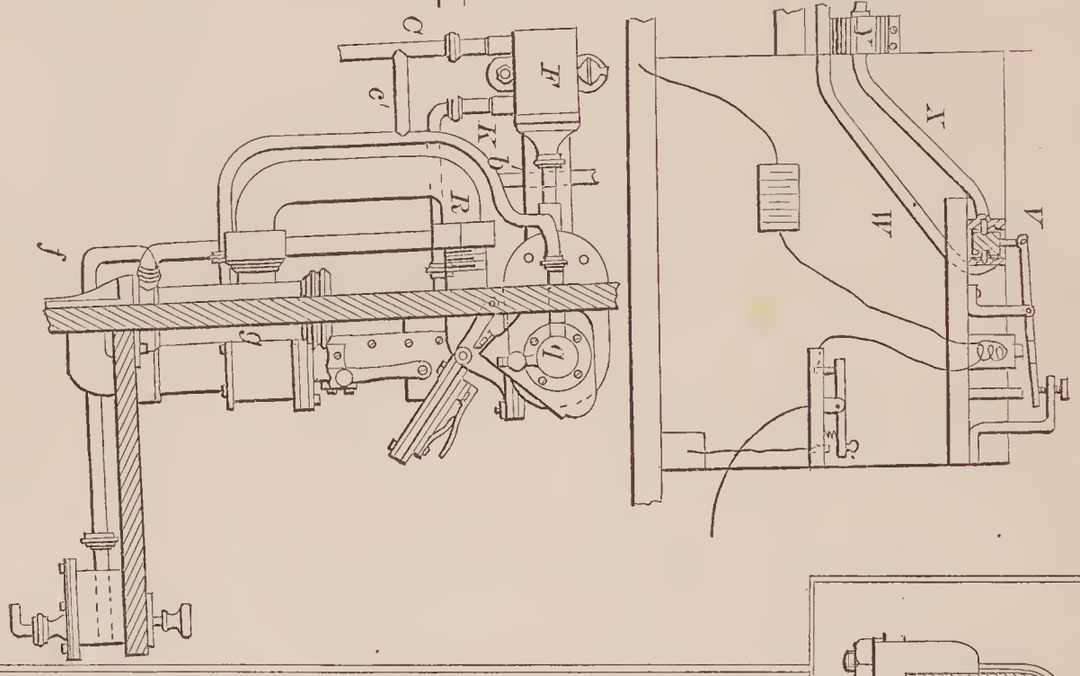
78844—E. H. Tobey—*For Raising and Lowering Windows.*

78841—J. H. Smiley—*Wagon Brake.*

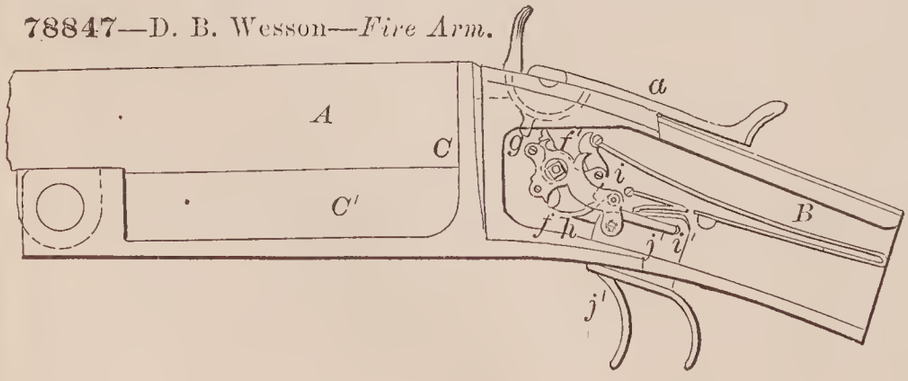


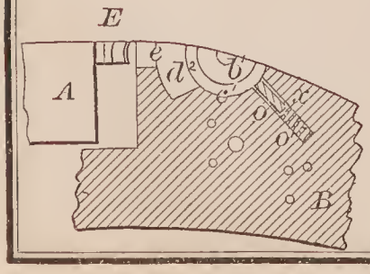
78845—C. F. Varley—*For Transmitting Dispatches.*

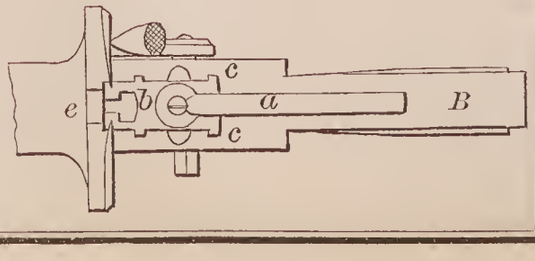




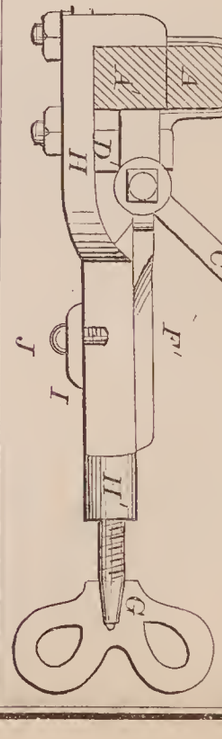
78847—D. B. Wesson—*Fire Arm.*



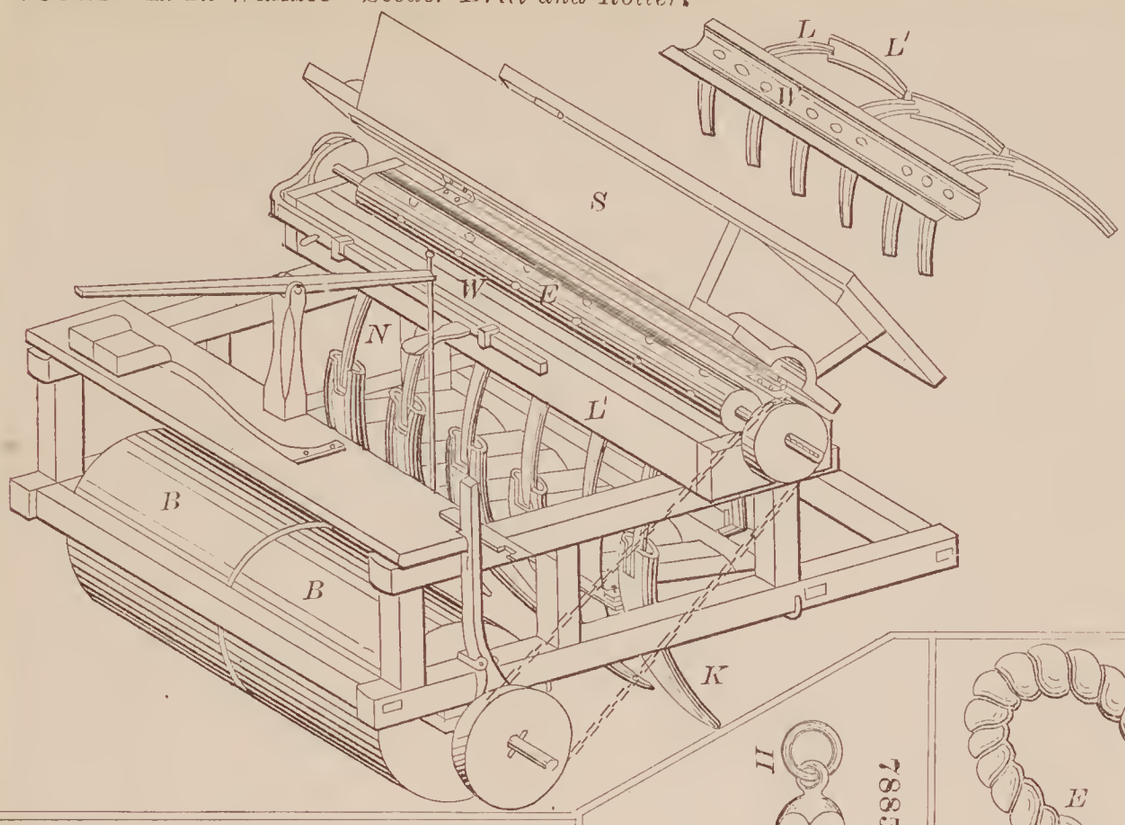




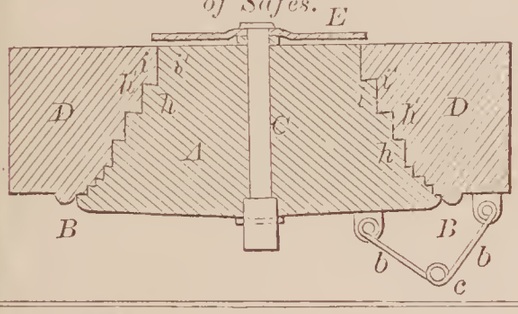
78848—J. Whitlock—*Shackle Jack.*



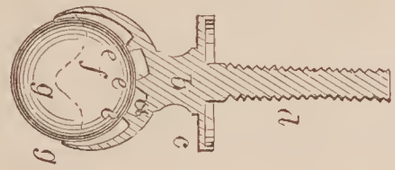
78846—L. R. Wallace—*Seeder Drill and Roller.*



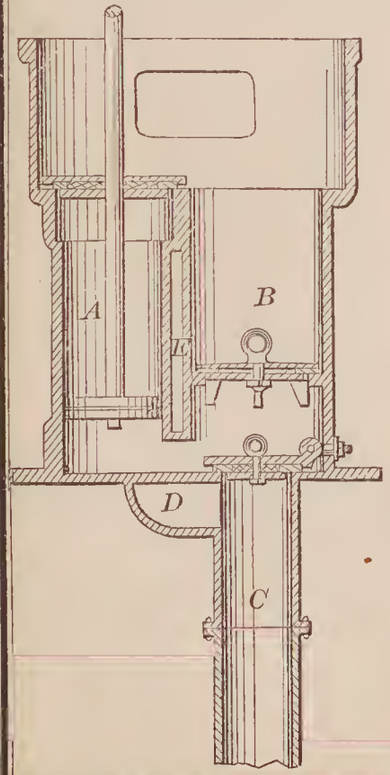
78851—F. H. Williams—*Construction of Safes.*



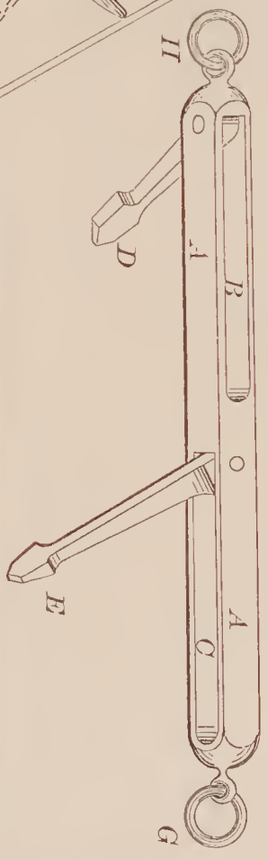
78850—L. Wilkinson—*Ball Caster.*



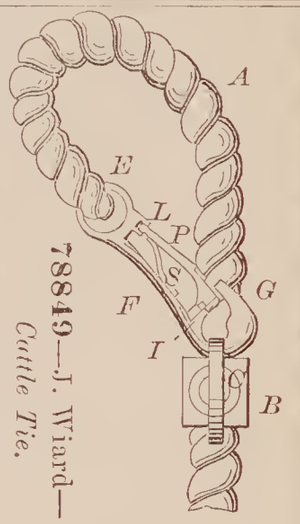
78854—W Adair—*Pump.*



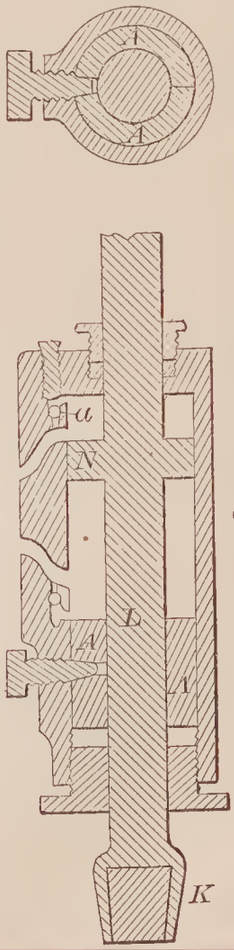
78852—F. Wittram—*Anchor.*



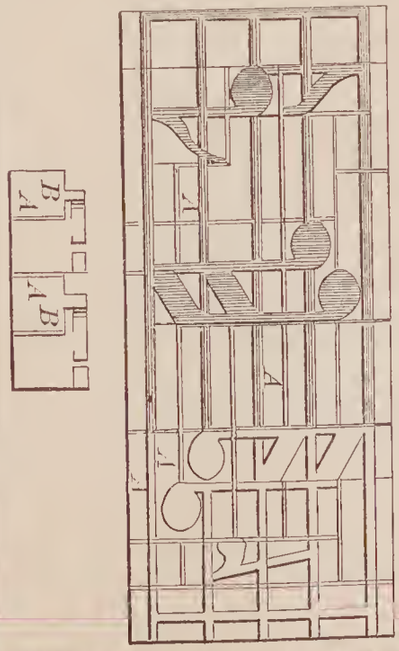
78849—J. Wiard—*Cattle Tie.*



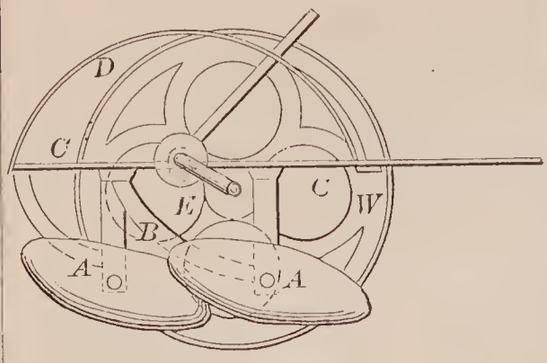
78853—Wood & Robinson—*Steam Engine.*



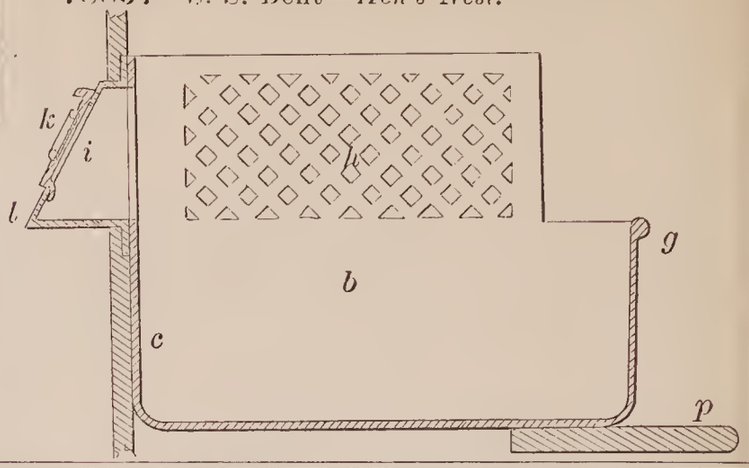
78855—E. L. Balch—*Music Type.*



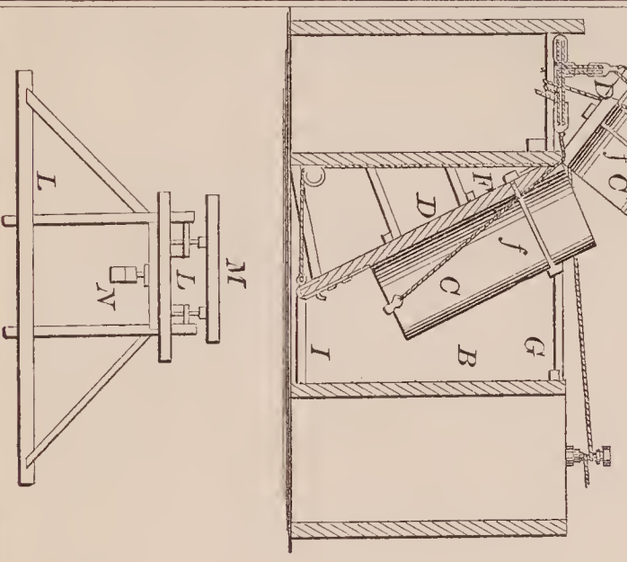
78856—L. W. Beal—*Plow.*



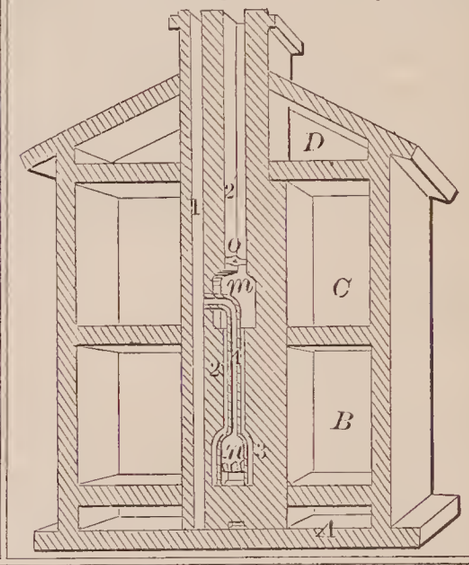
78857—S. S. Bent—*Hen's Nest.*



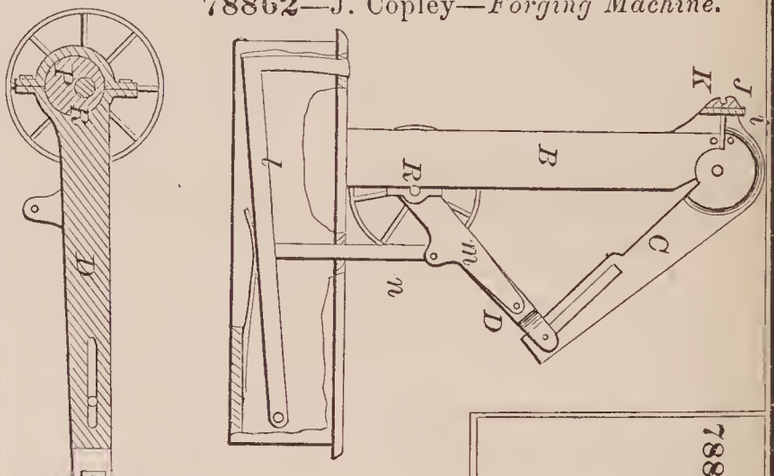
78860—G. R. Bramhall—*Lowering Cylinders.*



78859—T. Boyd—*Heating Building.*

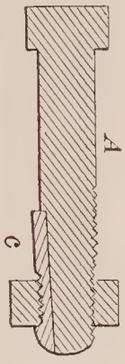


78862—J. Copley—*Forging Machine.*

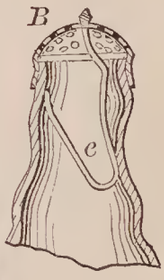


78861—D. W. Colburn—*Wrench.*

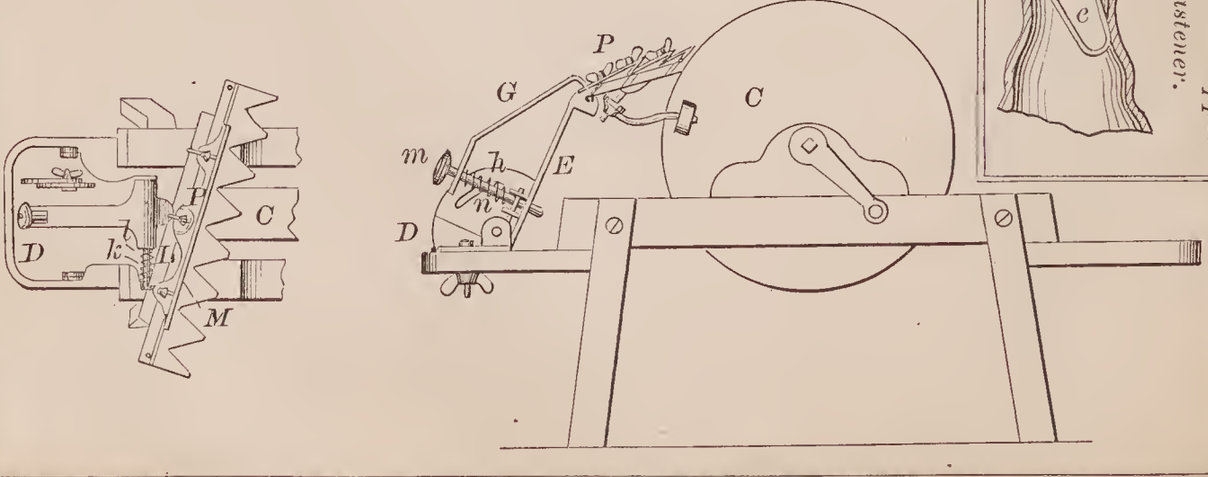
78864—D. Cumming, Jr.—*Locking Nuts.*



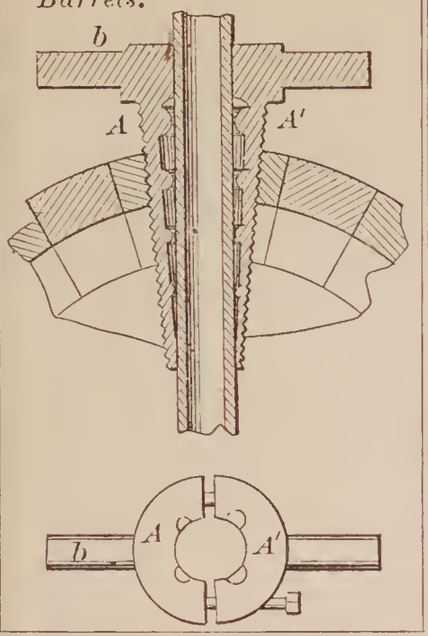
78858—J. Bounds—*Pepper Box Top Fastener.*



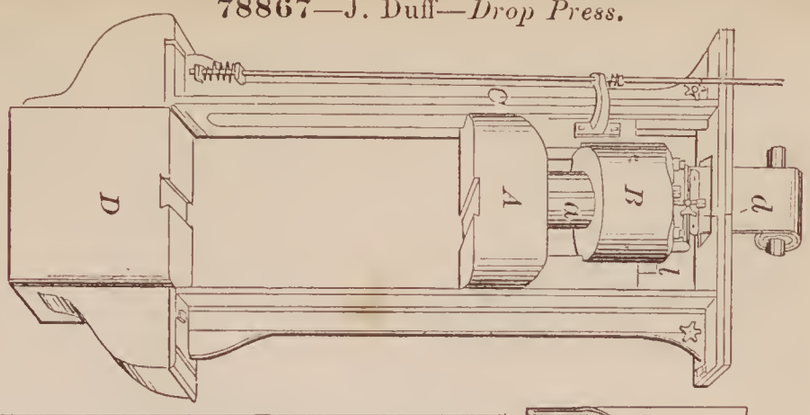
78863—M. C. Cronk—*For Grinding Mowing Machine Knives.*



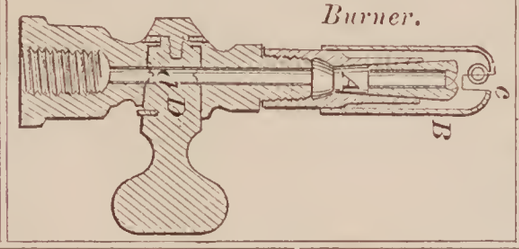
78865—J. F. de Navarro—*For Attaching Pumps to Barrels.*

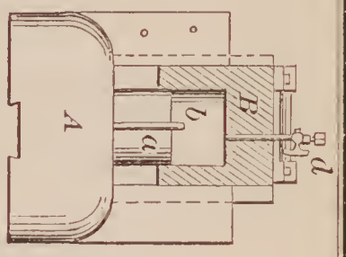


78867—J. Duff—*Drop Press.*

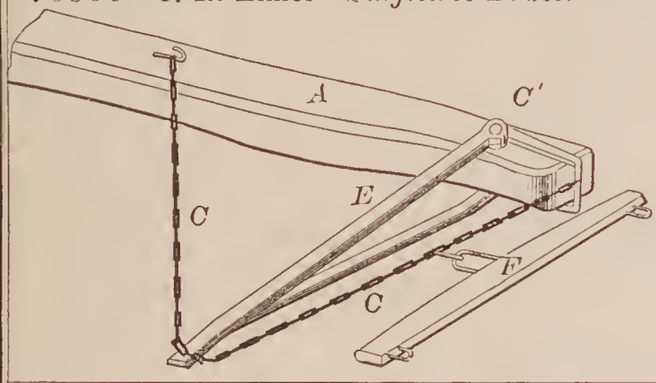


78871—S. Gardiner, Jr.—*Gas Burner.*

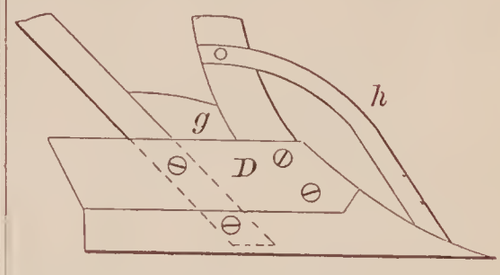




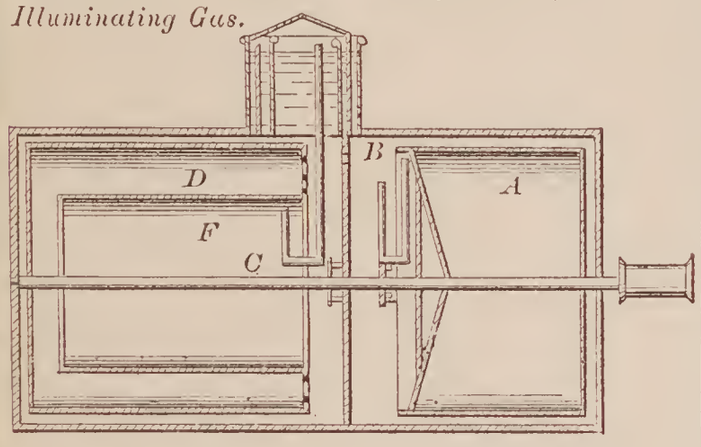
78868—C. R. Elmer—*Singletree Brace.*



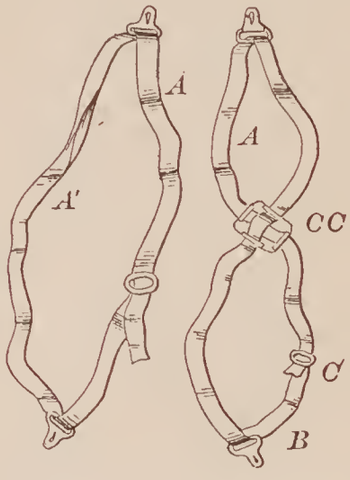
78869—C. M. French—*Plow.*



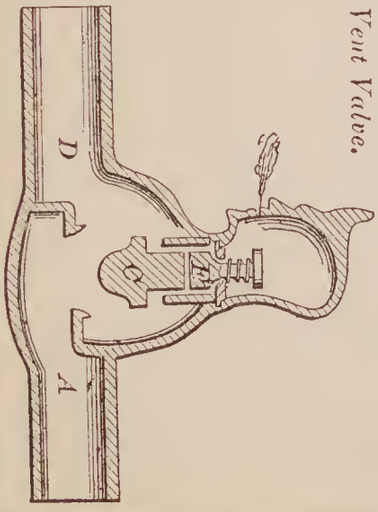
78870—G. P. Ganster—*Manufacture of Illuminating Gas.*



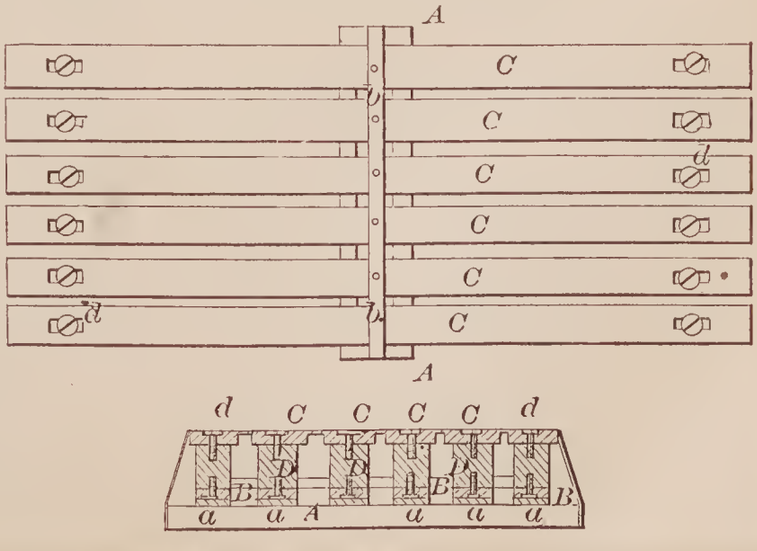
78872—A. W. Harris—*Suspenders.*



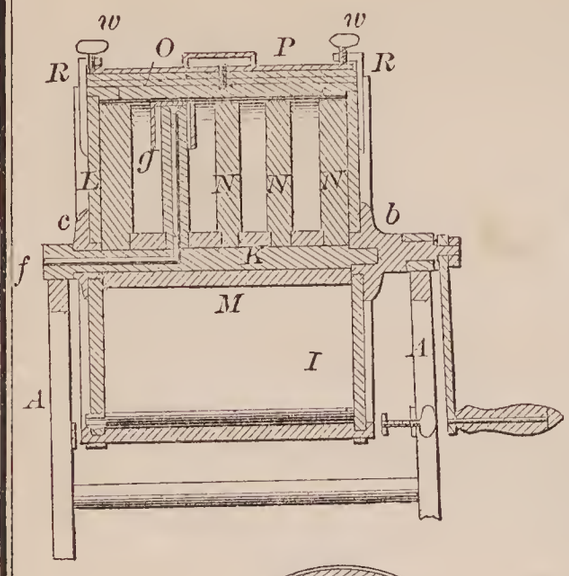
78873—J. H. G. Hawes—*Influx and Vent Valve.*

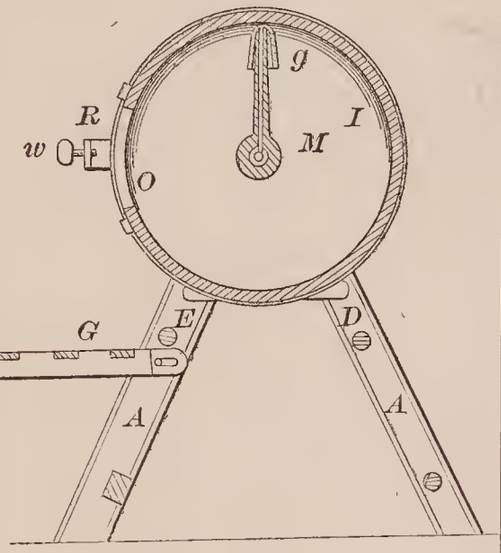


78876—W. R. S. Hunter—*Bed Bottom.*

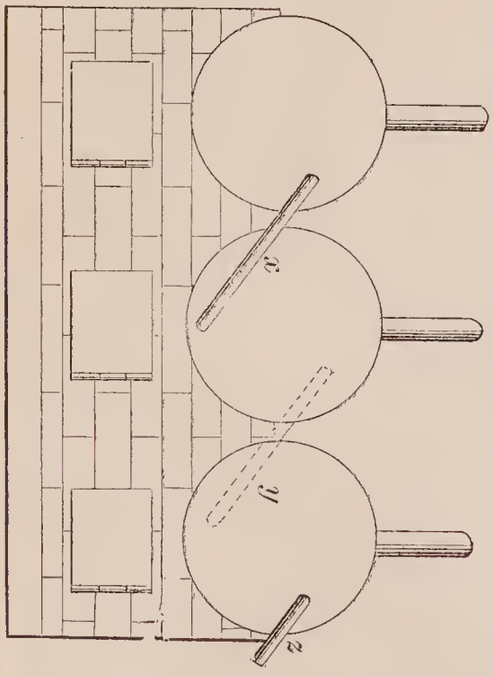


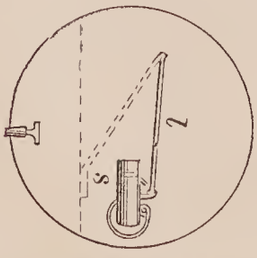
78877—F. A. Jewett—*Churn.*



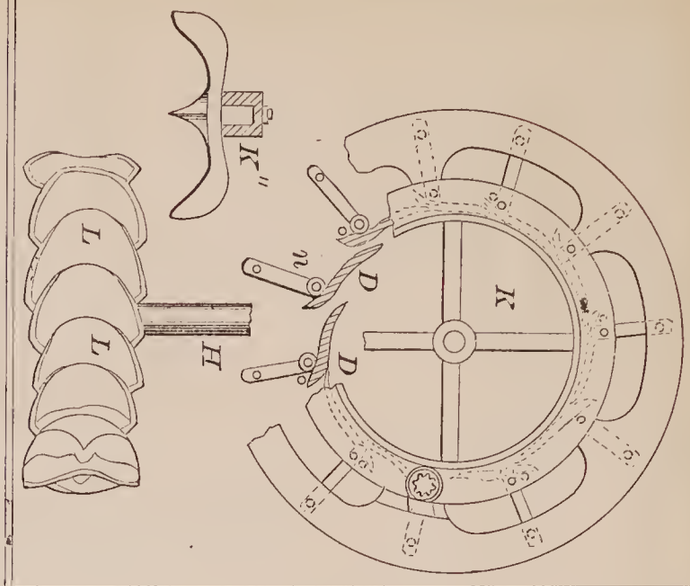


78878—A. Kirk—*Distilling Petroleum.*

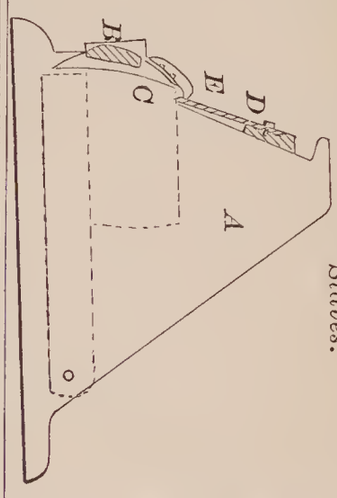




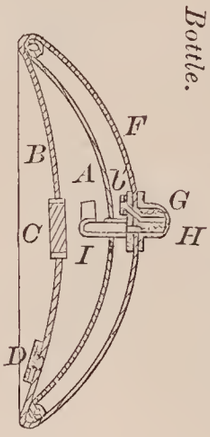
78879—T. Leffel—*Water Wheel.*



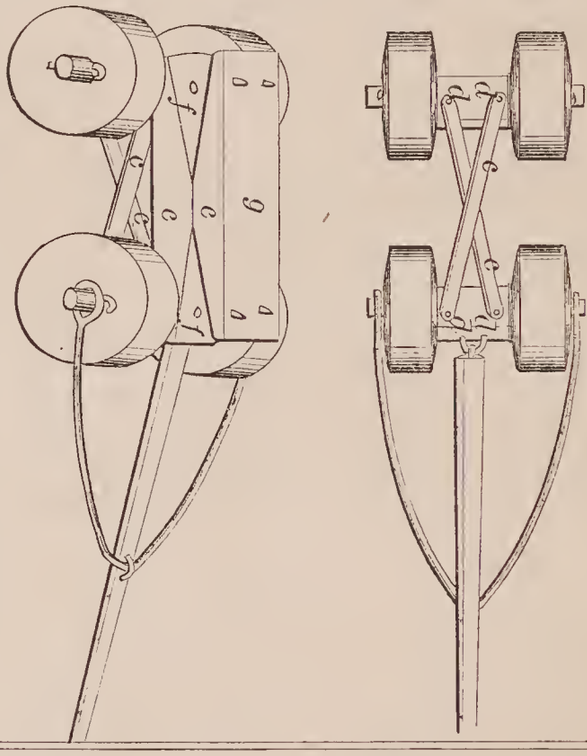
78882—H. Martin—*For Cutting Staves.*



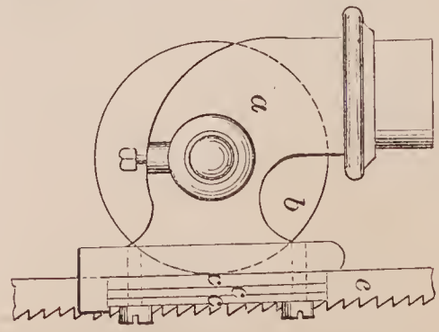
78881—H. W. Libbey—*Nursing Bottle.*



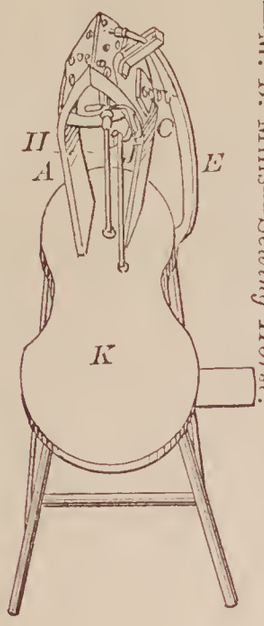
78883—J. S. Millikan—*Truck.*



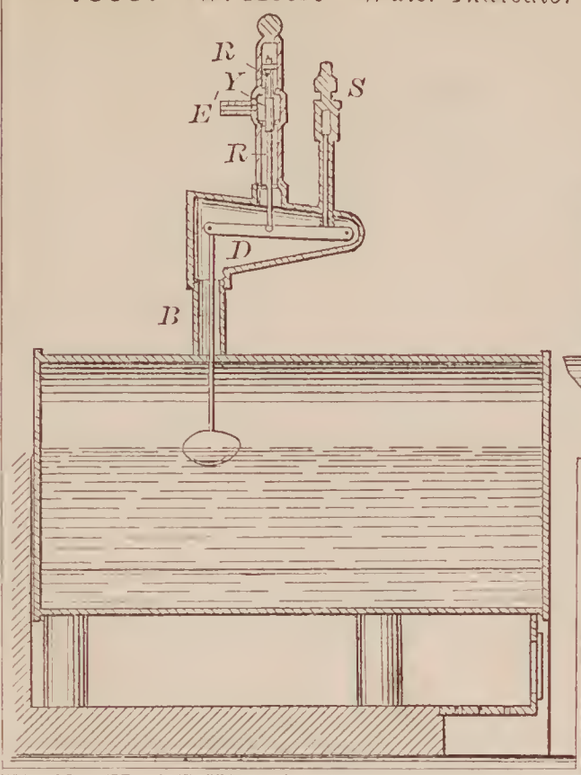
78880—J. Lemman—*Guide for Band Saws.*



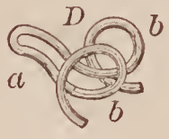
78884—M. B. Mills—*Sewing Horse.*



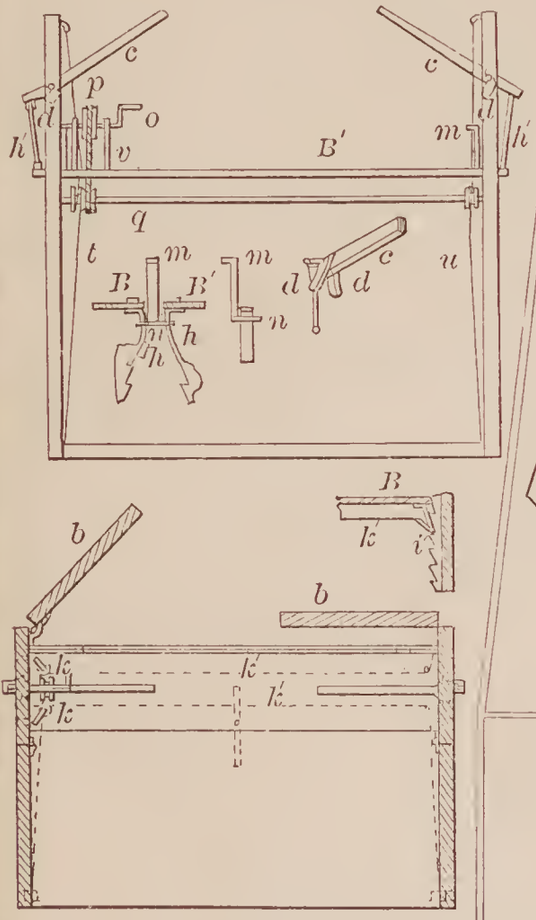
78885—W. Moore—*Water Indicator for Steam Generators.*



78888—H. L. C. Muller—*Shoe Lacing Deviee.*

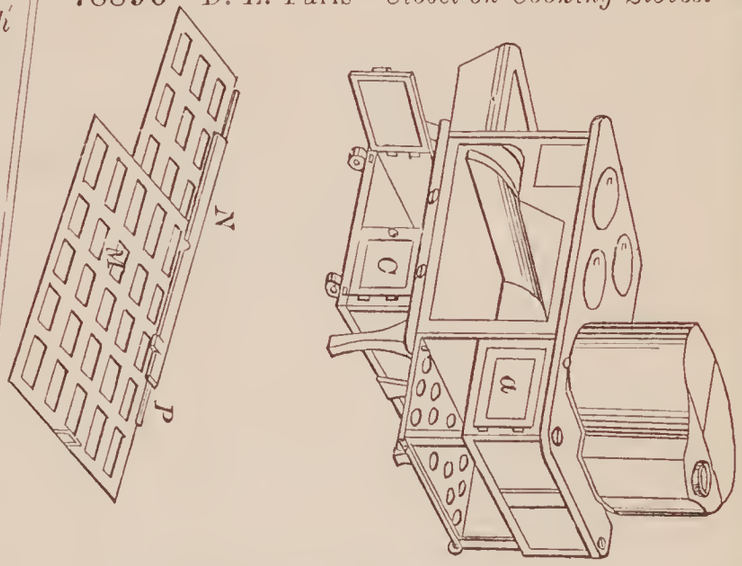


78886—D. Morrison—*Staging.*

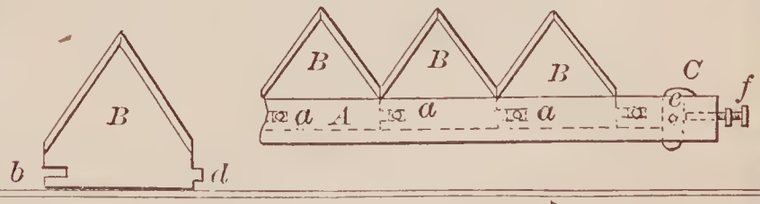


78887—Morse & Powell—*Eraser.*

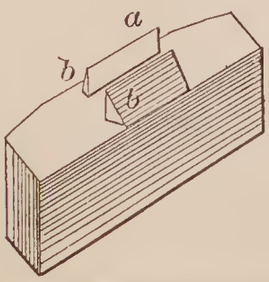
78890—D. E. Paris—*Closet on Cooking Stoves.*



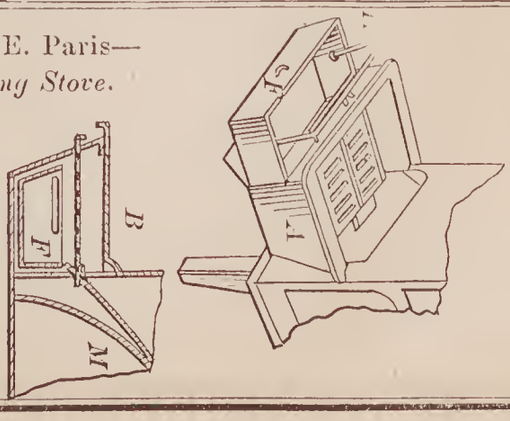
78889—J. T. Norris—*Harvester Cutter.*



78892—C. H. Perkins—*Toe Calk for Horse Shoes.*



78891—D. E. Paris—*Cooking Stove.*



78893—G. W. Pierce—*Umbrella.*

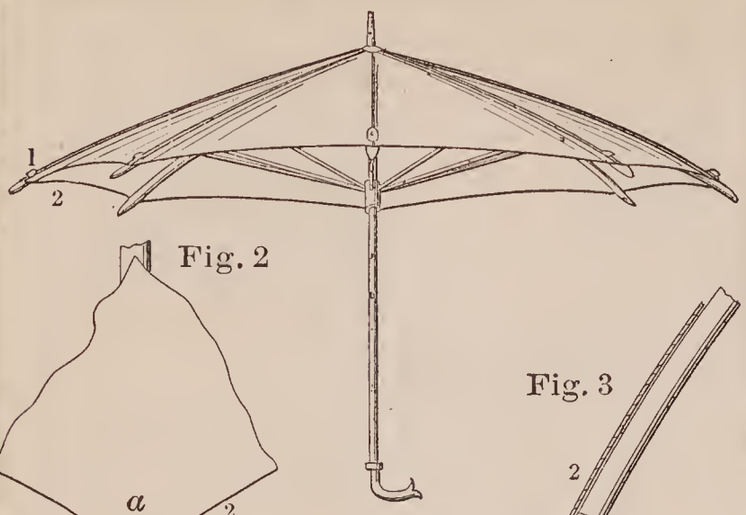


Fig. 2

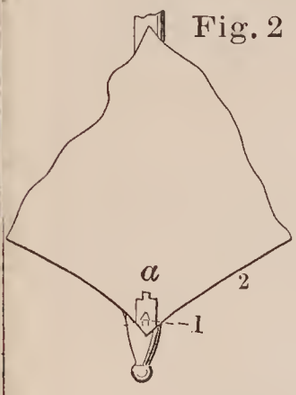


Fig. 3

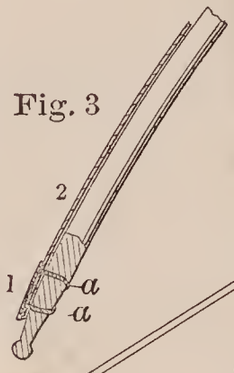
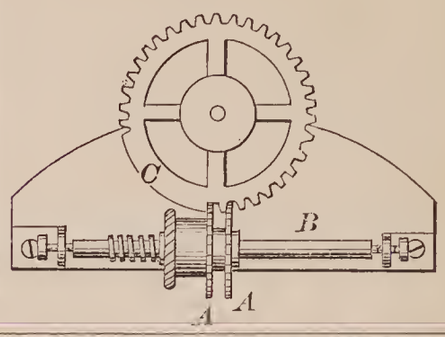
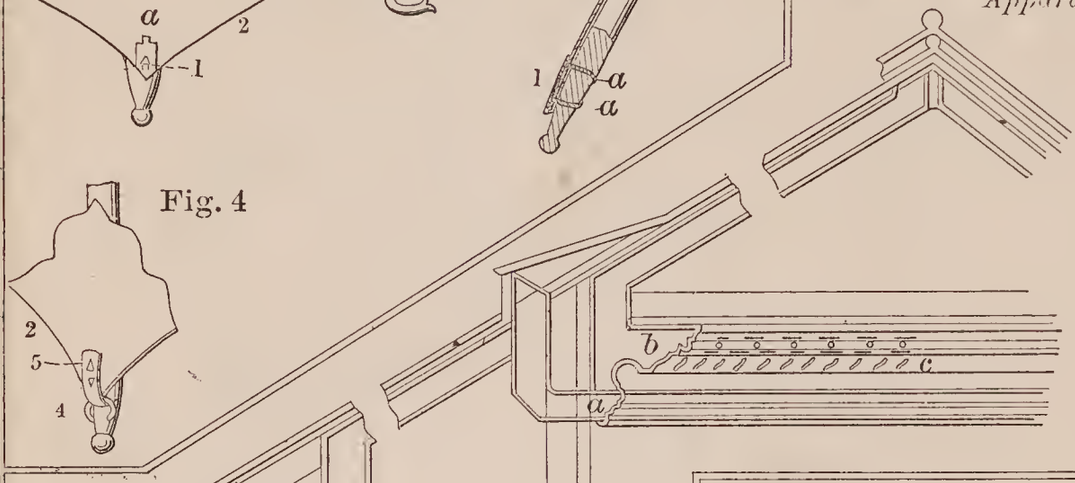


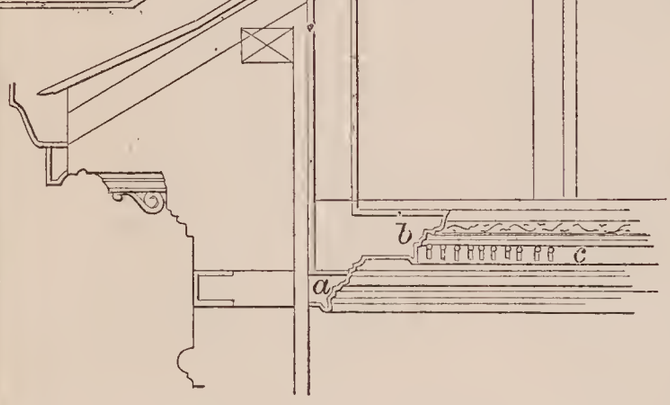
Fig. 4

78896—E. Roberts—*For Cutting the Teeth of Wheels.*

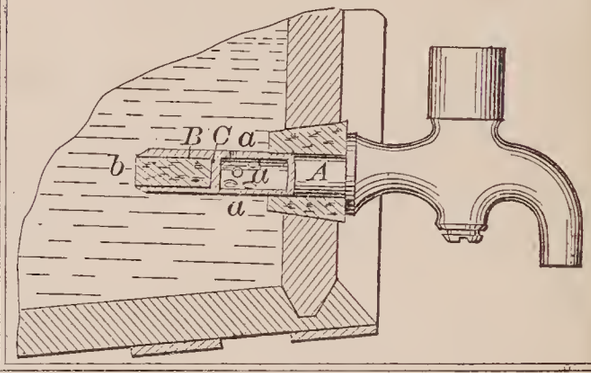


78894—W. Potts—*Ventilating Apparatus.*

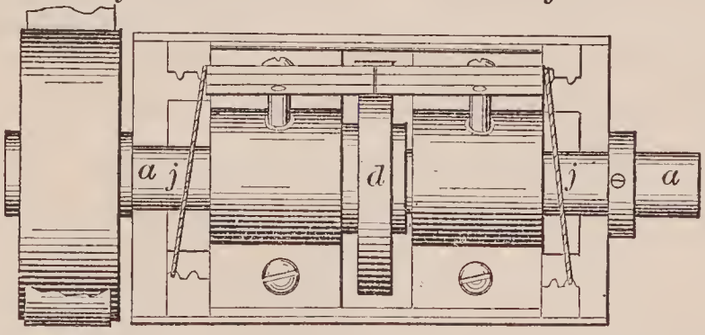


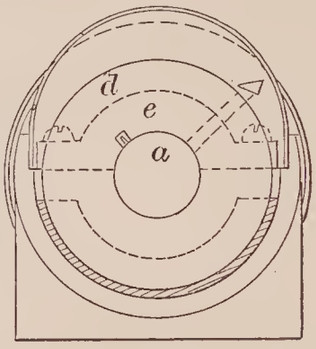


78897—A. Rooker—*Faucet.*

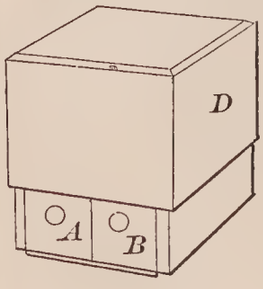


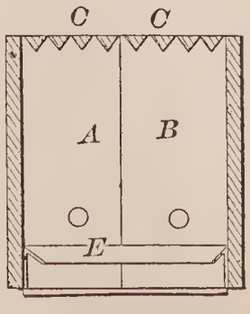
78895—Reynolds & Bachelder—*Lubricating Device.*



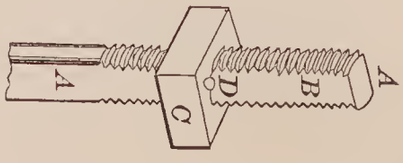


78898—S. P. Shipley—*Beehive.*

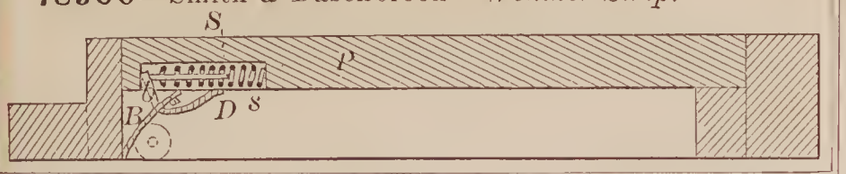




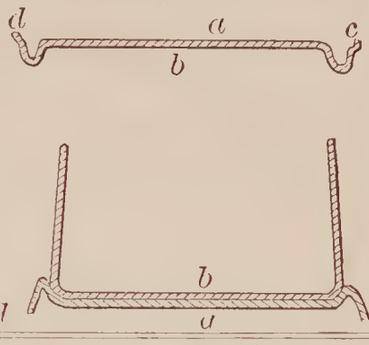
78899—A. D. Smith—*Lock Nut.*



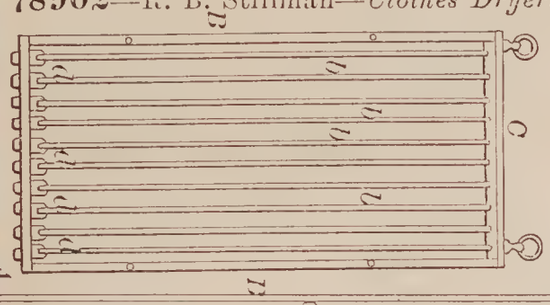
78900—Smith & Dasenbrook—*Weather Strip.*



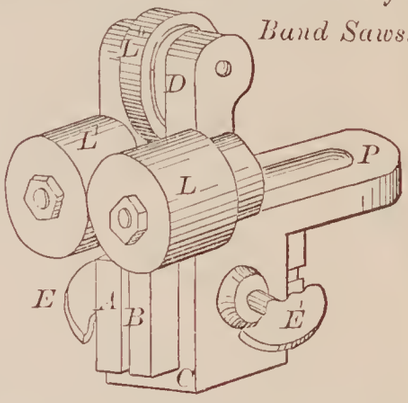
78901—W. W. Stevens—*Tea Pot.*



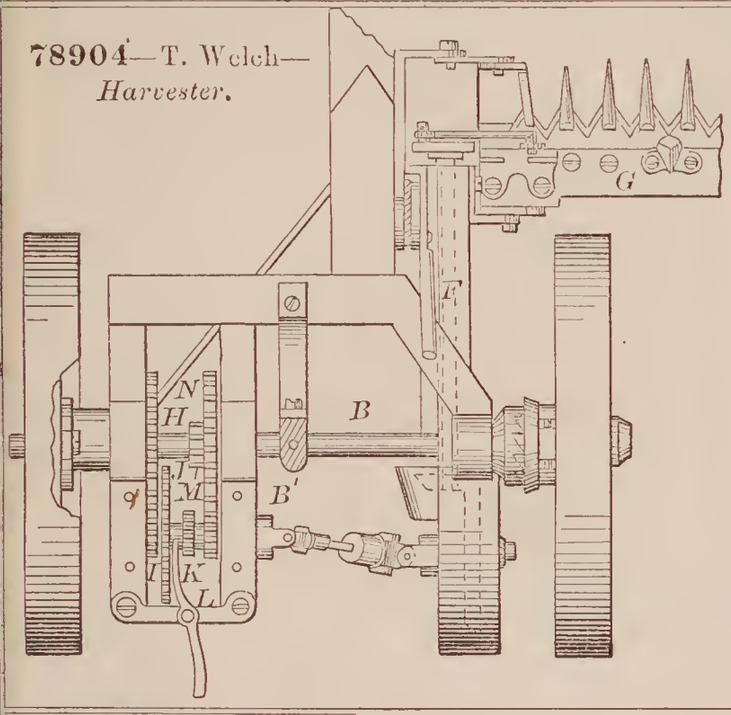
78902—R. B. Stillman—*Clothes Dryer.*



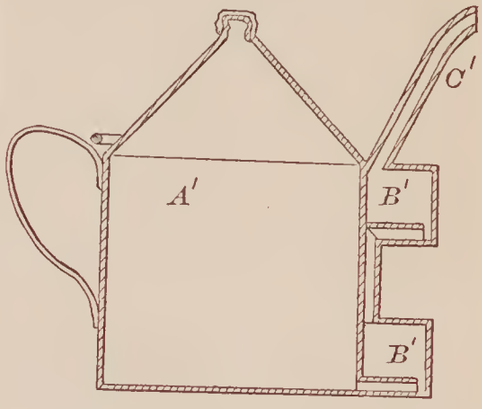
78903—W. P. Welch—*Guide for Band Saws.*



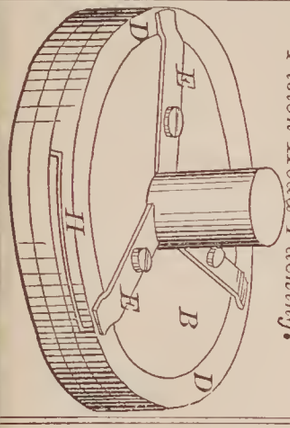
78904—T. Welch—*Harvester.*



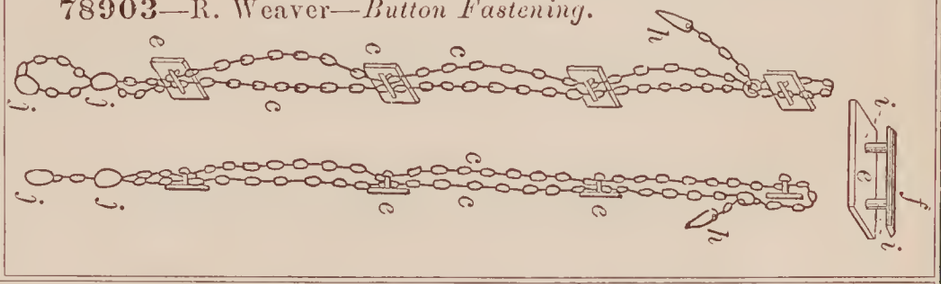
78906—H. B. Wellman—*Oil Can.*



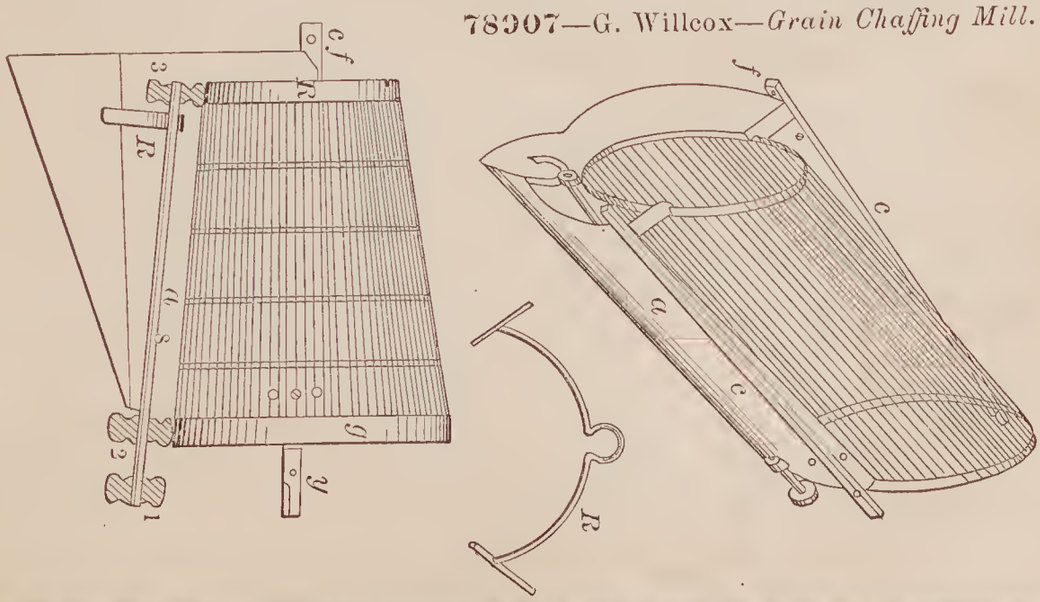
78911—J. U. Adams—*Piston Head Packing.*



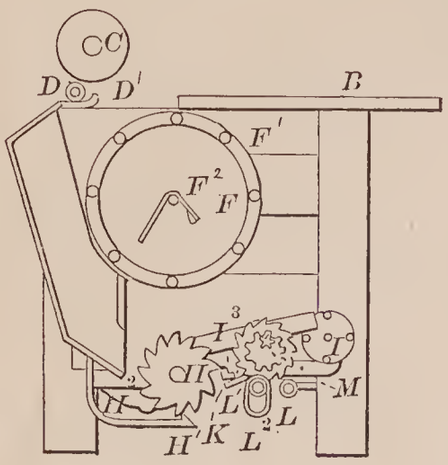
78903—R. Weaver—*Button Fastening.*

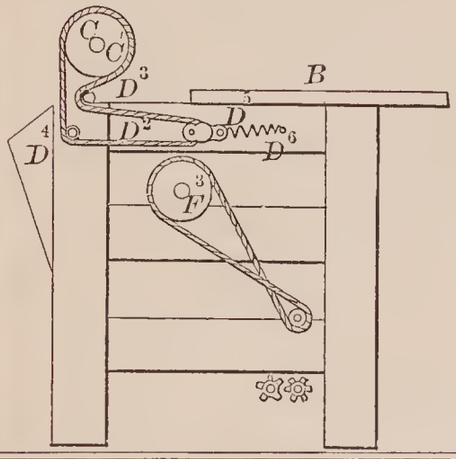


78907—G. Willcox—*Grain Chaffing Mill.*

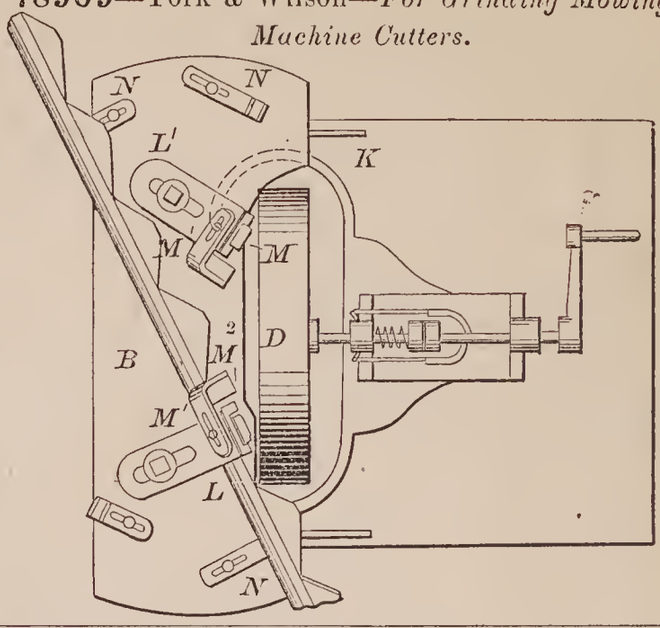


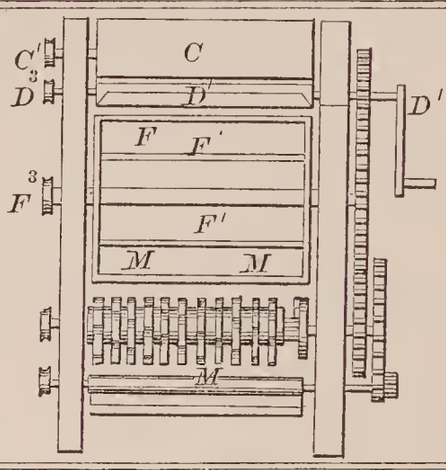
78908—C. O. Yale—*Corn Husker.*





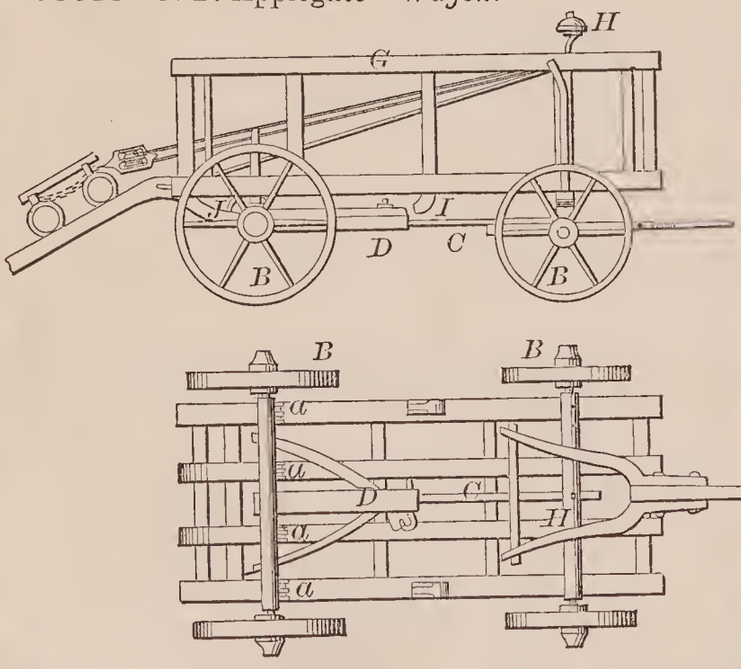
78909—York & Wilson—*For Grinding Mowing Machine Cutters.*





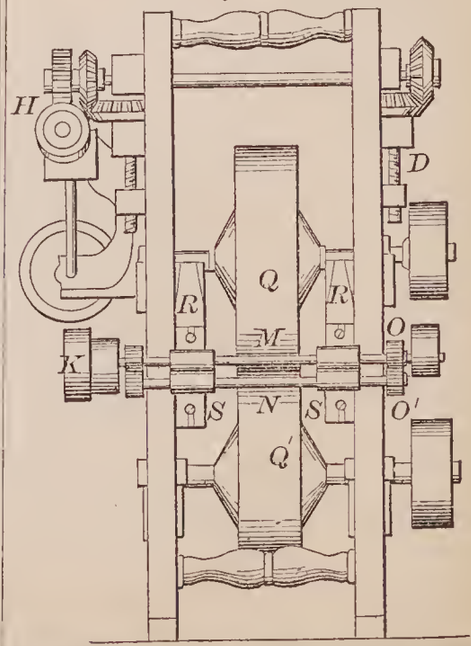
78916—E. H. Babcock—*Drill Chuck.*

78913—J. F. Applegate—*Wagon.*

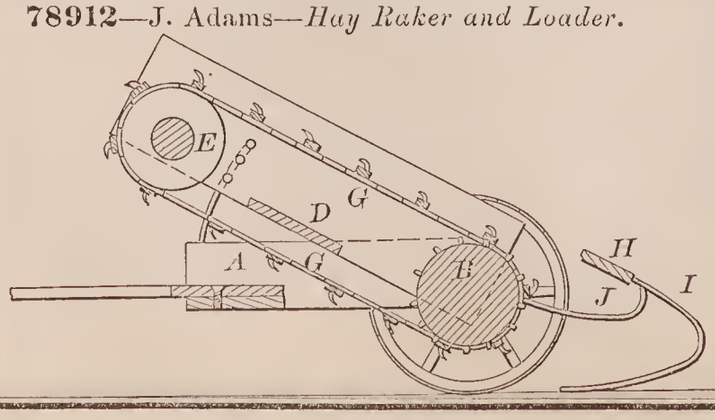


78914—J. C. Arms—*Pocket Book Fastening.*

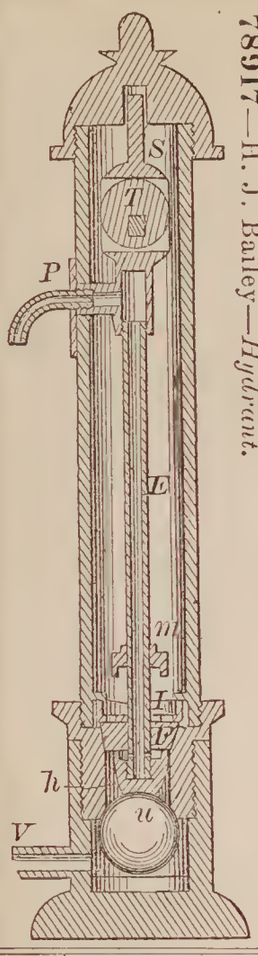
78915—E. C. Atkins—*For Polishing Metal Plates.*



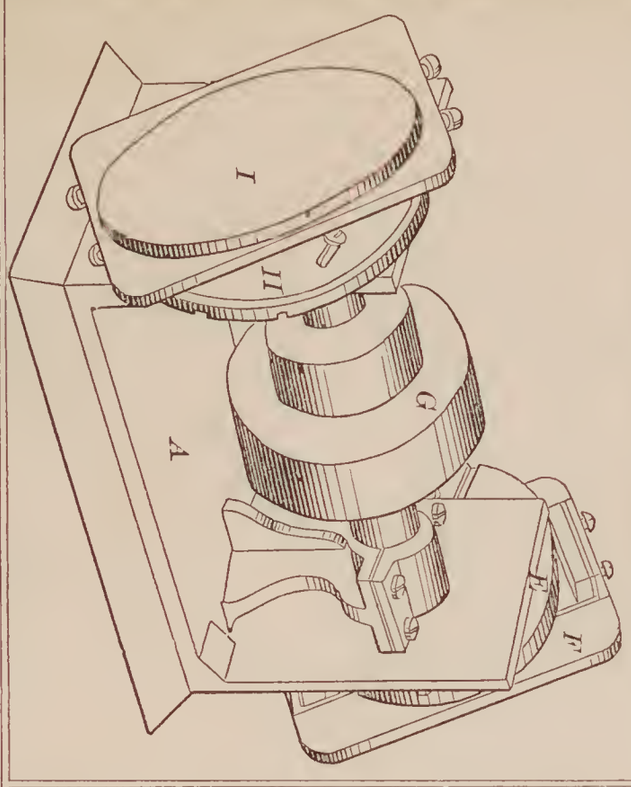
78912—J. Adams—*Hay Raker and Loader.*



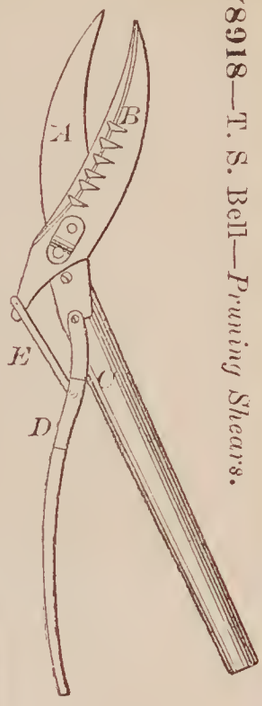
78917—H. J. Bailey—*Hydrant.*



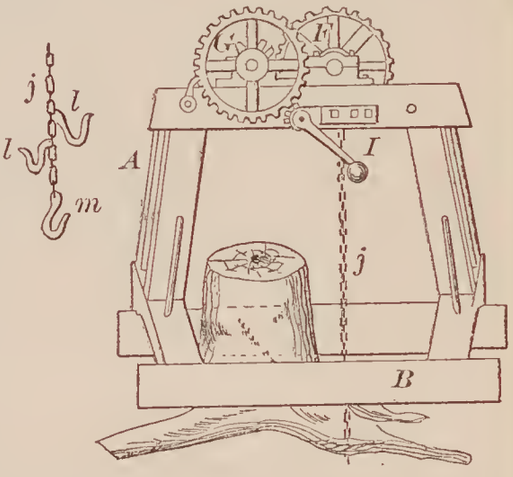
78919—A. P. C. Bonte—*Wood Turning Lathe.*



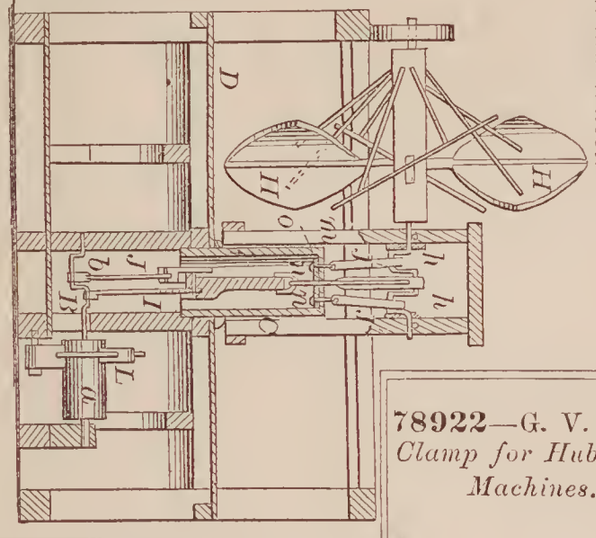
78918—T. S. Bell—*Pruning Shears.*



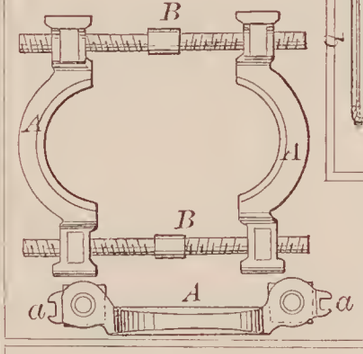
78920—J. G. Boyer—*Stump Extractor.*



78921—J. T. Braun—*Wind Wheel.*

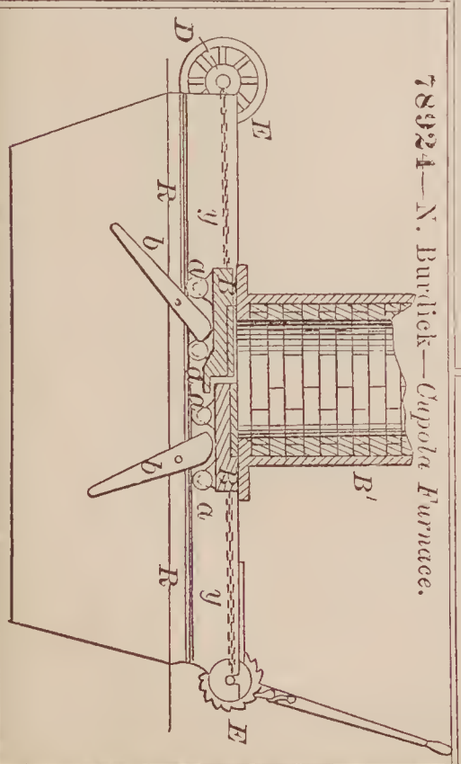


78922—G. V. Brecht—*Clamp for Hub Boring Machines.*

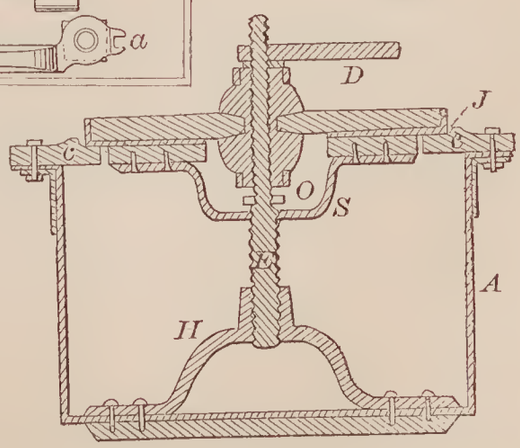


78923—H. H. Browne—*Advertising Device.*

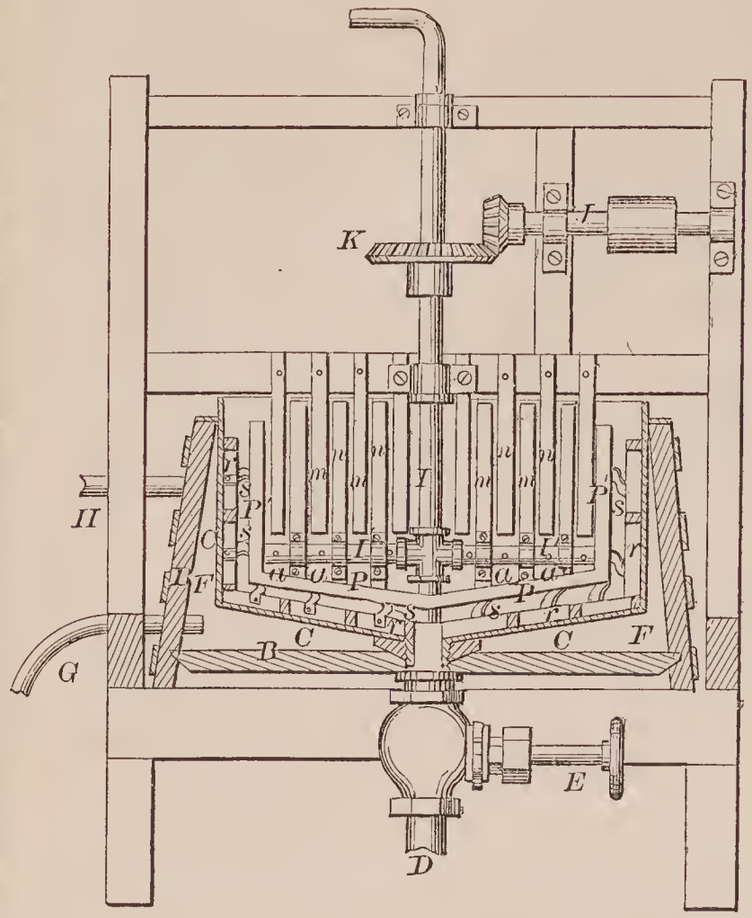
78924—N. Burdick—*Cupola Furnace.*



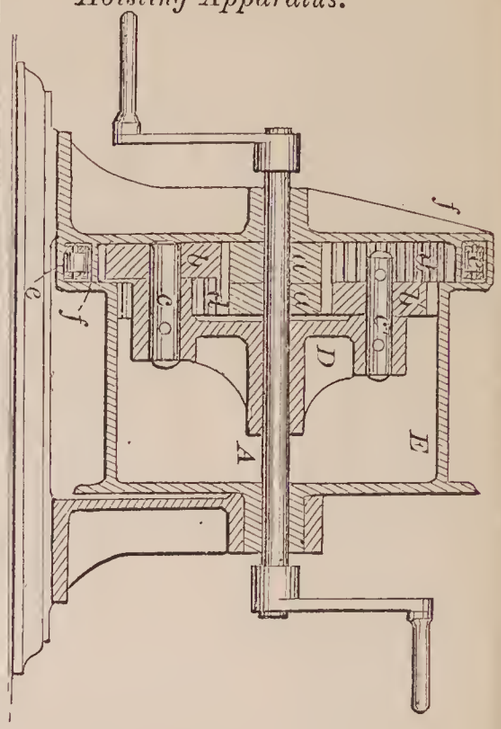
78926—R. Cawthorne—*Tire Setter.*

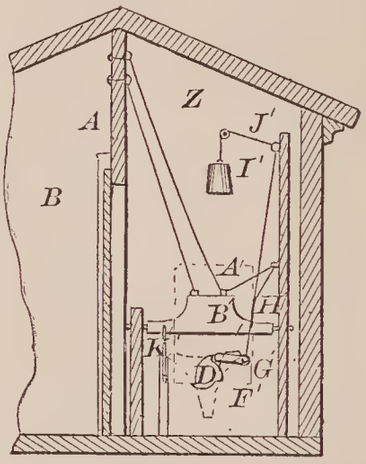


78925—G. C. Cassard—*Lard Cooler.*

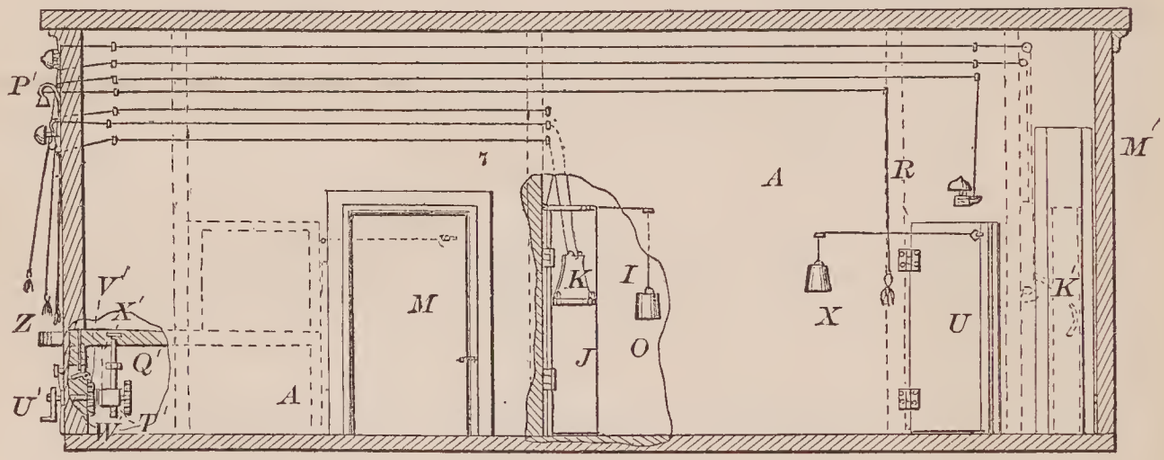


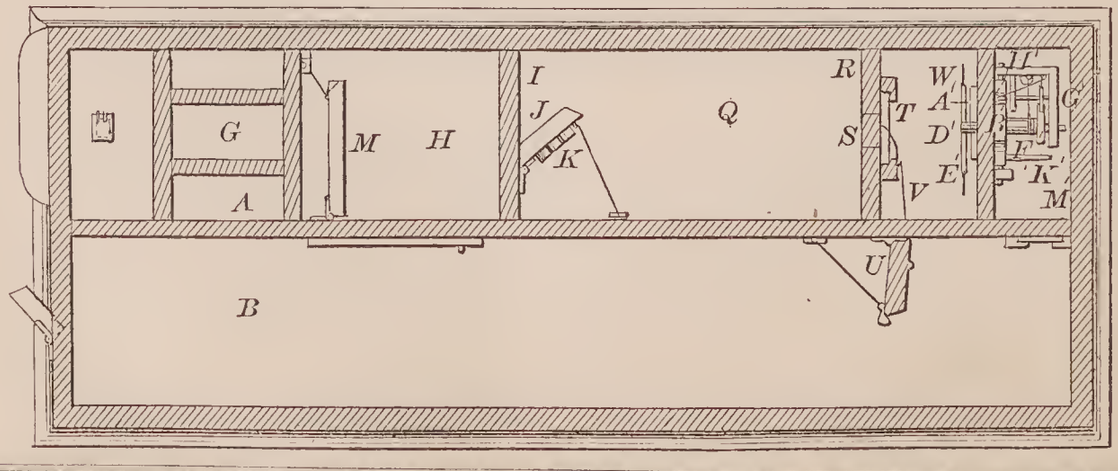
78927—J. Christiansen—*Hoisting Apparatus.*



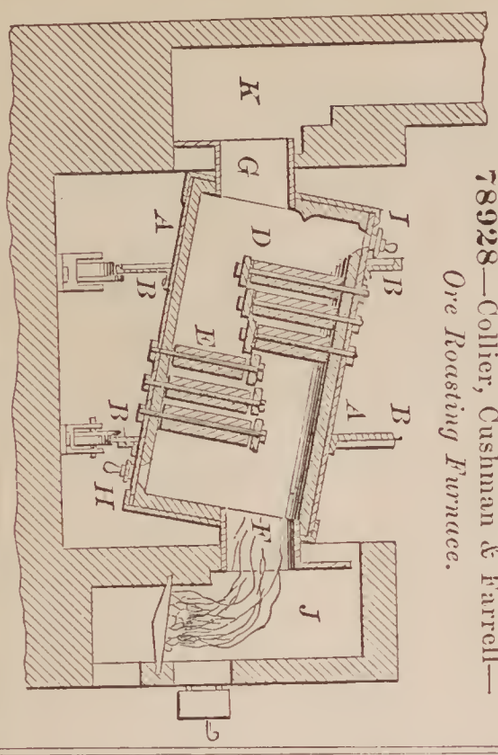


78929—J. S. Conlin—*Shooting Gallery.*

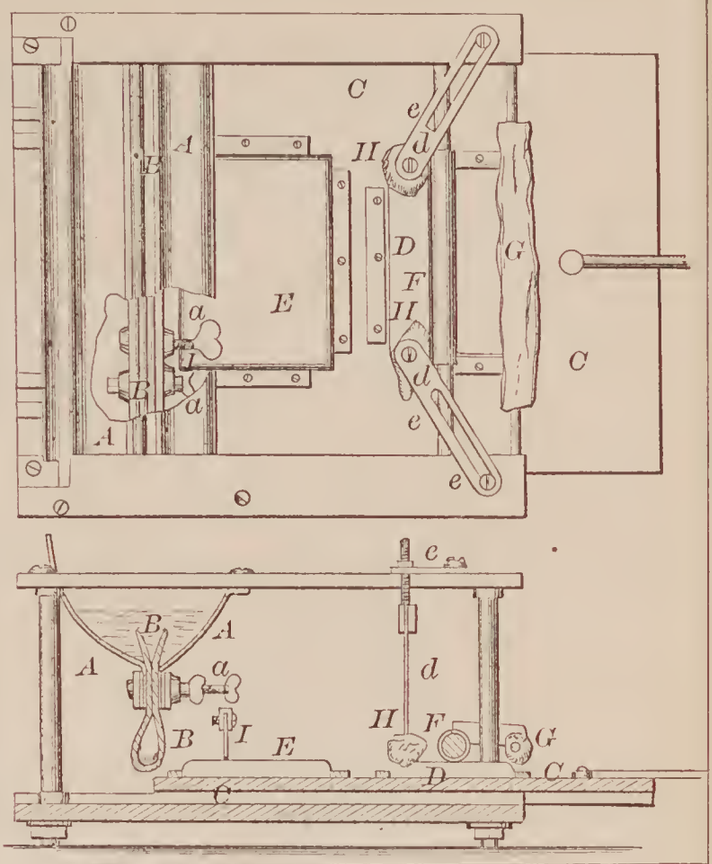




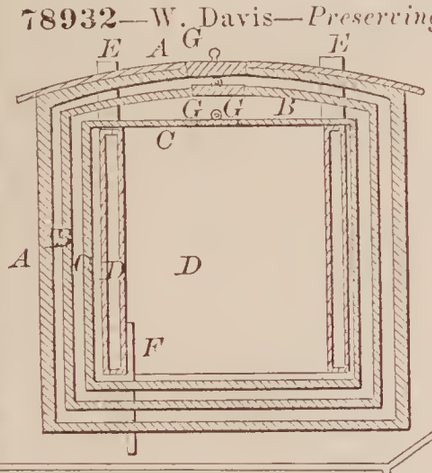
78928—Collier, Cushman & Farrell—*Ore Roasting Furnace.*



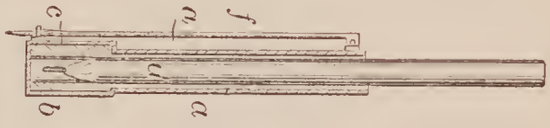
78930—G. Cooper—*Lithographic Press.*



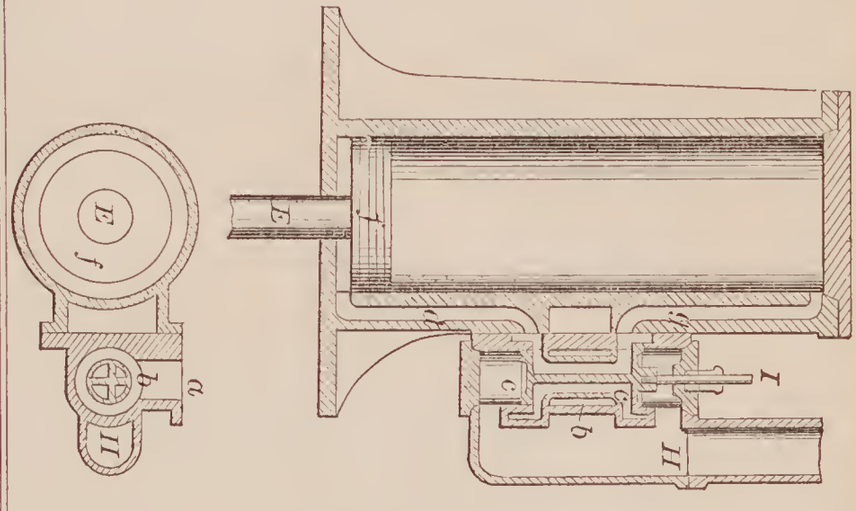
78932—W. Davis—*Preserving Meat.*



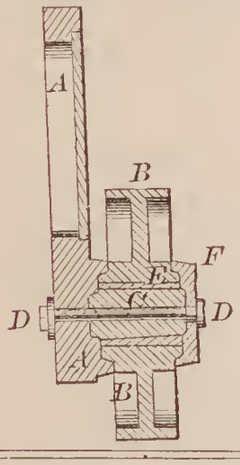
78931—J. Danner—*Pencil Sheath.*



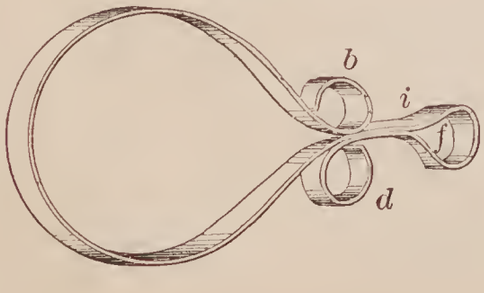
78933—D. Davy—*Piston Valve for Steam Hammers.*



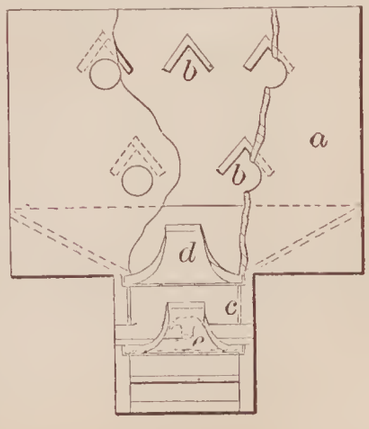
78934—G. S. Deane—*Gauge Wheel for Plows.*



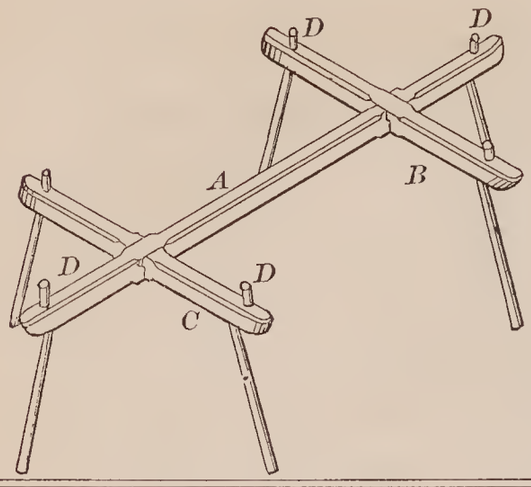
78936—H. H. Dickinson—*Tail Clasp for Milkers.*



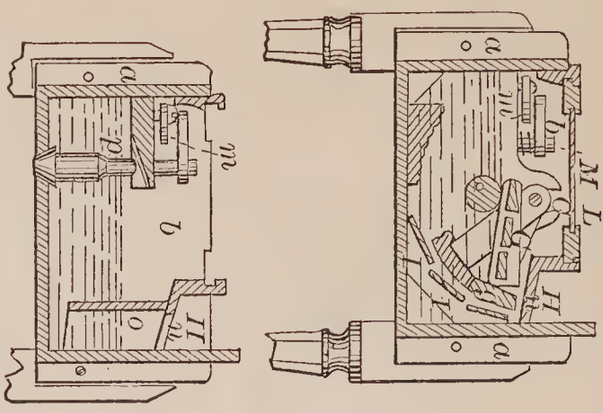
78935—D. A. Dickinson—*Ventilating and Drying Corn and Grain.*



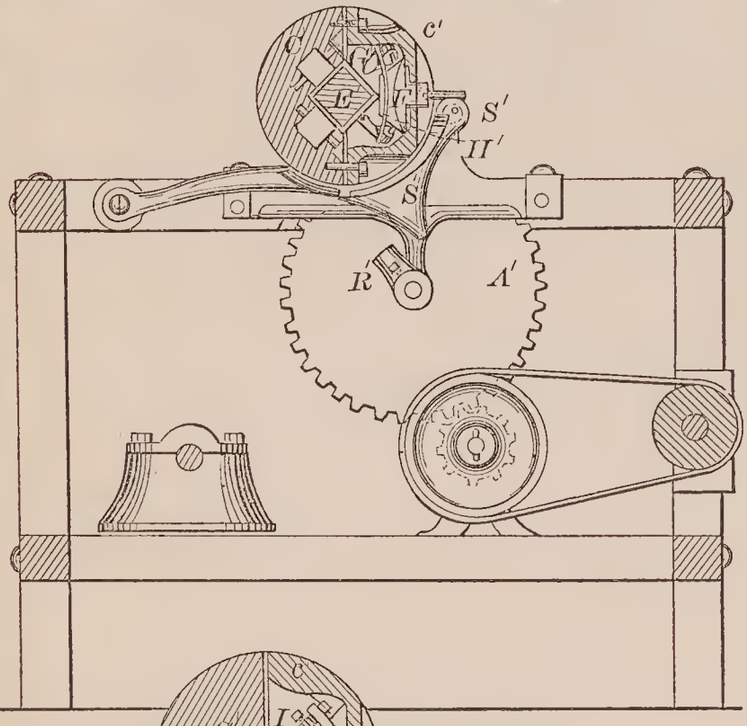
78937—F. Diebold—*Wash Bench.*

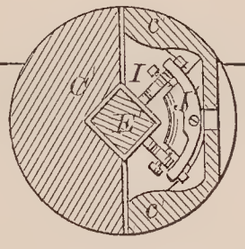


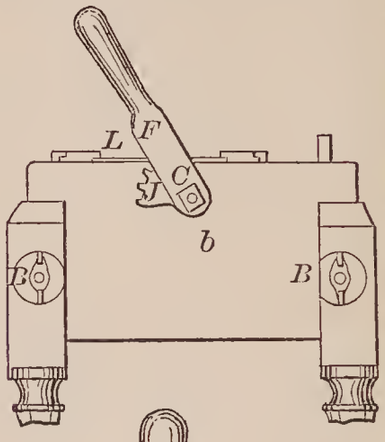
78940—W. M. Doty—*Washing Machine.*

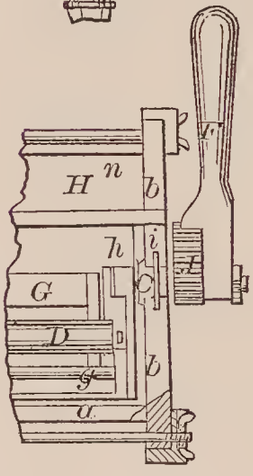


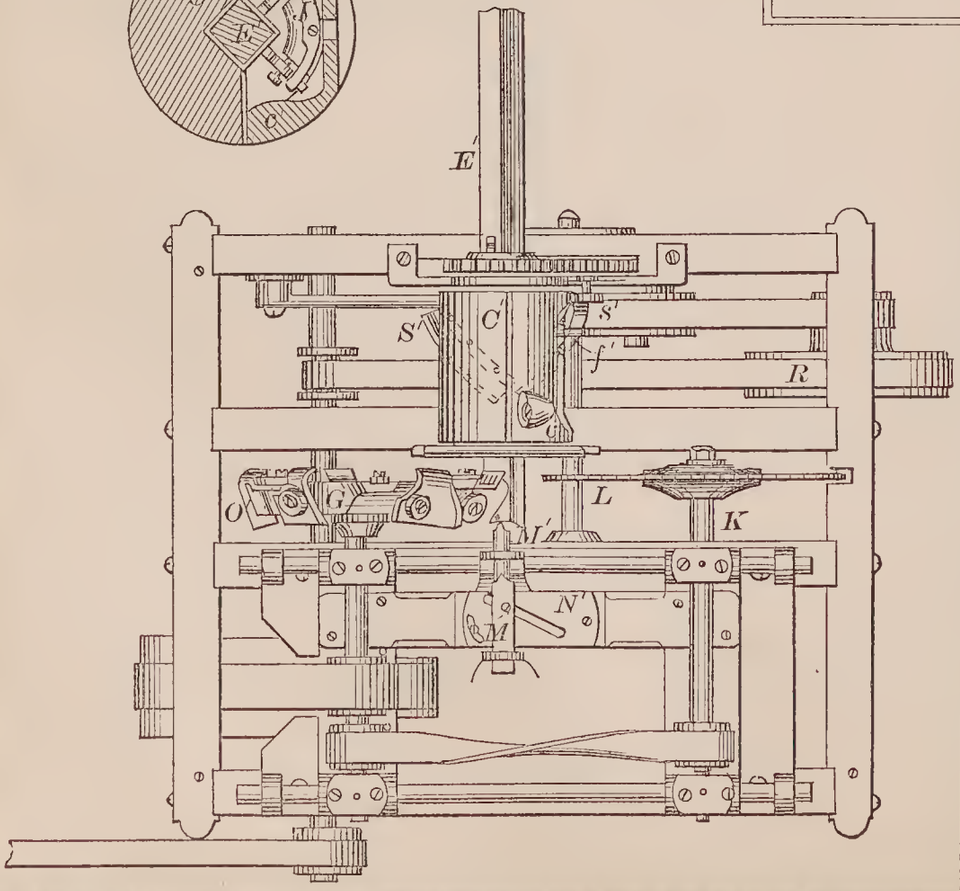
78938—W. Donaldson—*For Making Bungs.*



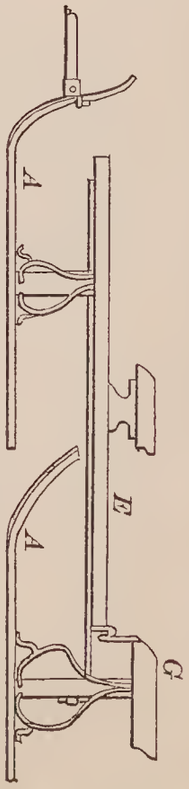




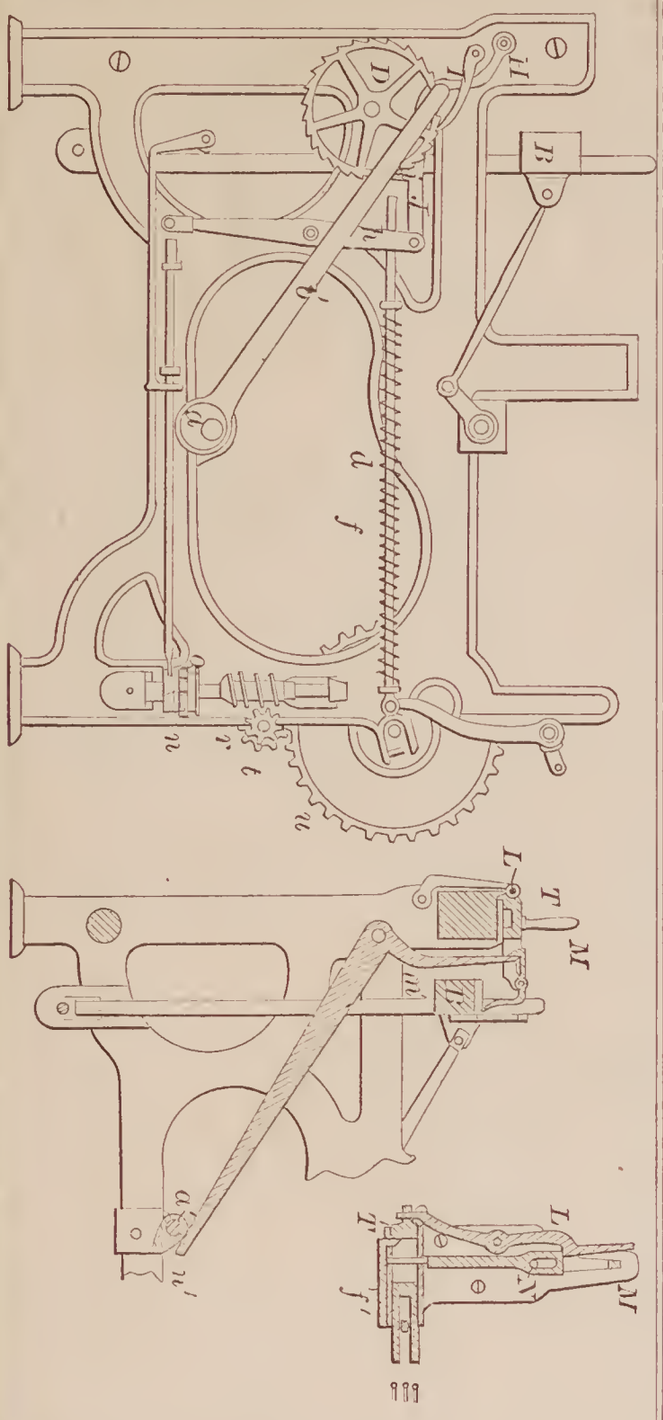




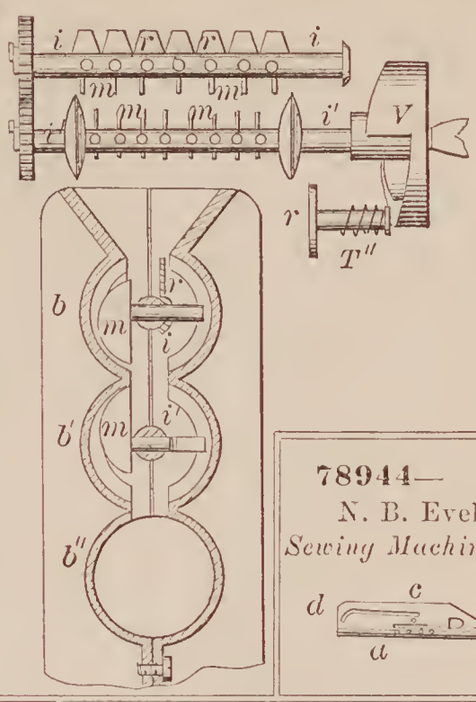
78939—J. P. Dorman—*Sleigh.*



78941—W. F. Draper—*Loom.*

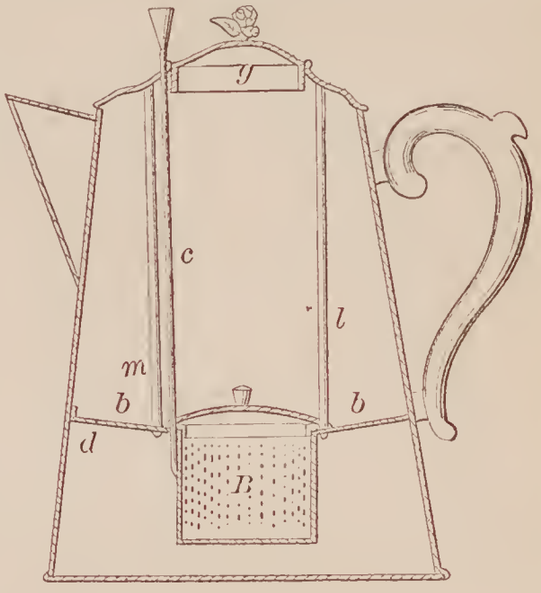


78942—J. M. Drouyer—*Meat Mincer.*

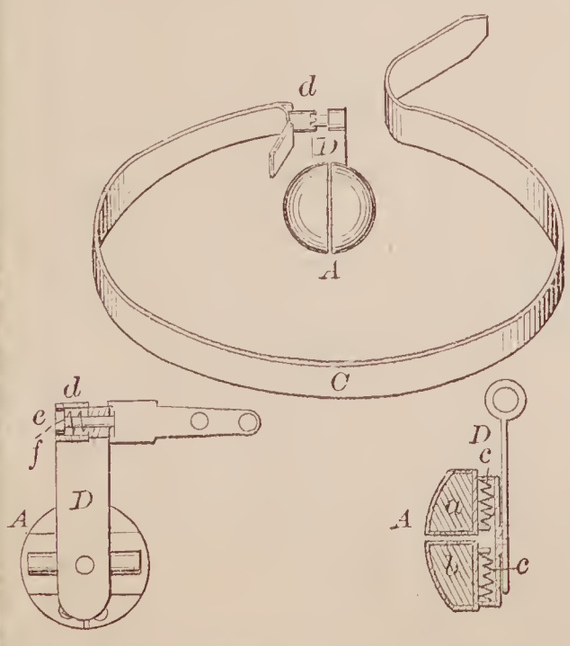


78944—
N. B. Eveland—
Sewing Machine Shuttle.

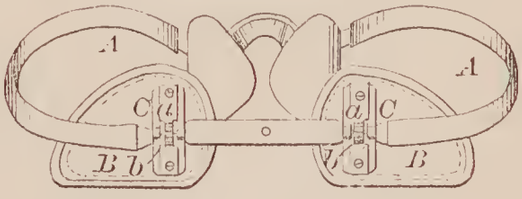
78943—J. G. Dyer—*Coffee Pot.*



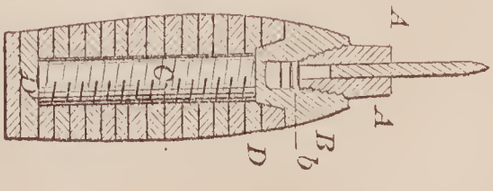
78945—M. Faloon—*Truss.*



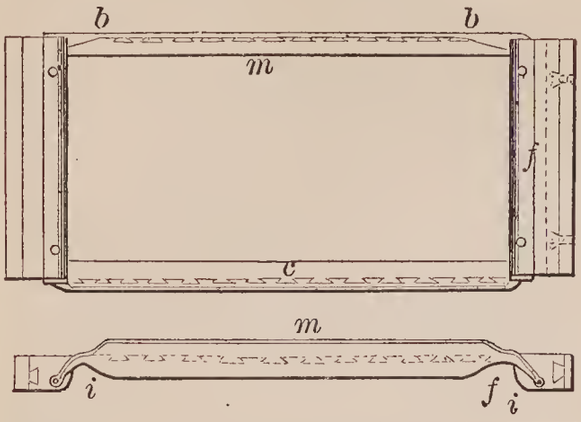
78946 M. Faloon—*Abdominal Supporter.*



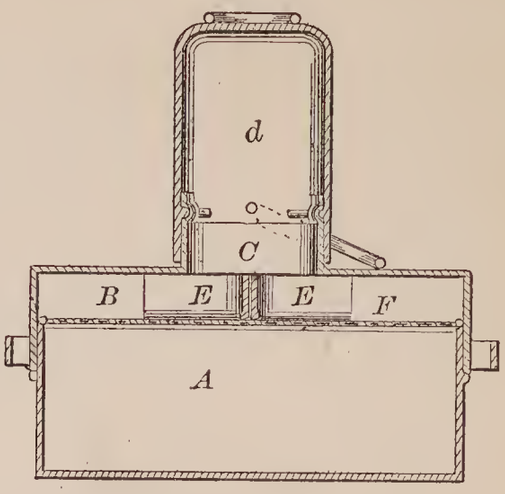
78947—L. H. Farnsworth—*Axle Haft.*



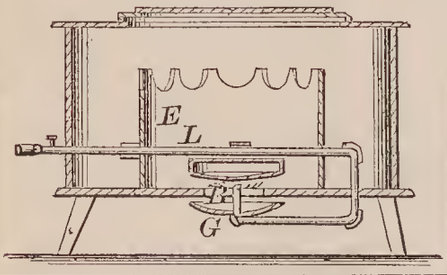
78948—A. C. Flint—*Mosquito Bar.*



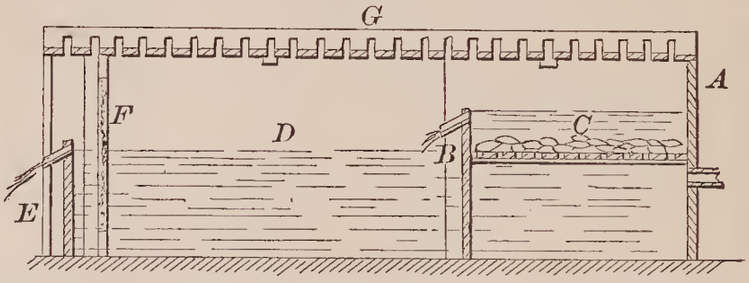
78949—C. Folsom—*Ash Sifter.*



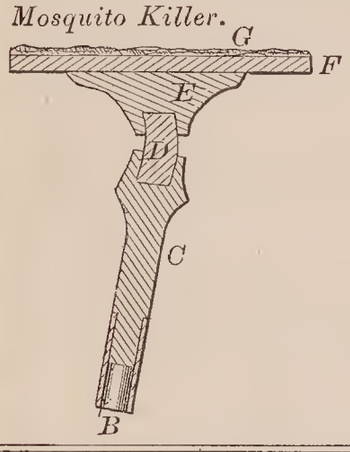
78951—O. C. Fox—*Gas Heater.*



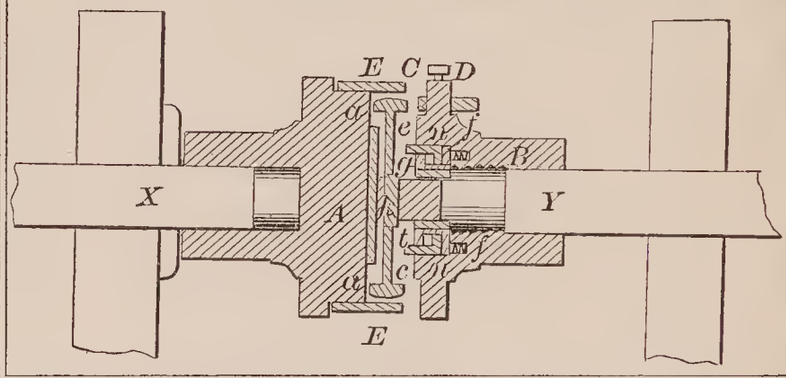
78952—W. H. Furman—*Pisciculture.*



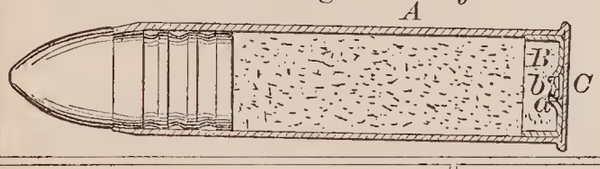
78950—H. D. Forbes—*Mosquito Killer.*



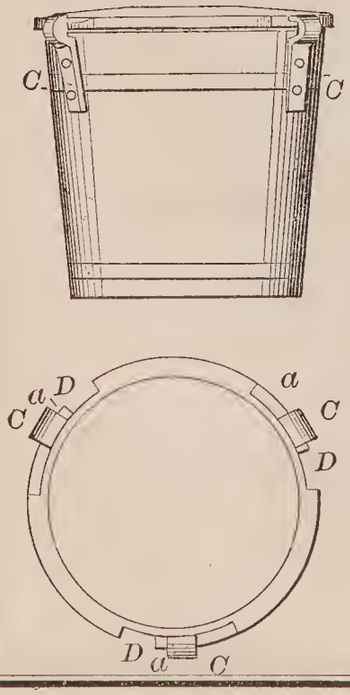
78954—J. Gibbons—*For Forming Cylinder Rings.*



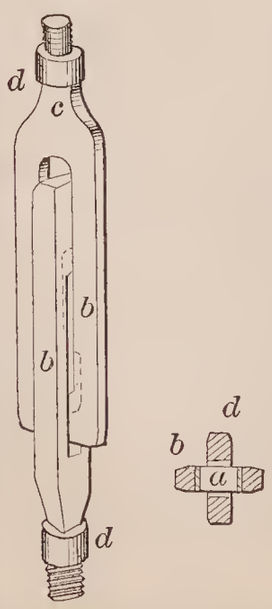
78953—R. J. Gatling—*Priming Metallic Cartridges.*



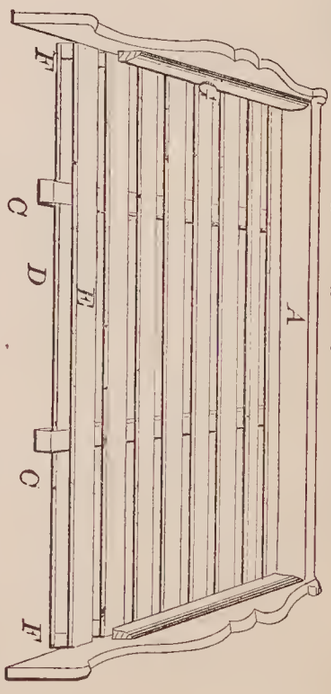
78955—D. A. Gilbert—*Butter Tub.*



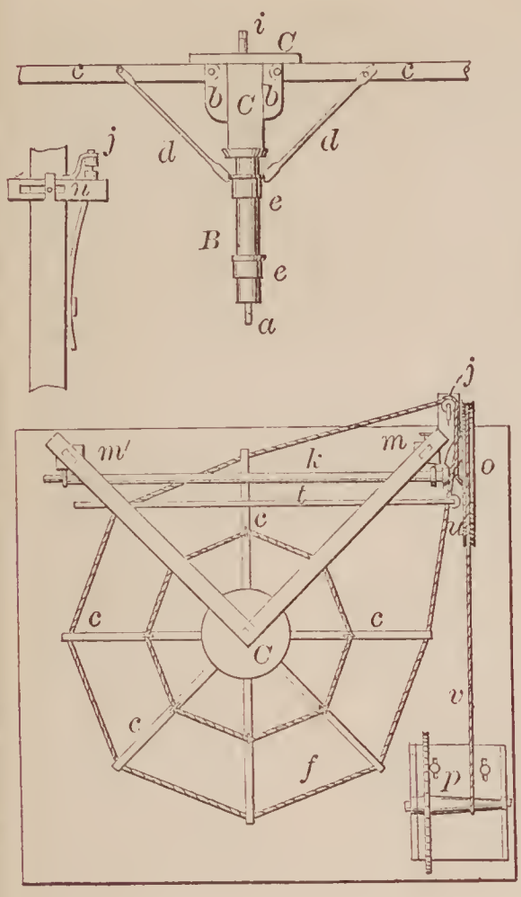
78958—E. Guilloa—*Drilling Jar.*



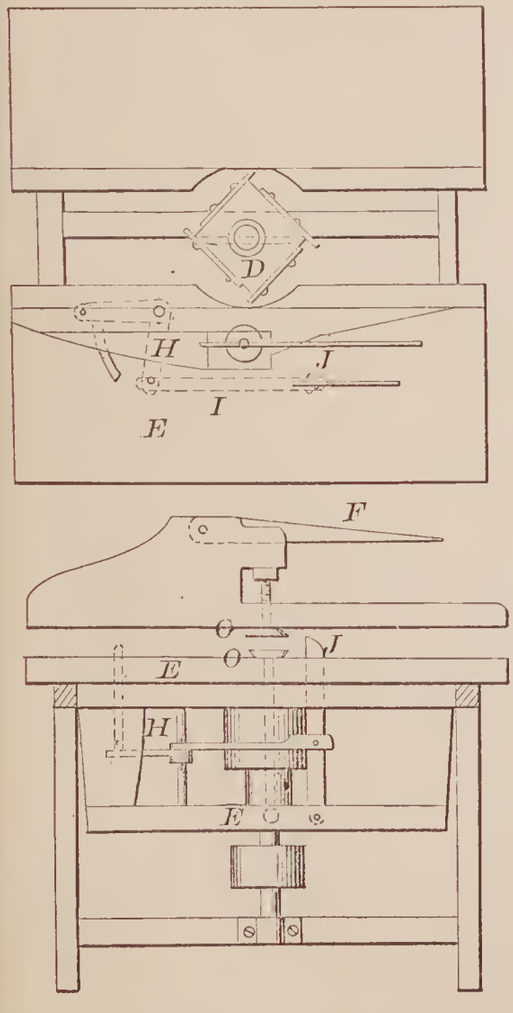
78956—L. Granger—*Spring Bed Bottom.*



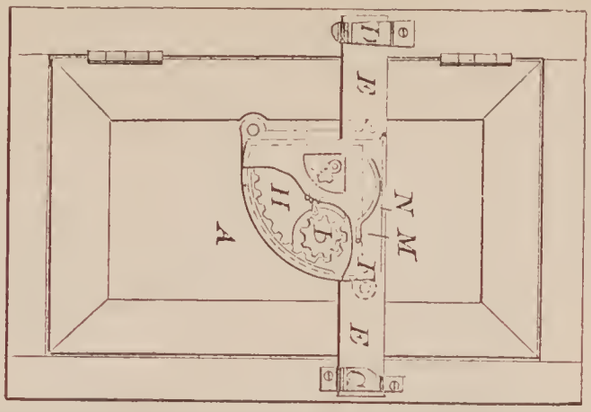
78957—J. A. Green—*Horse Power.*



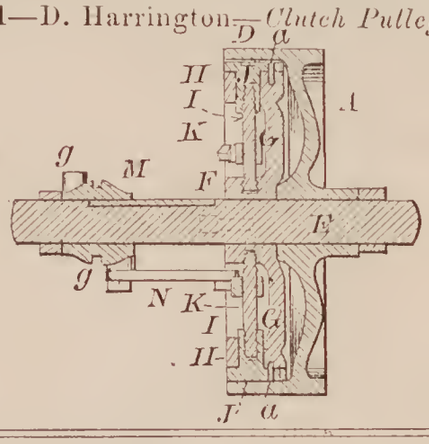
78959—S. Hagaman—*For Rounding Slate Frames.*



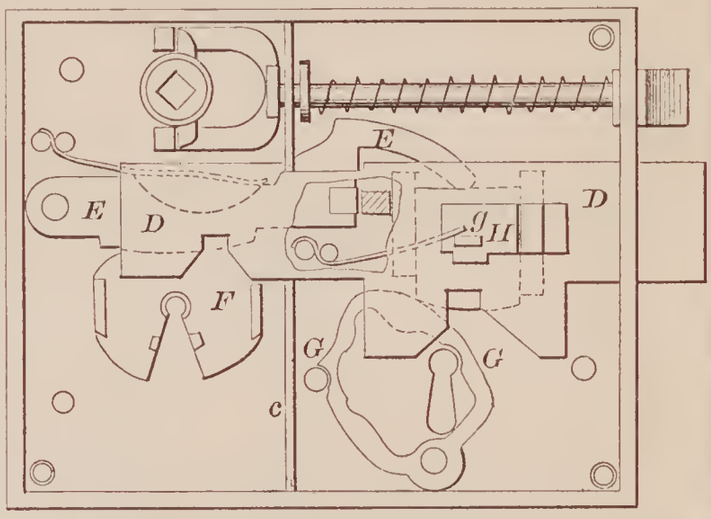
78960—J. E. Hanger—*Door Lock.*



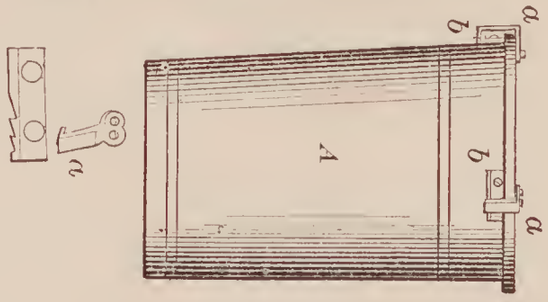
78961—D. Harrington—*Clutch Pulley.*



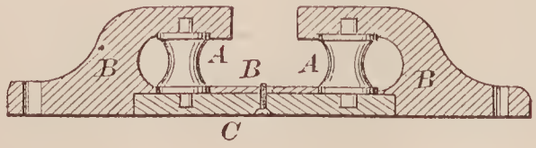
78962—R. C. Harrington—*Door Lock.*



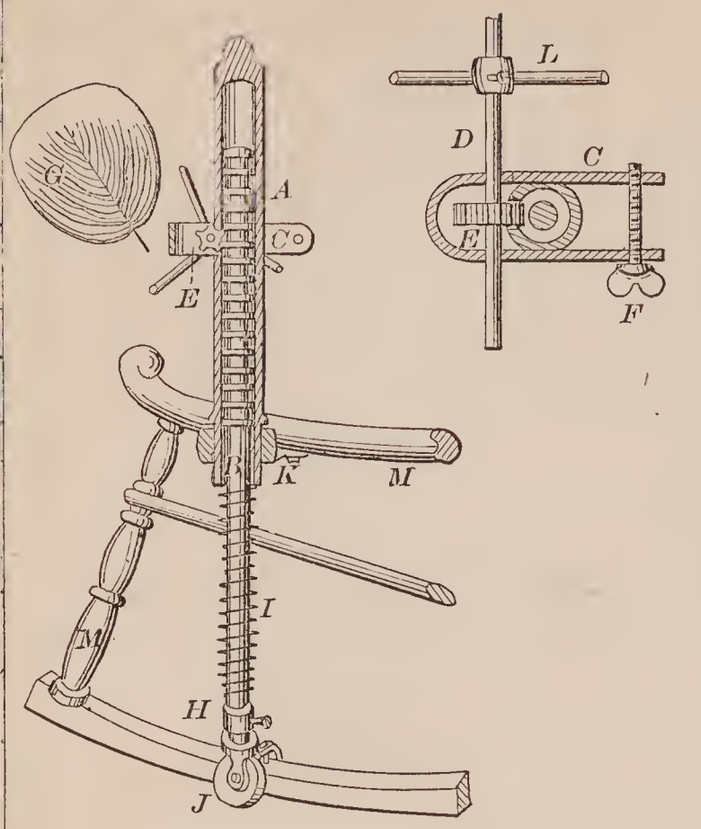
78963—A. B. Harris—*Butter Tub.*



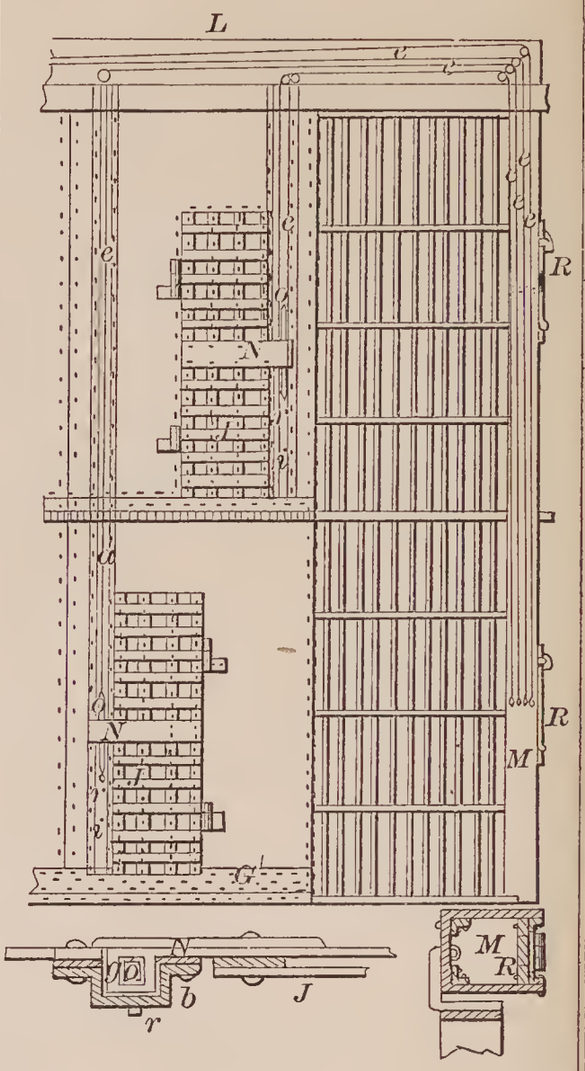
78964—J. T. Haskins—*Warping Chuck.*



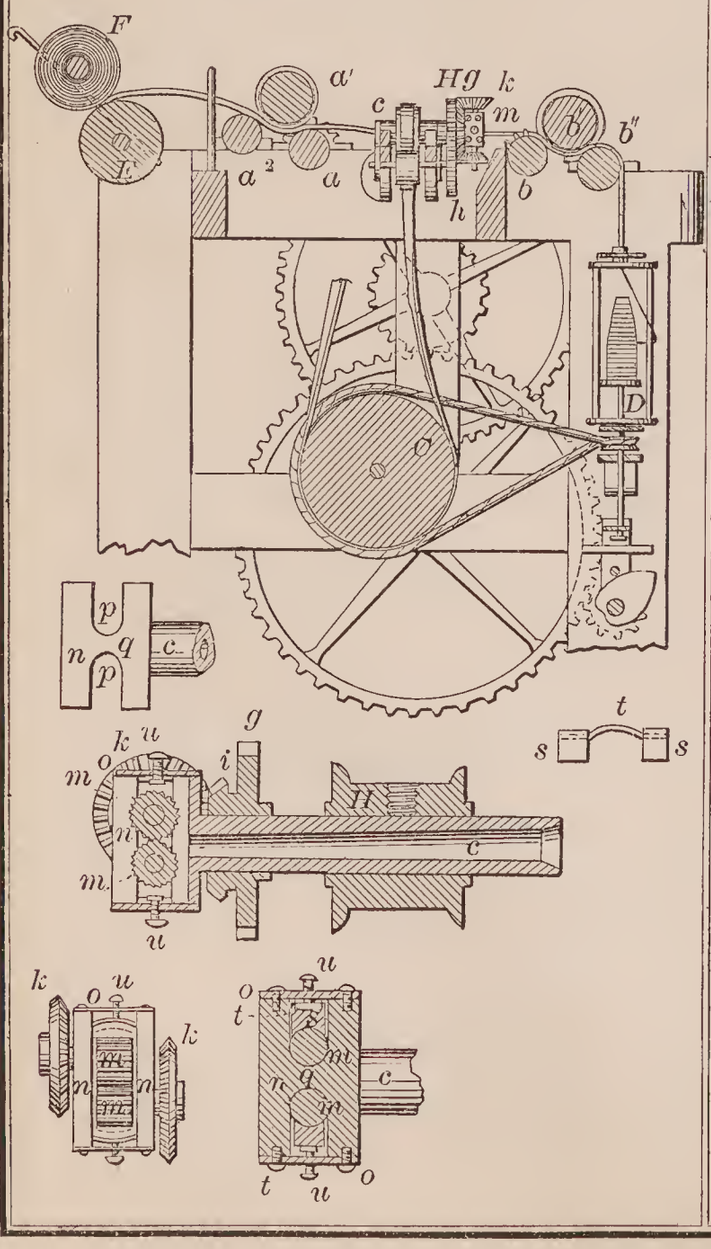
78965—A. R. Hobbs—*Fanning Attachment for Rocking Chairs.*



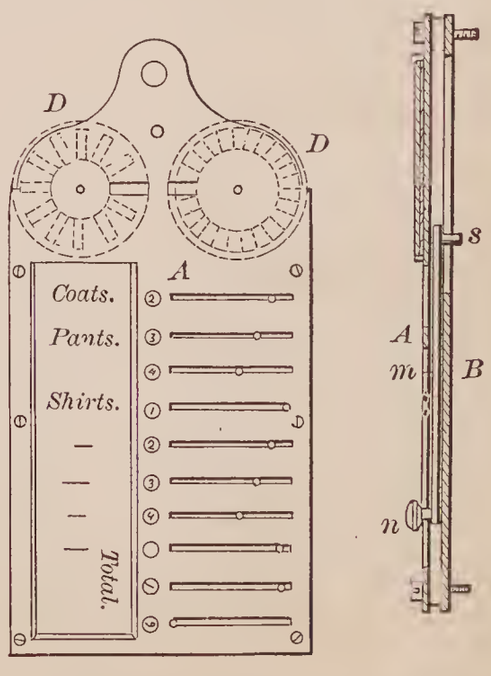
78966—I. Hodgson—*Prison.*



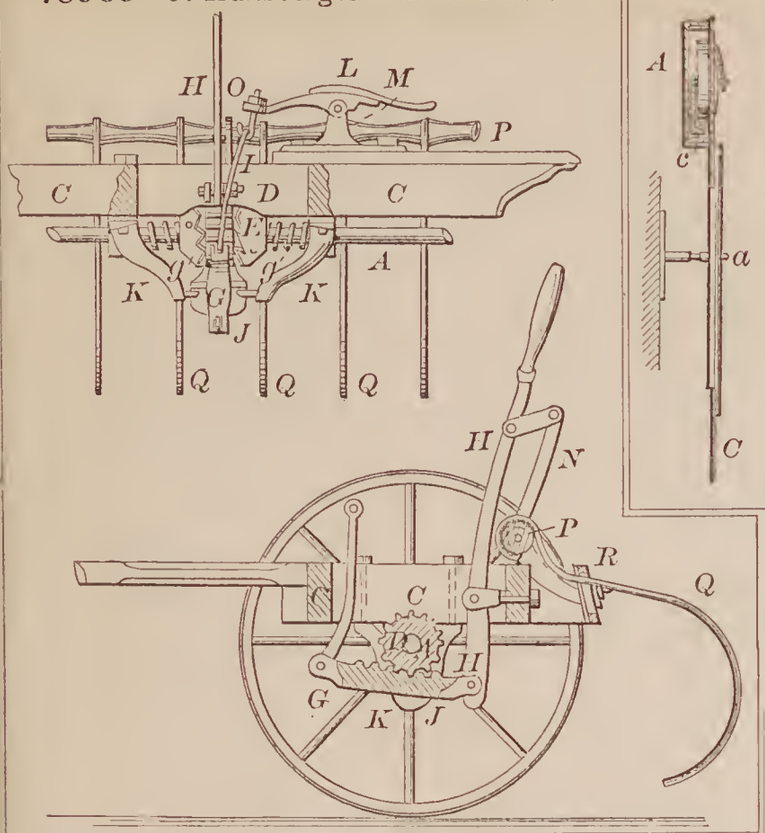
78968—A. L. Houghtaling—*Drawing and Twisting Head.*



78967—J. S. & J. H. Hood—*Perpetual Register.*

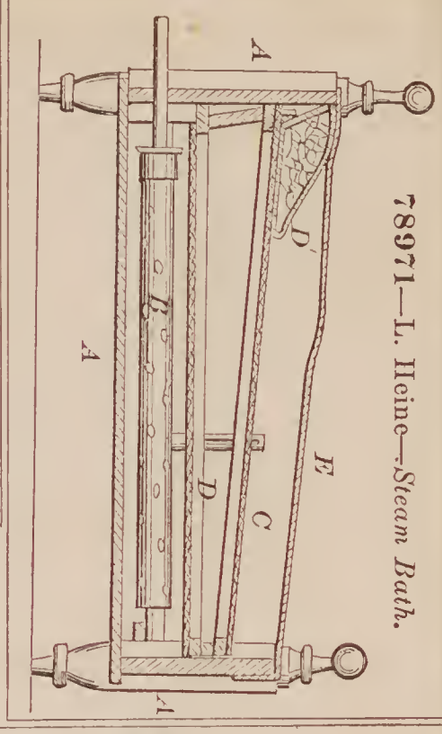


78969—J. Hunsberger—*Horse Rake.*

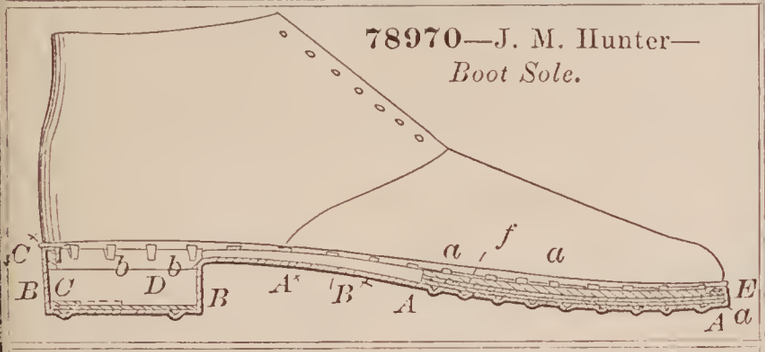


78972—C. King—*Time Piece.*

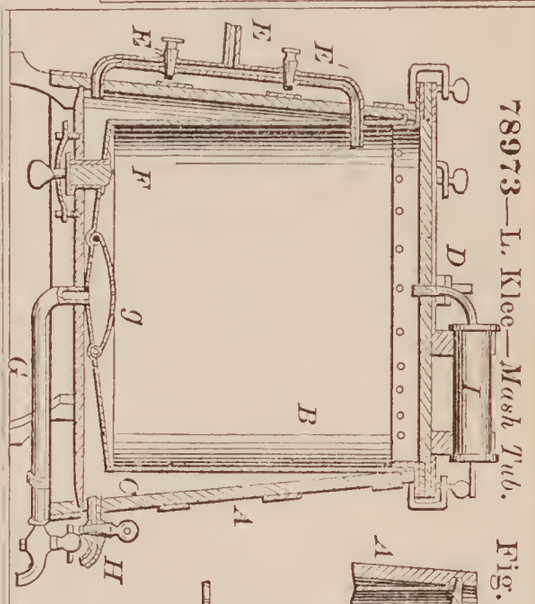
78971—L. Heine—*Steam Bath.*



78970—J. M. Hunter—*Boot Sole.*



78973—L. Klee—*Mash Tub.*



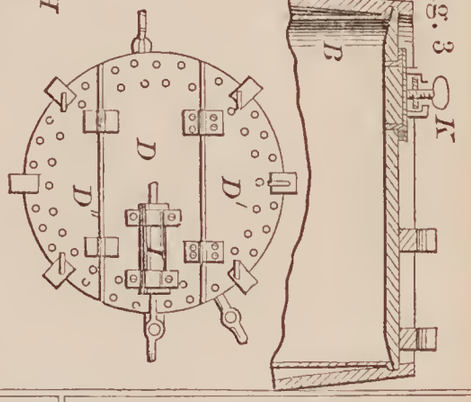
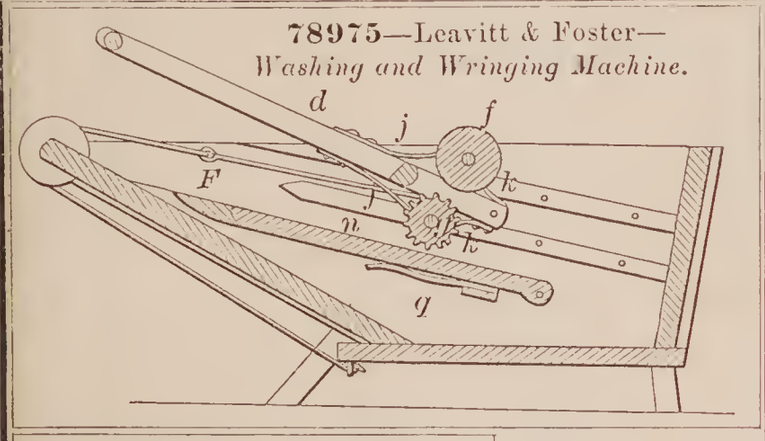
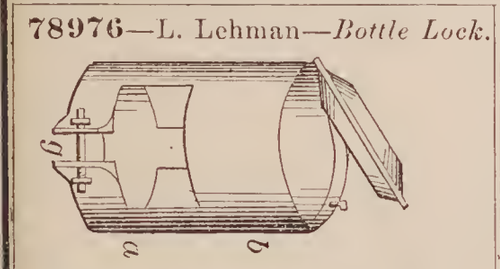


Fig. 3

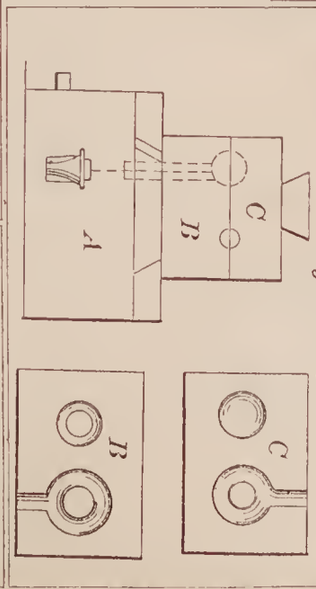
78975—Leavitt & Foster—*Washing and Wringing Machine.*



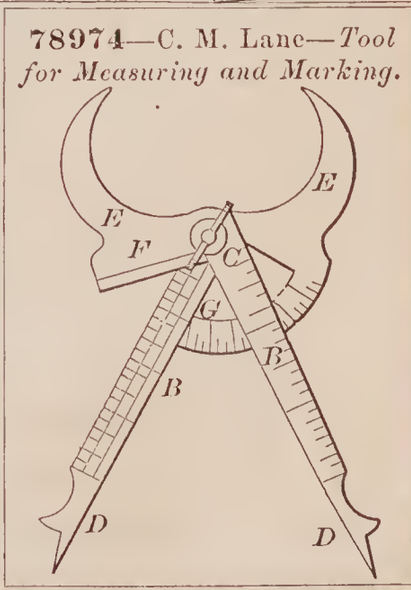
78976—L. Lehman—*Bottle Lock.*



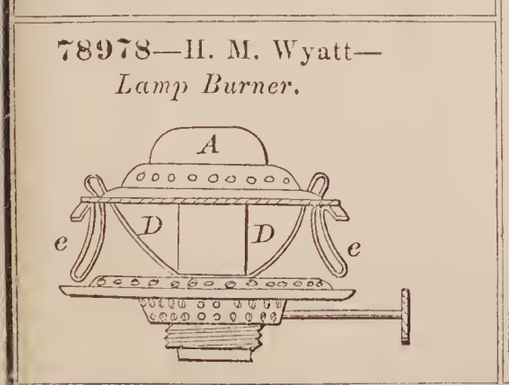
78977—F. Leonard—*Die for Forging Eye Bolts.*



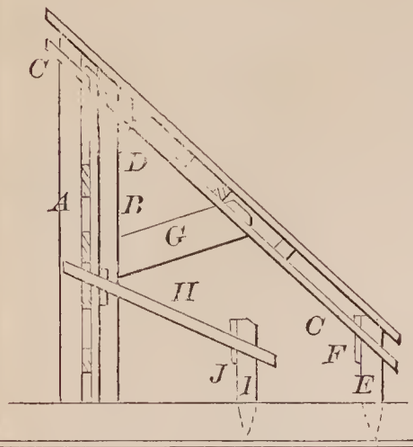
78974—C. M. Lane—*Tool for Measuring and Marking.*



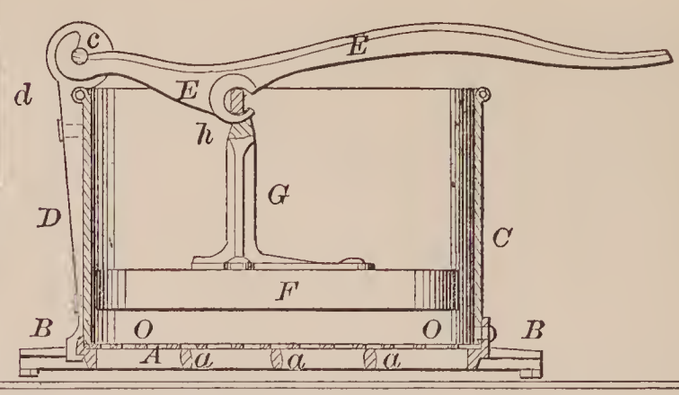
78978—H. M. Wyatt—*Lamp Burner.*



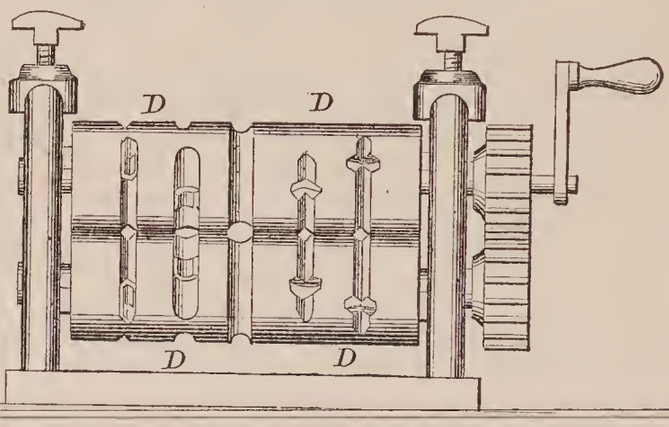
78979—J. Leonard—*Fence.*



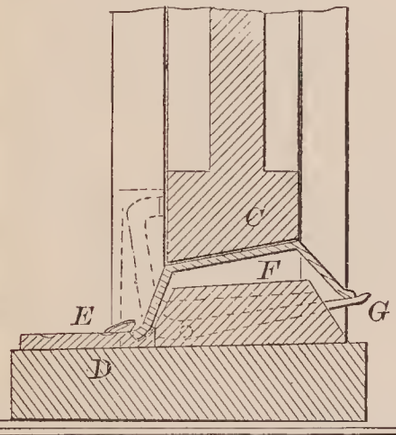
78981—J. H. Littlefield—*Press and Strainer.*



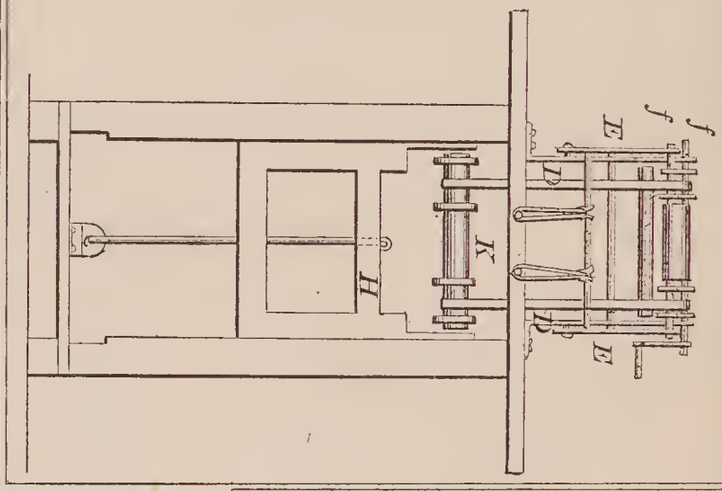
78984—W. S. Mackintosh—*Axle Roller.*



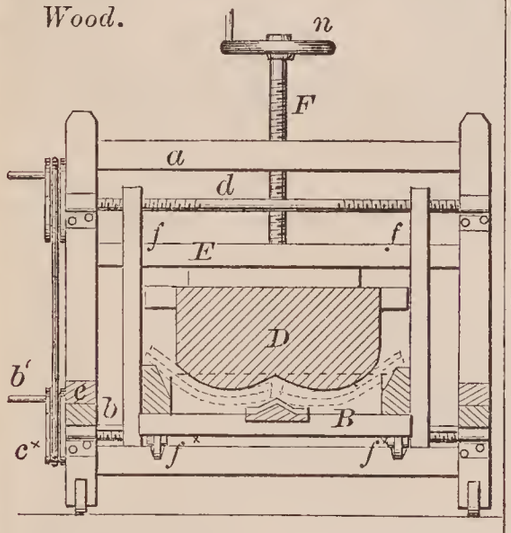
78980—J. E. Lindsley—*Weather Strip.*



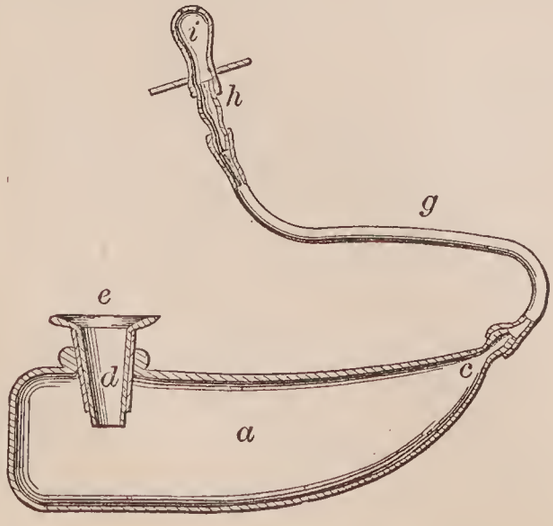
78985—J. & N. Marengo—*For Making Cigars.*



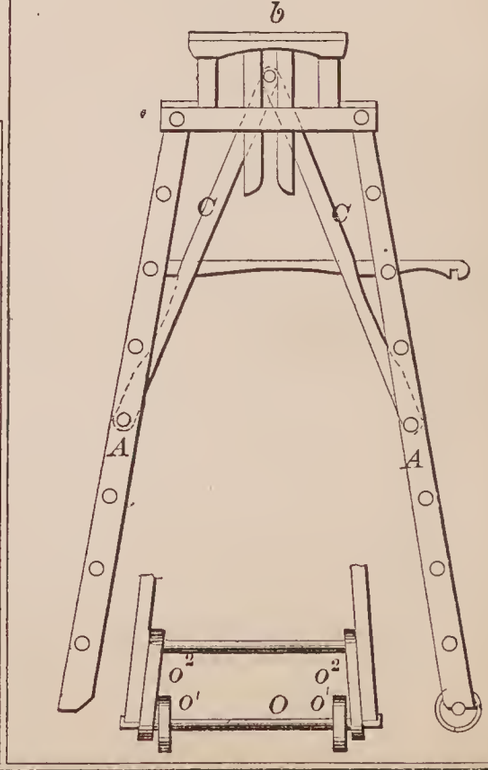
78983—J. G. Lucas—*For Bending Wood.*



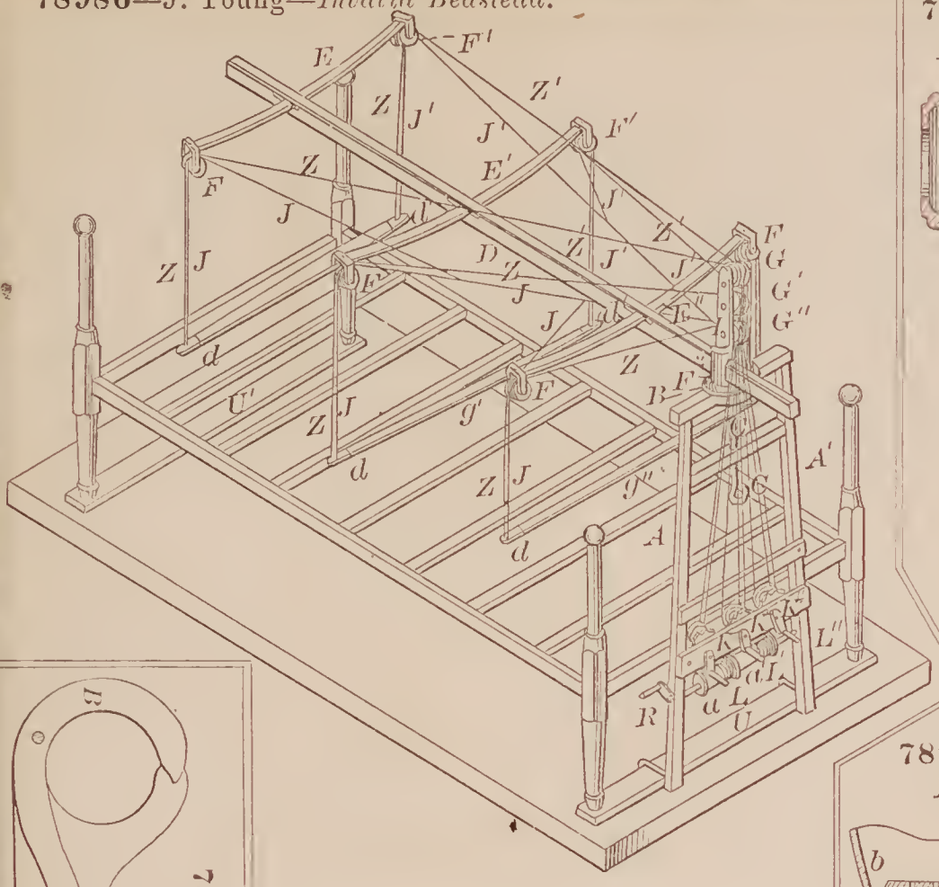
78987—P. J. McElroy—*Nursing Bottle.*



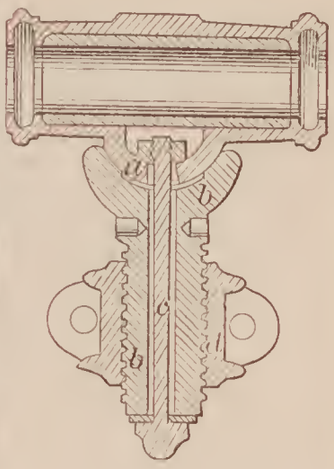
78988—A. C. McKendree—*Ladder.*



78986—J. Young—*Invalid Bedstead.*

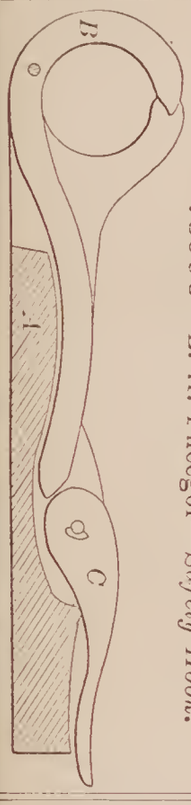


78992—G. V. Orton—*Hanger for Shafting.*

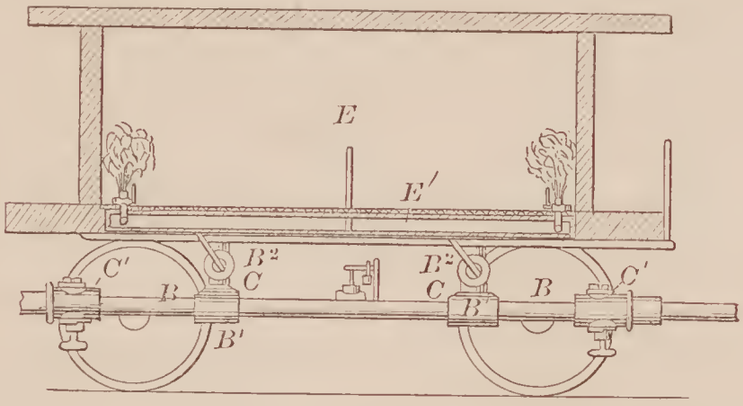


78993—G. T. Palmer—*Bottom for Boilers.*

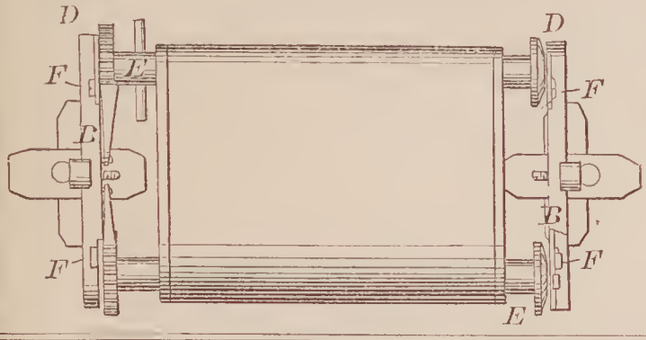
78996—L. H. Pfleegor—*Safety Hook.*



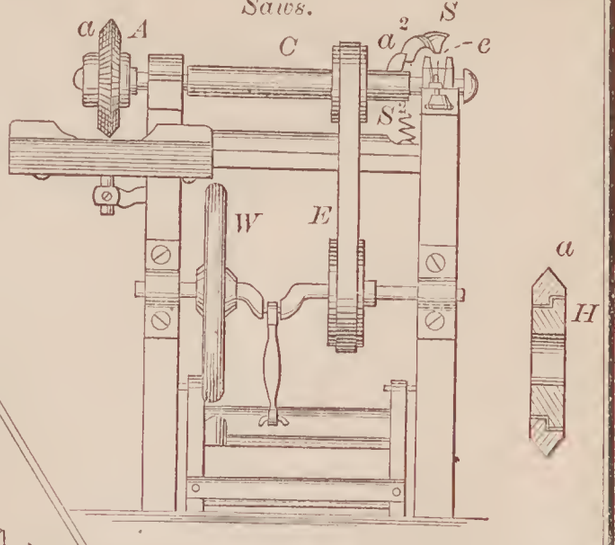
78990—A. C. Miner—*Railroad Car Heater.*



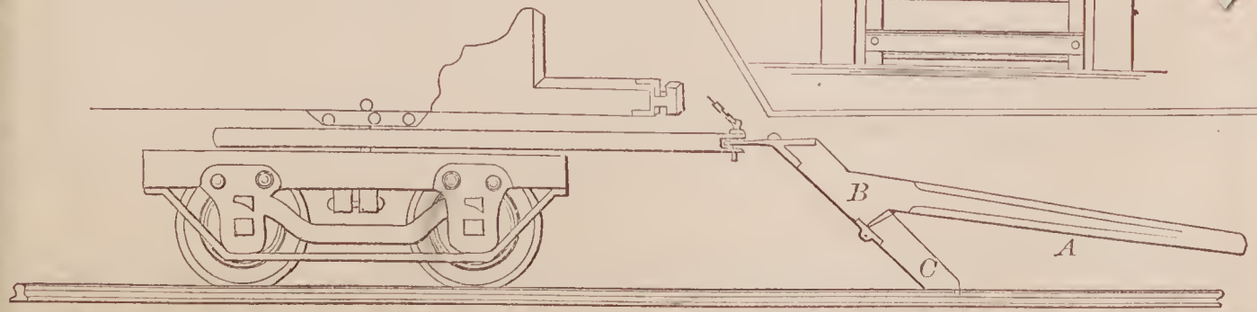
78989—P. H. Mellon—*Quilting Frame.*



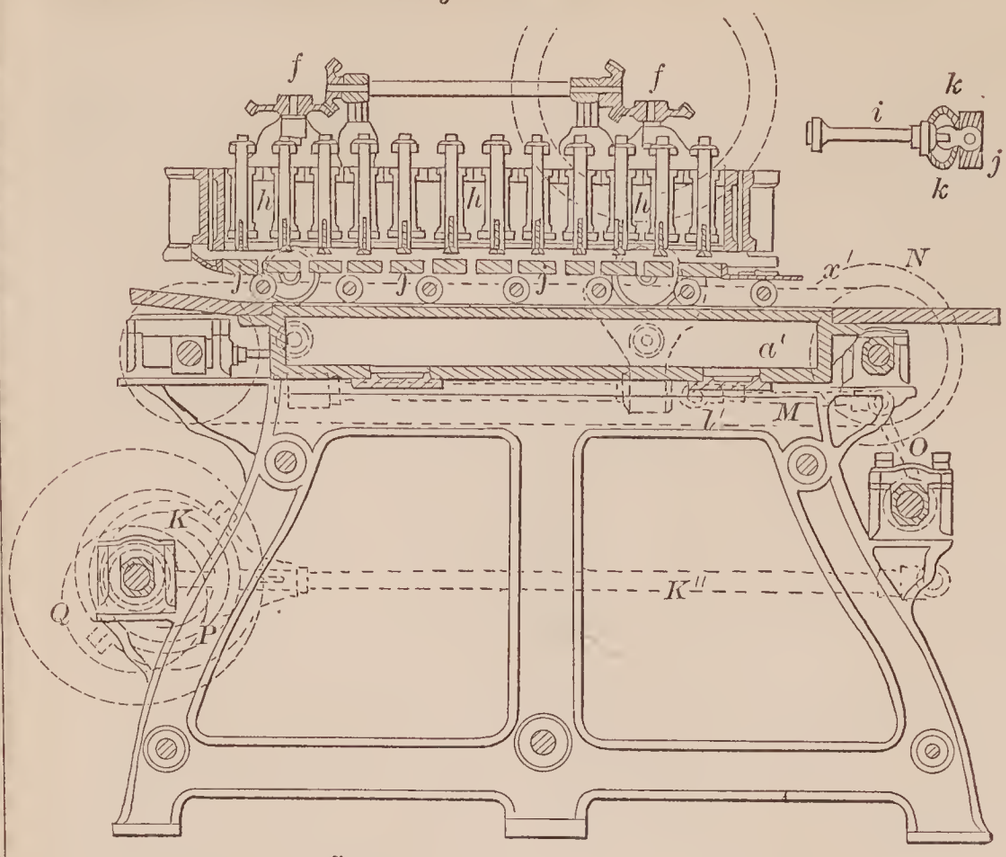
78995—B. P. Pendexter—*For Sharpening Saws.*

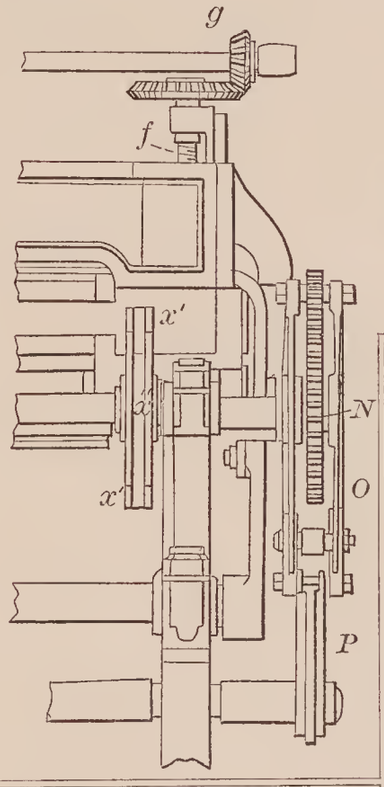


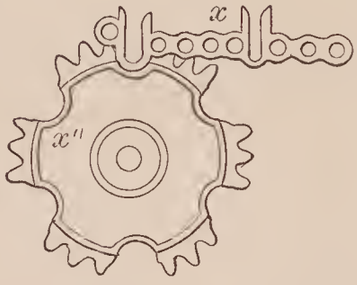
78994—E. C. Patterson—*Railroad Car Jack.*



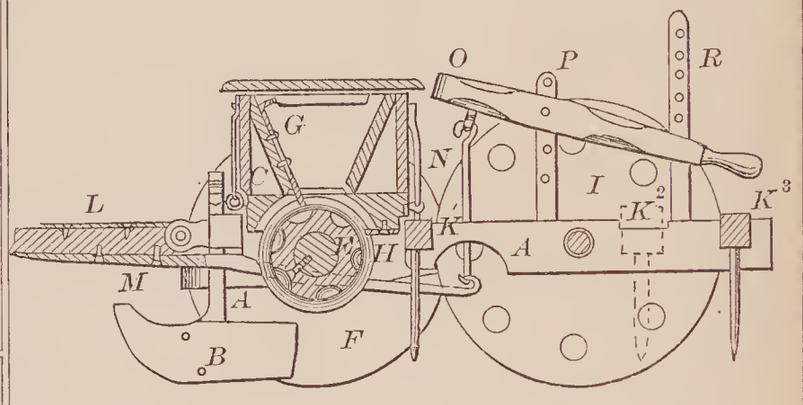
78991—C. Mossant—*Felting Machine.*

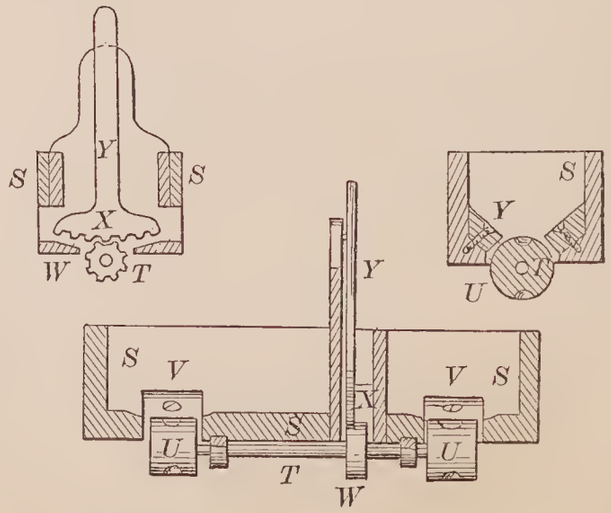




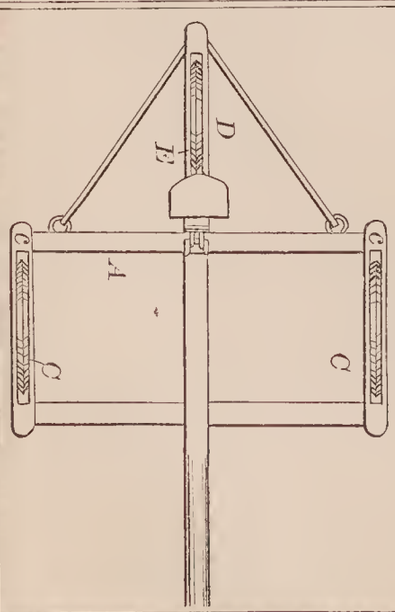


78998—D. B. Platt—*Harrow, Drill, Planter and Roller.*

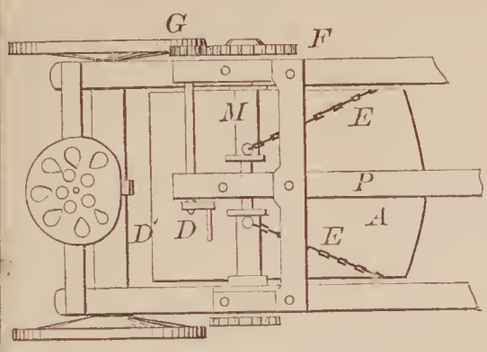




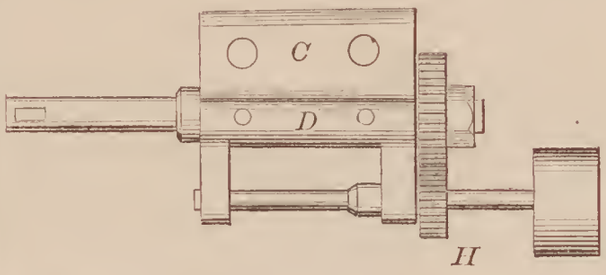
78997—W. E. Phelps—*Corn Marker.*

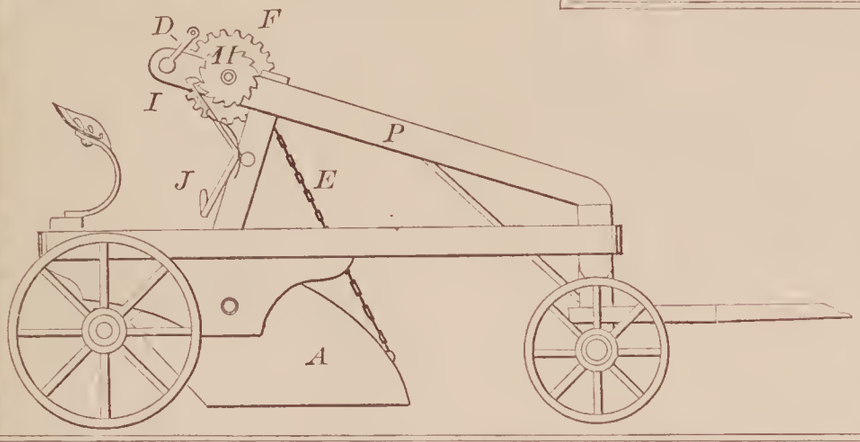


78999—F. Post—*Scraper.*

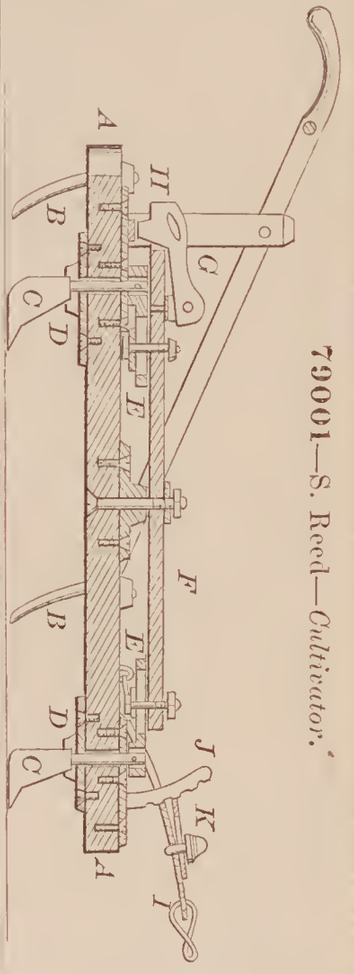


79000—G. Raft—*For Fitting Wrist Pins.*

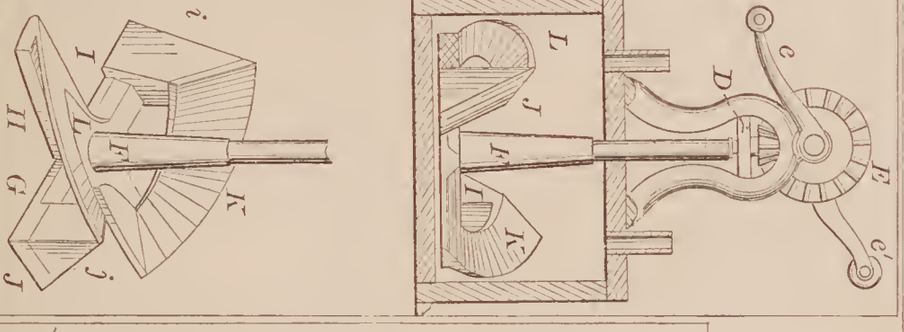




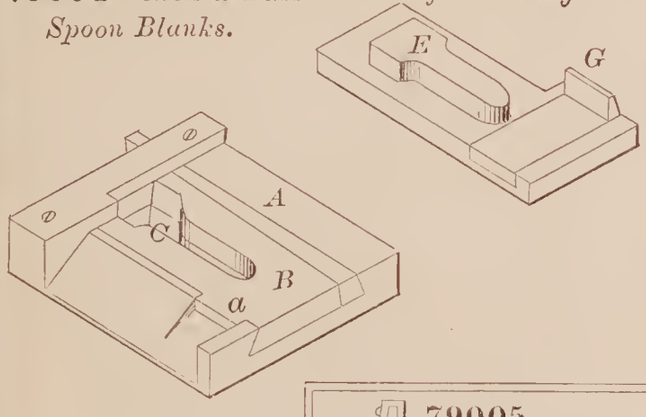
79001—S. Reed—*Cultivator.*



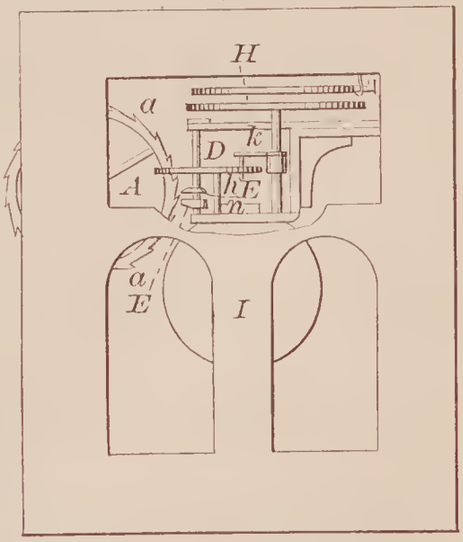
79002—C. C. Reese—*Churn.*



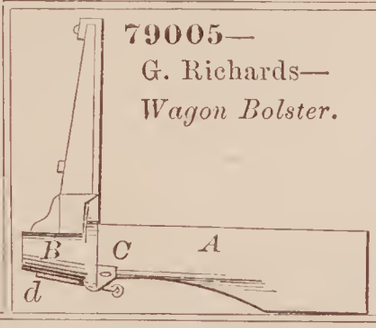
79004—Rich & Bassett—*Die for Cutting Spoon Blanks.*



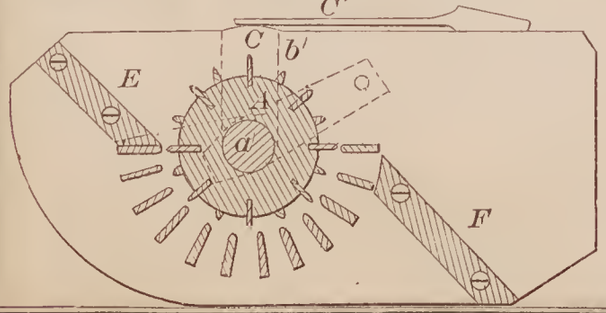
79003—C. Reinhart—*Clock Escapement.*

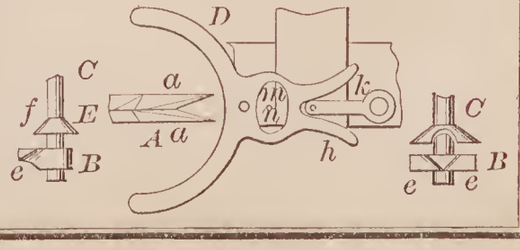


79005—G. Richards—*Wagon Bolster.*

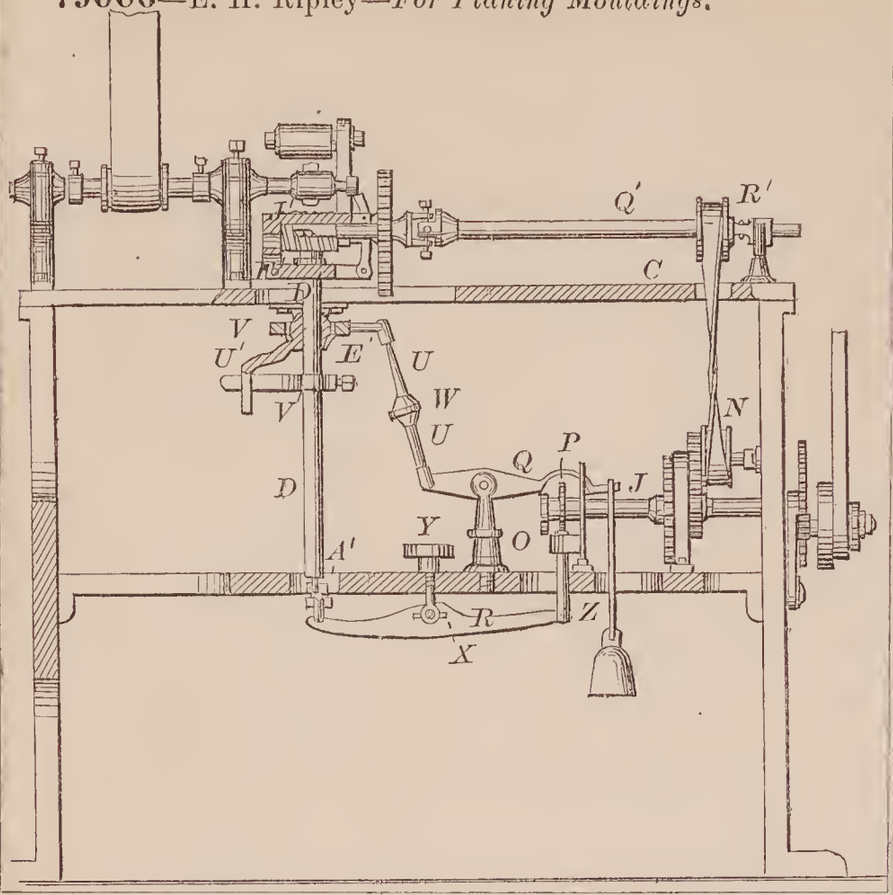


79007—W. Roberts—*Corn Sheller.*

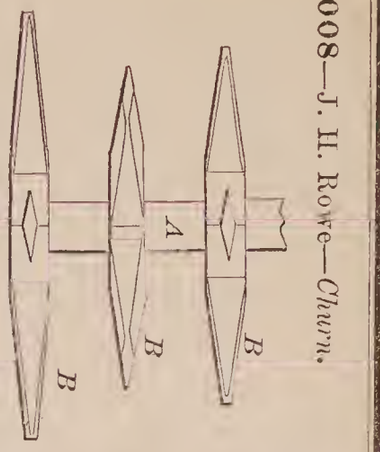




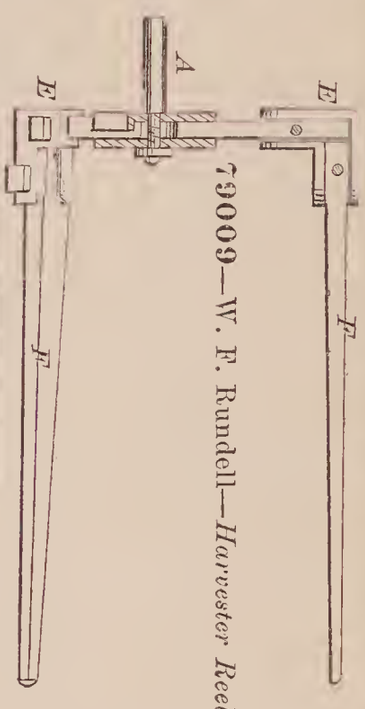
79006—E. H. Ripley—*For Planing Mouldings.*



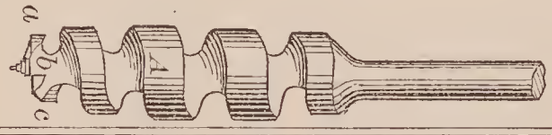
79008—J. H. Rowe—*Churn.*



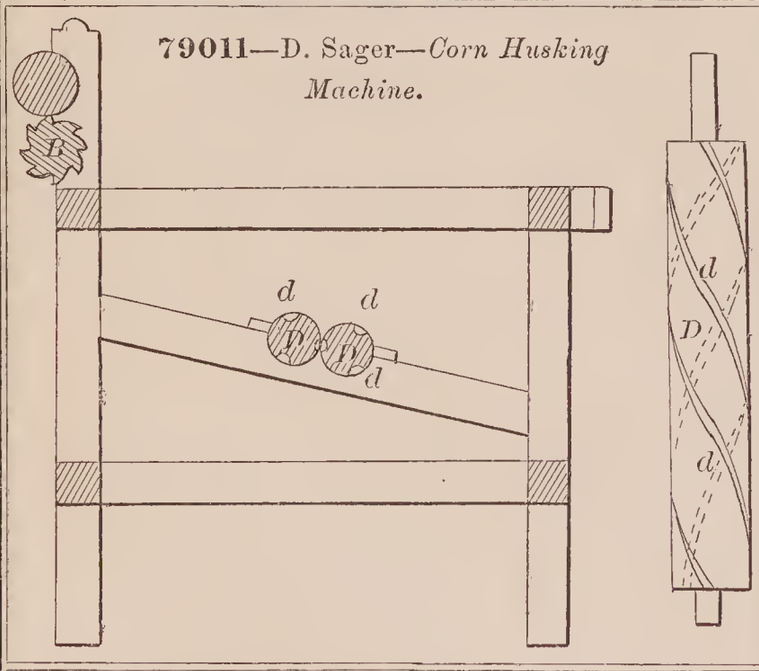
79009—W. F. Rundell—*Harvester Reel.*



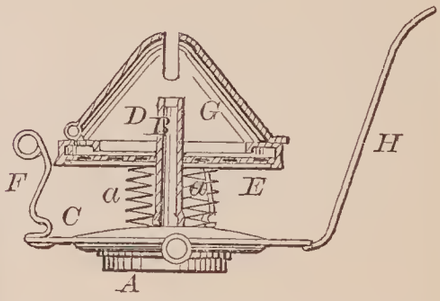
79012—N. C. Sanford—*Auger.*



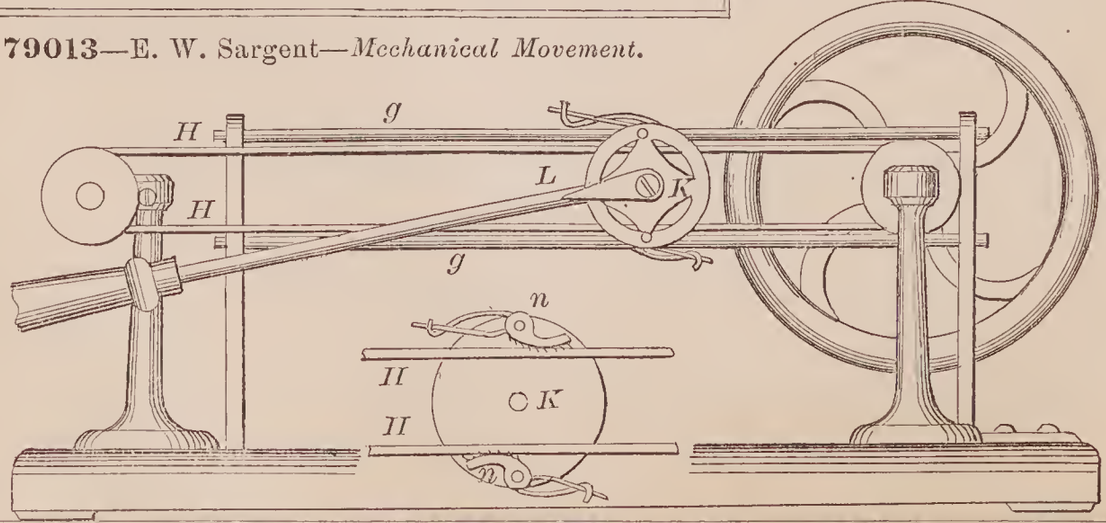
79011—D. Sager—*Corn Husking Machine.*



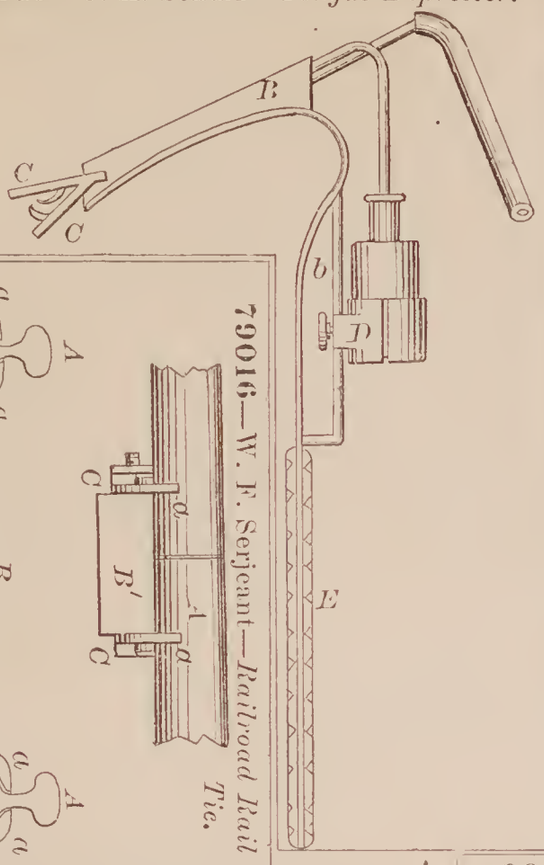
79014—J. W. Schreiber—*Lamp Burner.*



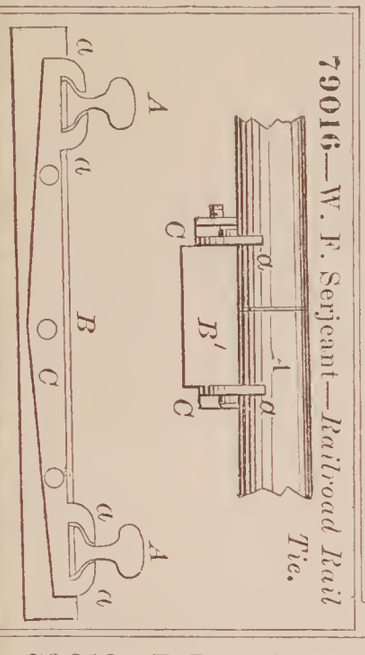
79013—E. W. Sargent—*Mechanical Movement.*



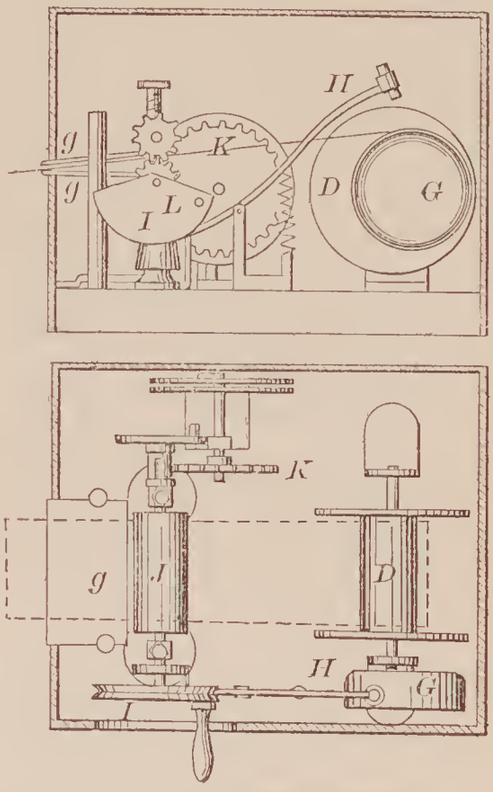
79015—O. A. Schulz—*Tongue Depresser.*



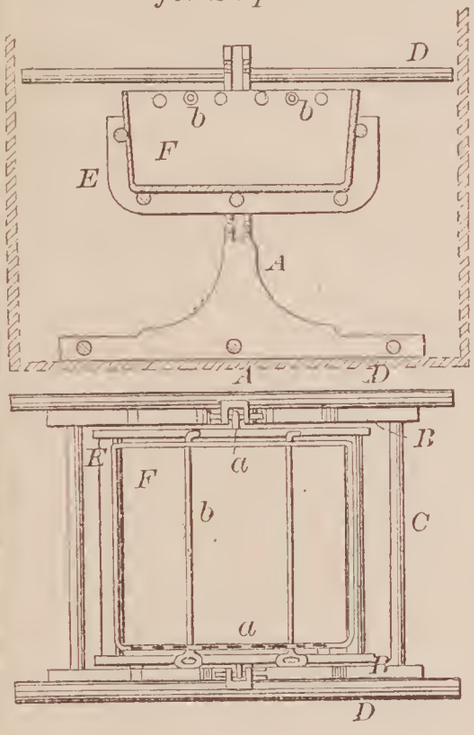
79016—W. F. Serjeant—*Railroad Rail Tie.*



79017—Sichel & Feust—*Ticket Register.*

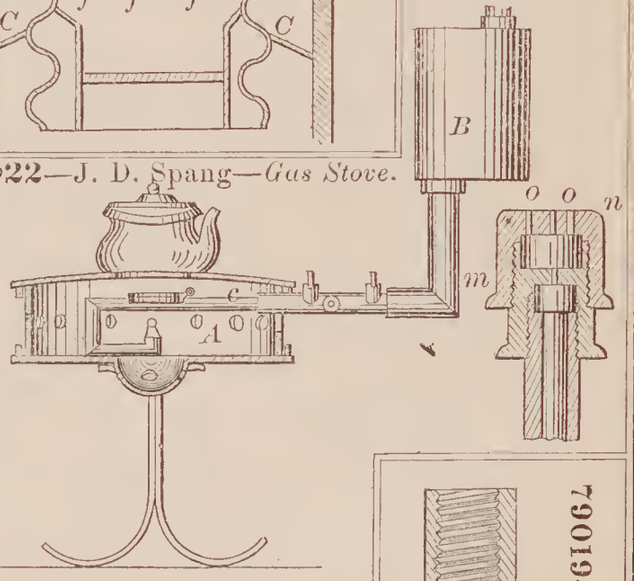


79018—F. L. A. Smith—*Oven Rack for Ship Stoves.*

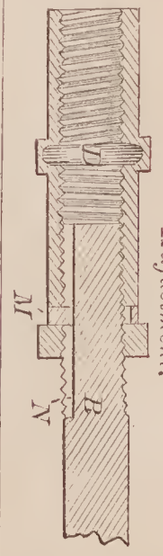


79020—S. Smith—*Furnace.*

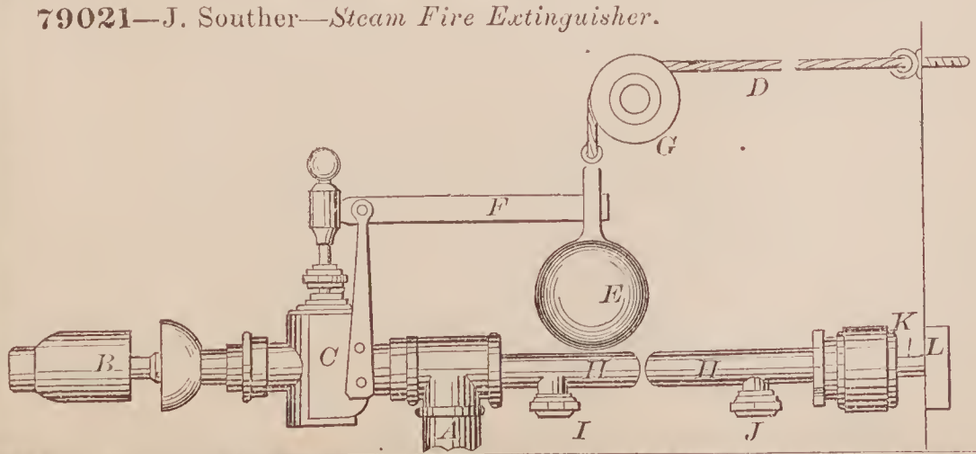
79022—J. D. Spang—*Gas Stove.*



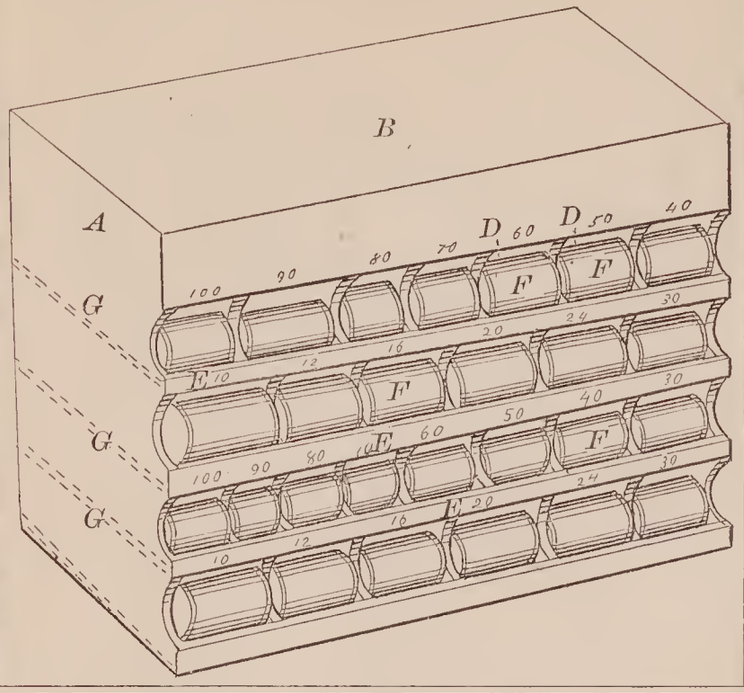
79019—R. D. O. Smith—*Connecting Rod Adjustment.*



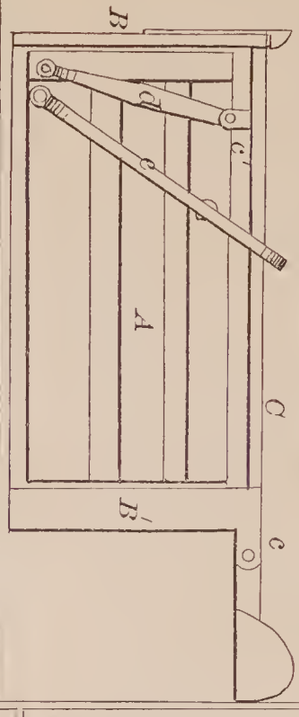
79021—J. Souther—*Steam Fire Extinguisher.*



79023—A. Steward—*Thread Show Case.*

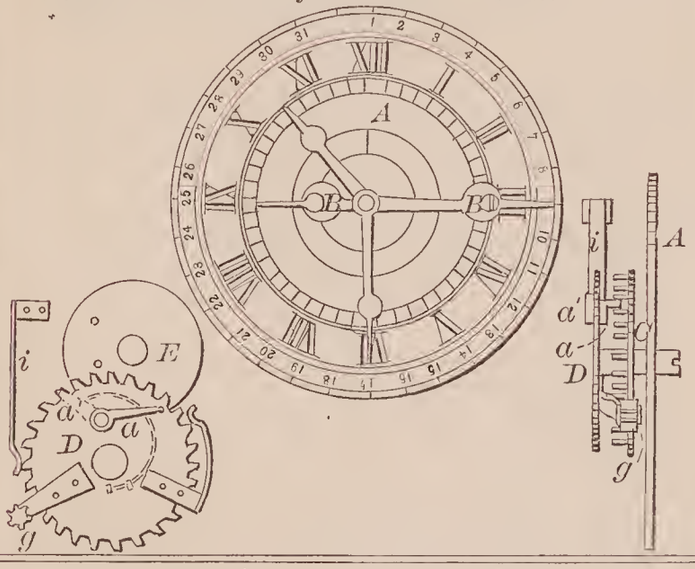


79025—A. Taylor—*Farm Gate.*

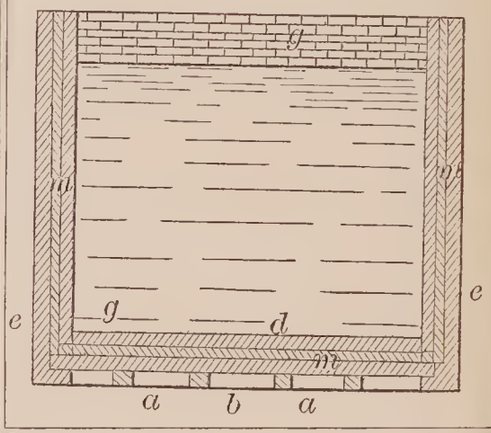


79029—W. R. Thomas—*Car Wheel.*

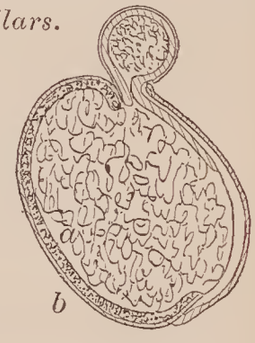
79026—W. A. Terry—*Calendar Clock.*



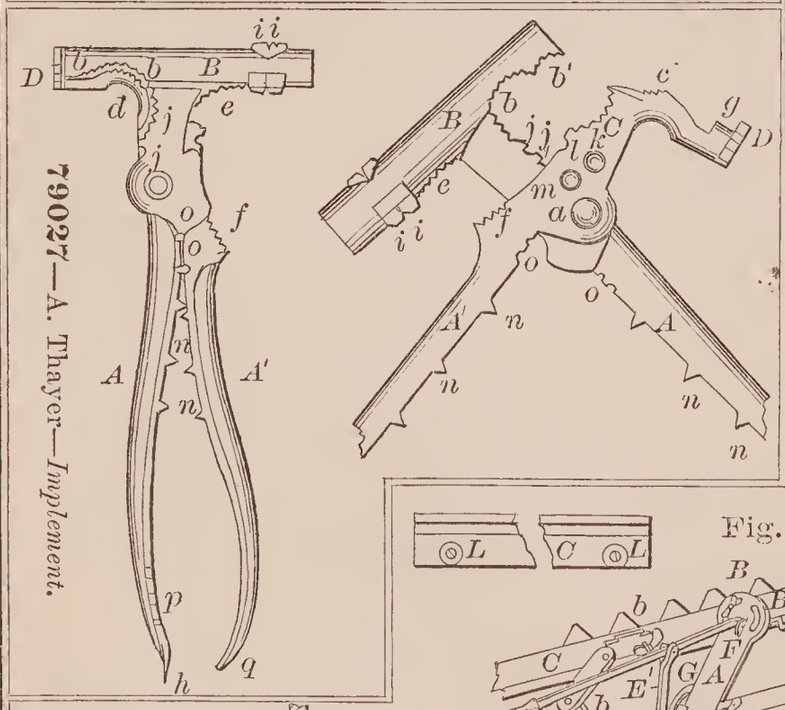
79028—M. Thode—*Subterranean Wall.*



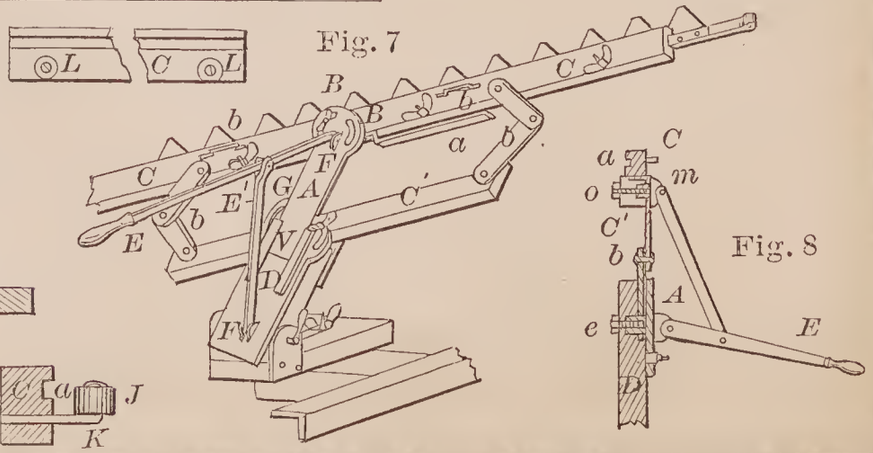
79024—E. Sullivan—*For Covering Horse Collars.*



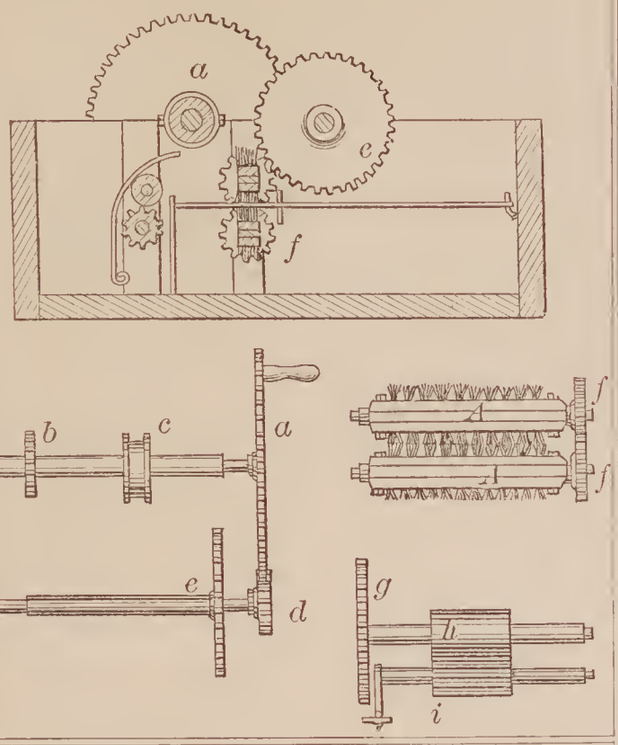
79027—A. Thayer—*Implement.*



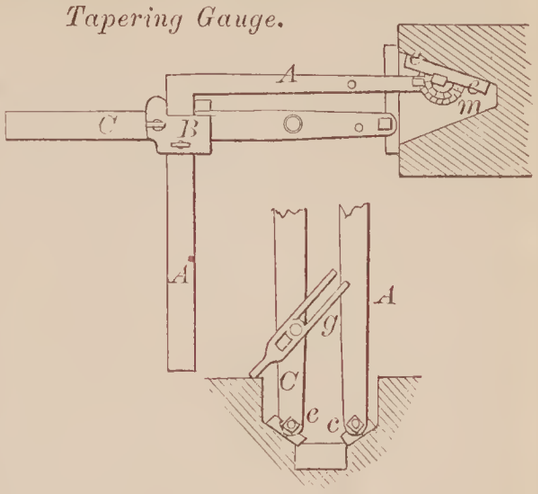
79030—J. A. Thompson—*For Grinding Mowing Machine Knives.*



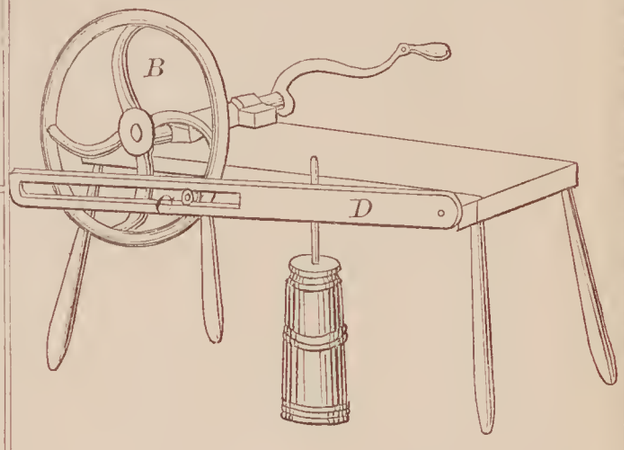
79031—J. A. Thompson—*For Cleaning Intestines of Animals.*



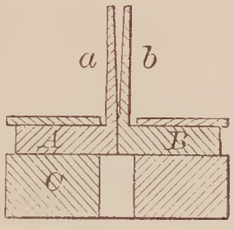
79032—D. H. Tierney—*Bevel and Tapering Gauge.*



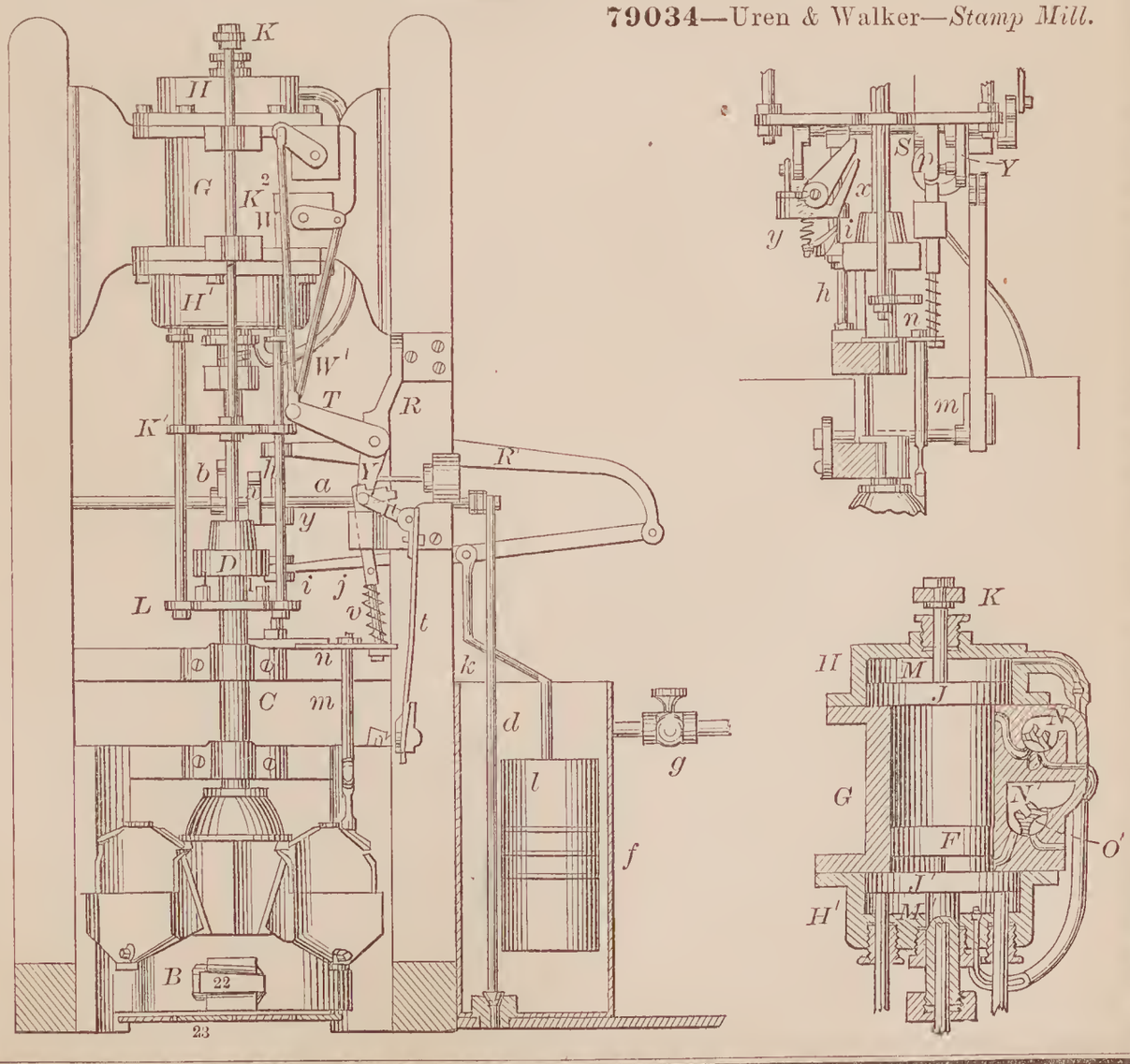
79035—W. H. & L. Waddell—*Churn.*



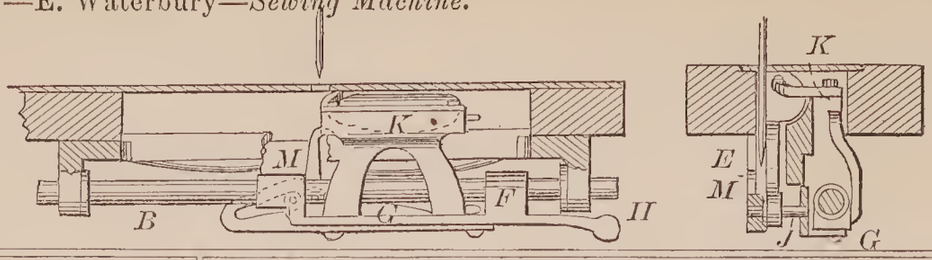
79036—W. Wallace—*For Forming Lamp Tubes.*



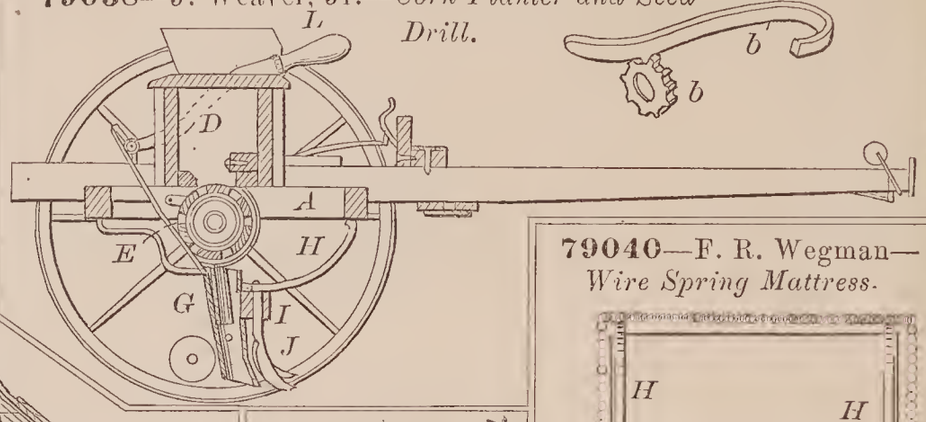
79034—Uren & Walker—*Stamp Mill.*



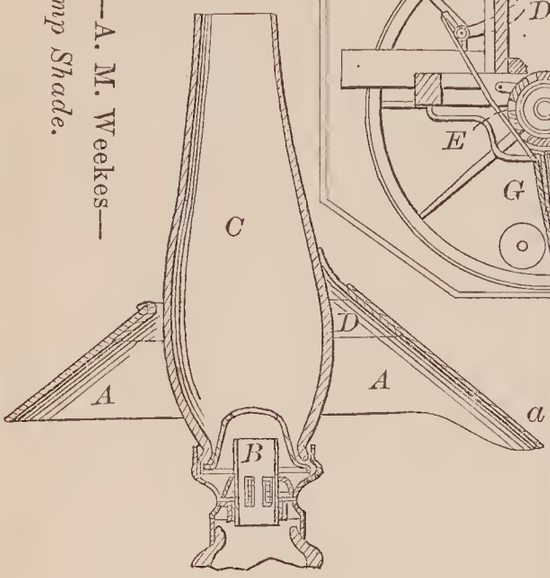
79037—E. Waterbury—*Sewing Machine.*



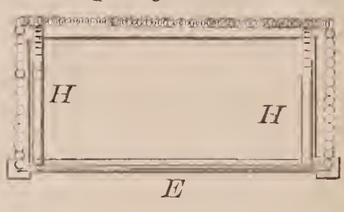
79038—J. Weaver, Jr.—*Corn Planter and Seed Drill.*

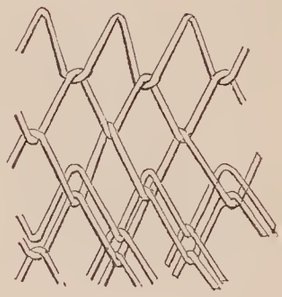


79039—A. M. Weekes—*Lamp Shade.*

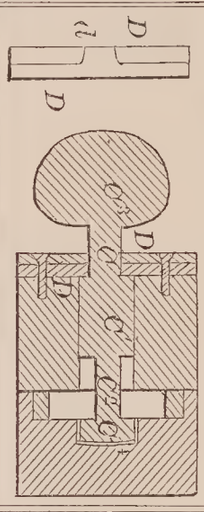


79040—F. R. Wegman—*Wire Spring Mattress.*

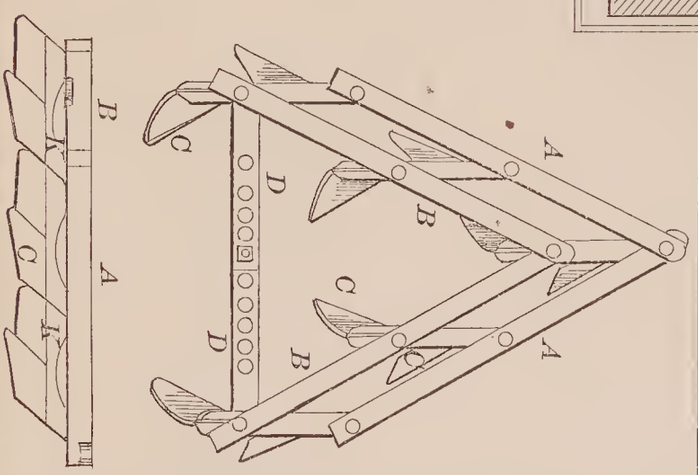




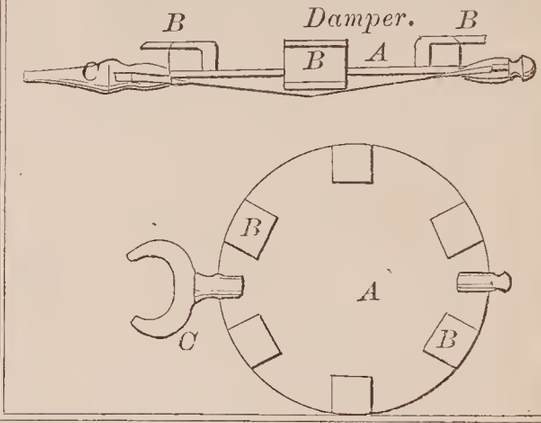
79047—F. Zell—*Shutter Fastening.*



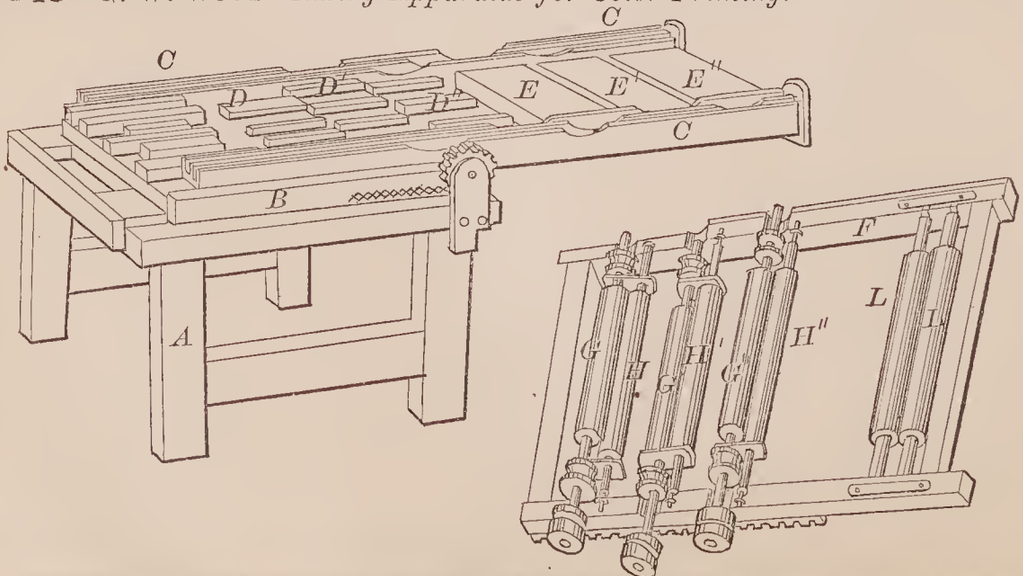
79042—F. R. Willson—*Harrow.*



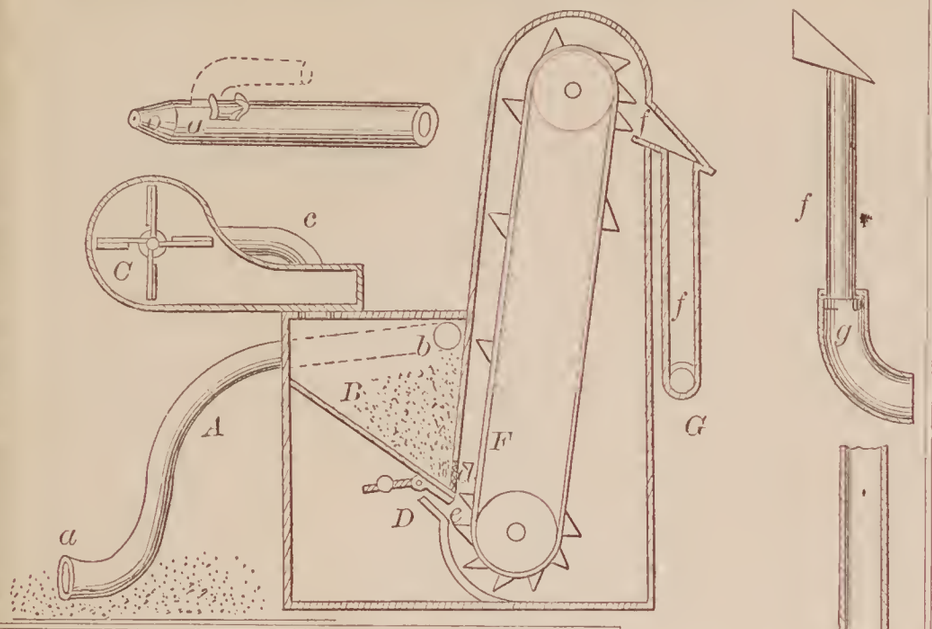
79041—D. A. White—*Stove Pipe Damper.*



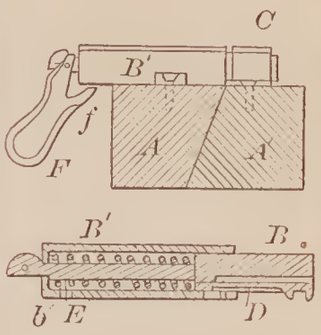
79043—G. W. Wood—*Inking Apparatus for Color Printing.*



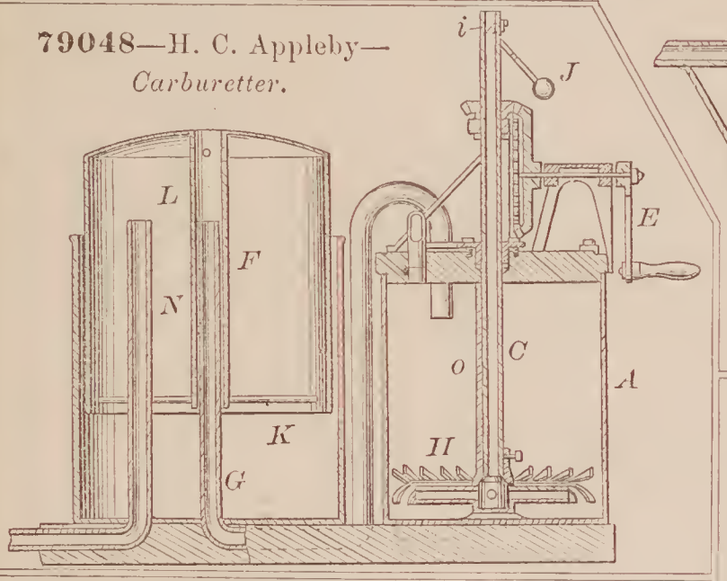
79044—S. W. Wood—*Pneumatic Grain Elevator.*



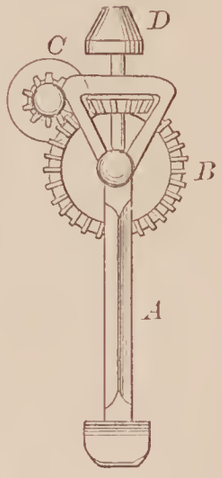
79046—F. Zell—*Sash Fastener.*



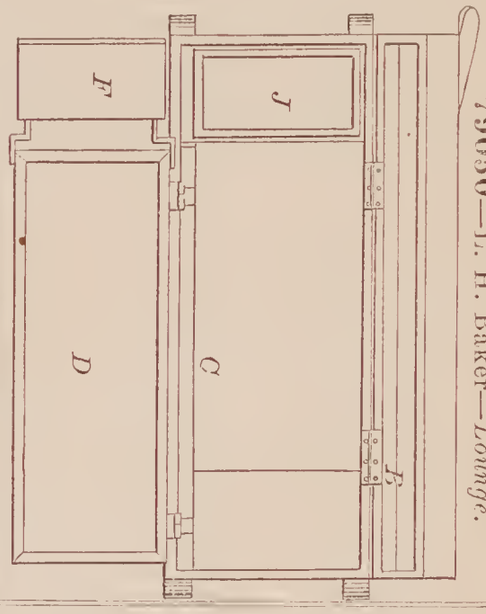
79048—H. C. Appleby—*Carburetter.*



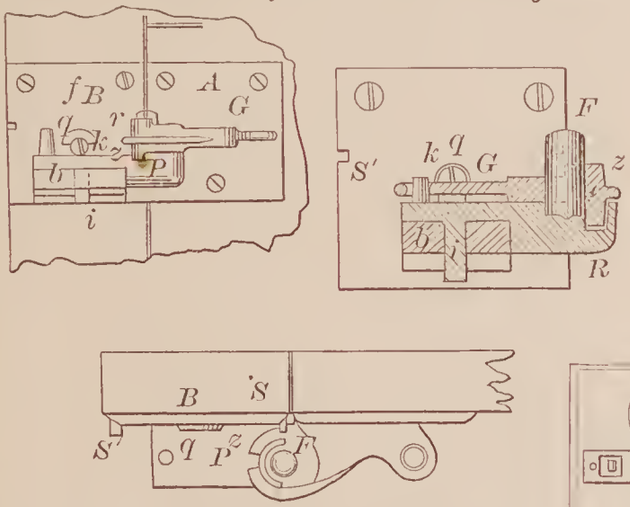
79049—D. W. Ayres—*For Grinding Tools.*



79050—L. H. Baker—*Lounge.*



79051—E. H. Benjamin—*Shutter Hinge.*



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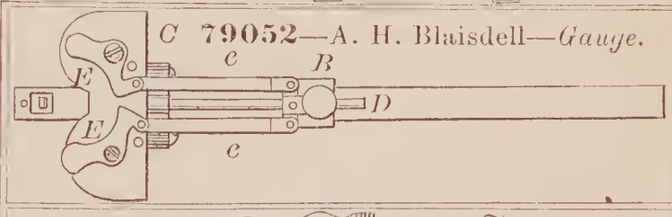
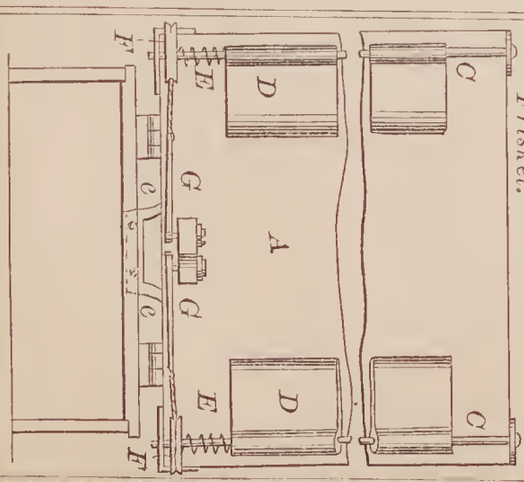
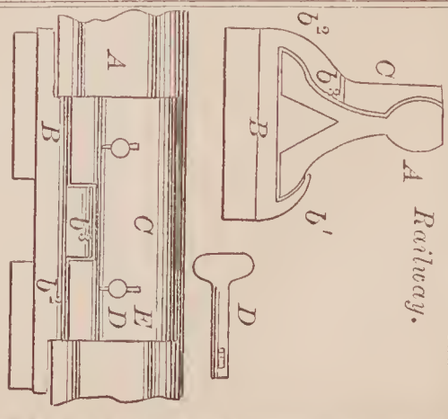


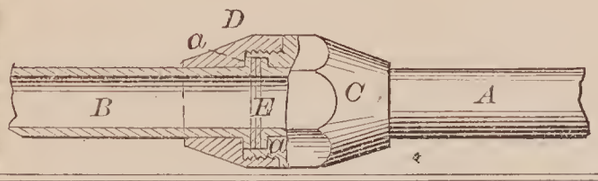
79053—Castle & Conner—*Frisket.*



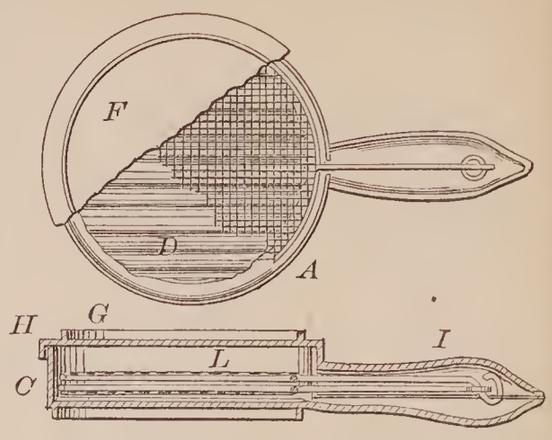
79054—J. G. Cross—*Railway.*



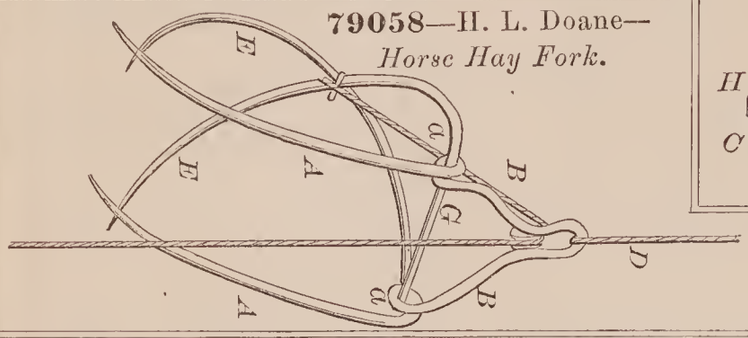
79055—I. Davis—*Connection for Soft Metal Pipes.*



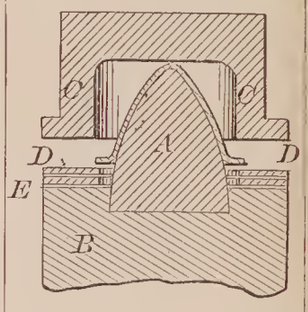
79056—C. Denn—*Gridiron.*



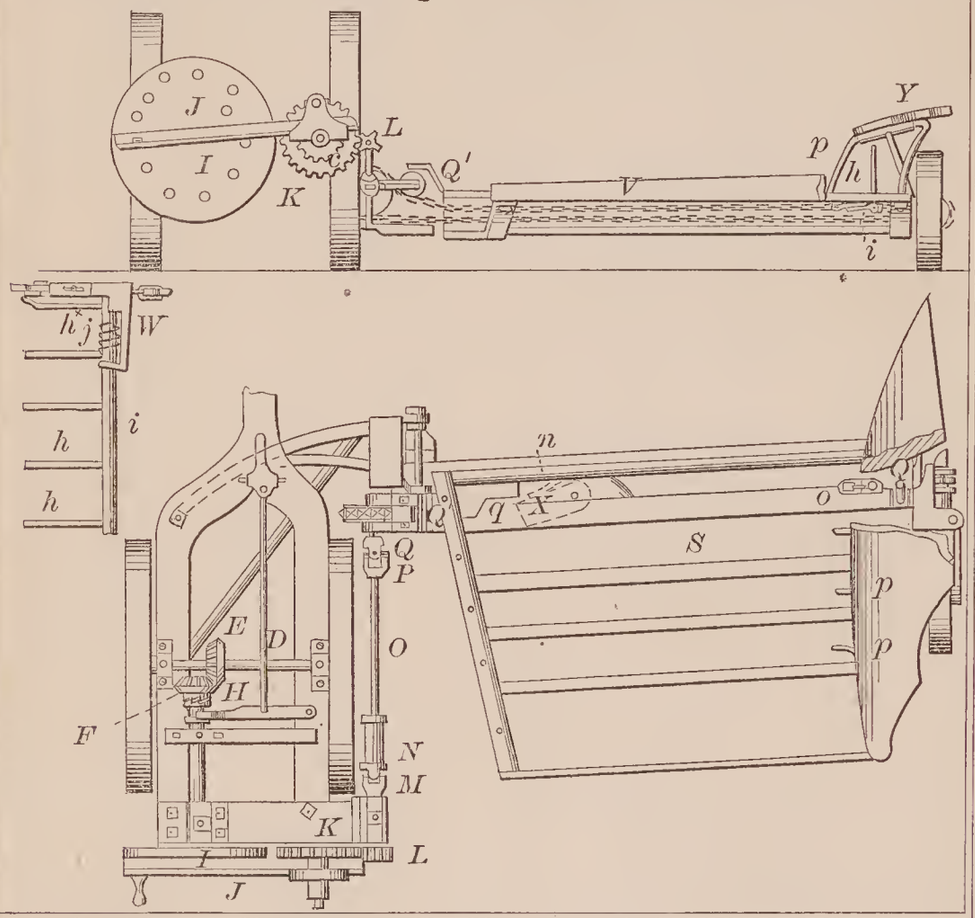
79058—H. L. Doane—*Horse Hay Fork.*



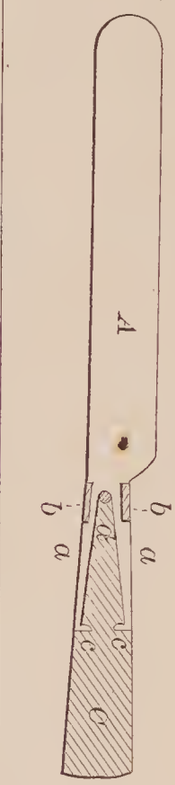
79059—J. Eberhardt—*Hat Blocking Machine.*



79057—H. F. W. Deterding—*Harvester Rake.*

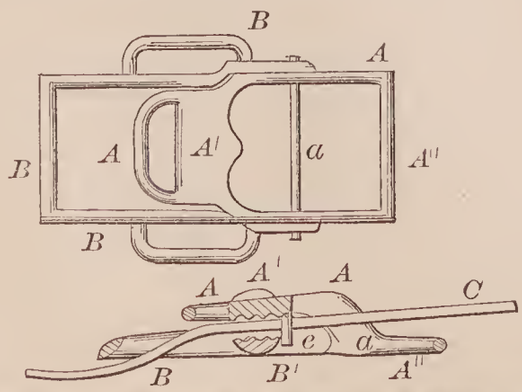


79061—R. H. Fisher—*Cutlery.*

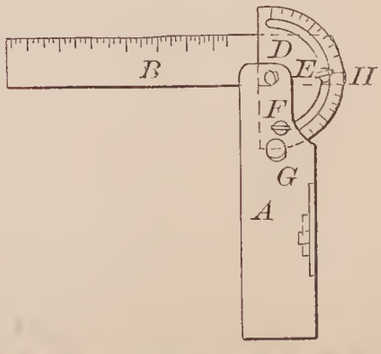


79063—T. J. Flagg—*Necktie and Watch Guard.*

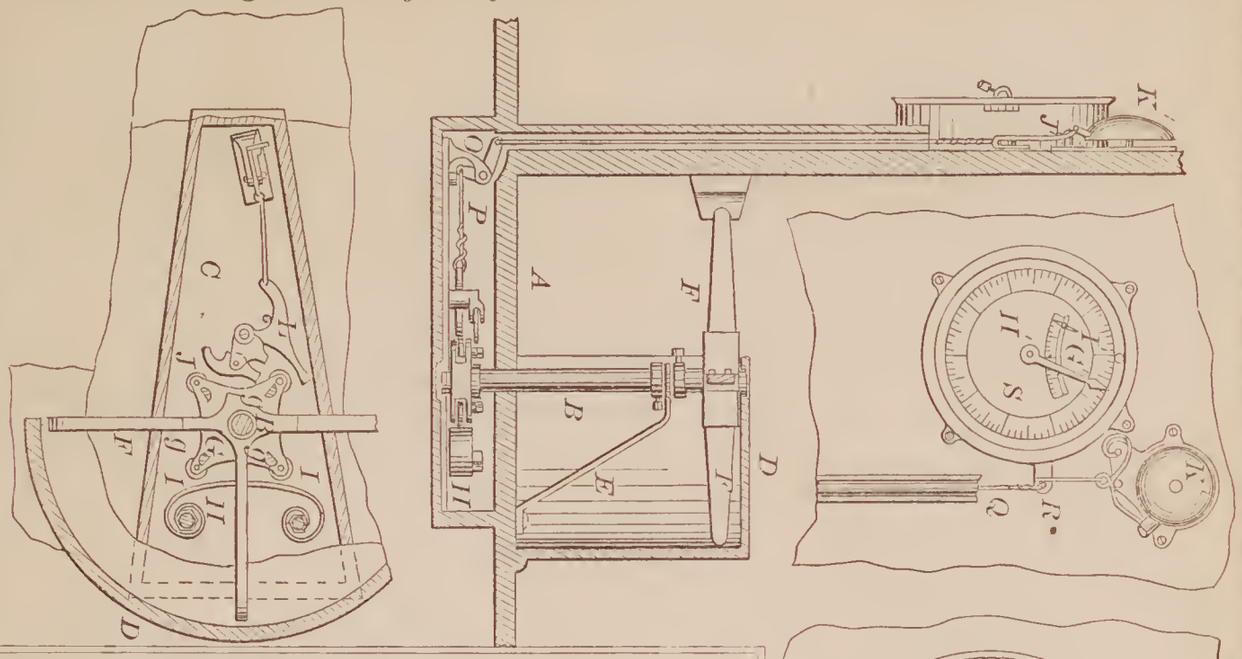
79064—M. Gayhart—*Trace Buckle.*



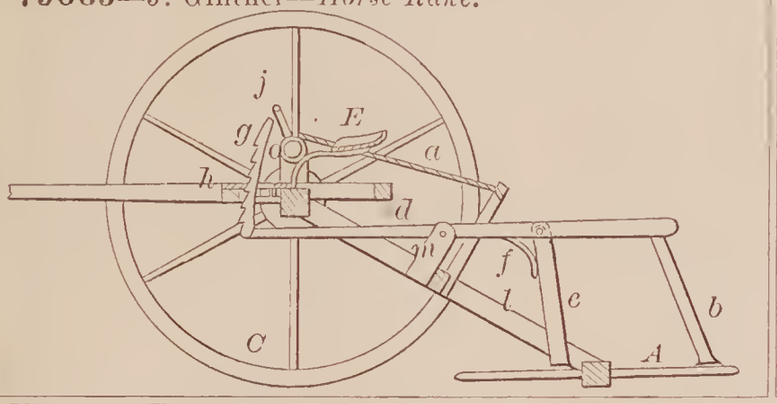
79062—W. T. Fisher—*Bevel Square.*

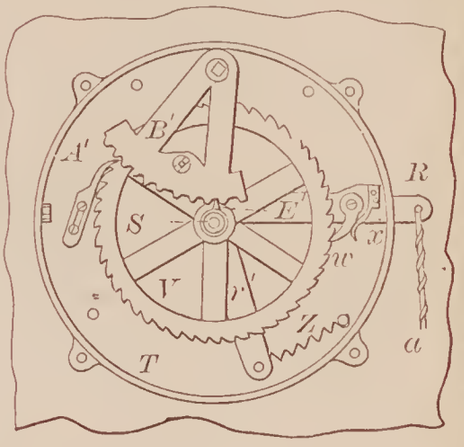


79060—J. Enright—*Passenger Register.*

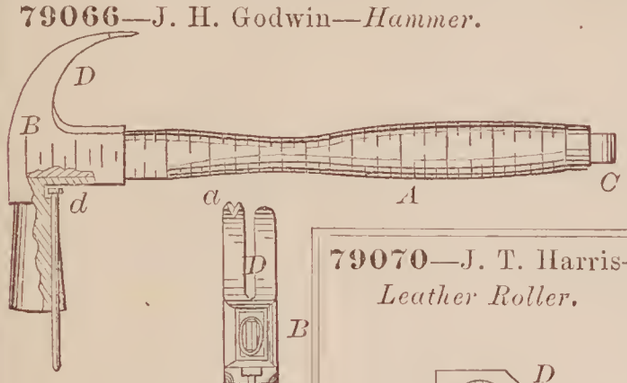


79065—J. Ginther—*Horse Rake.*

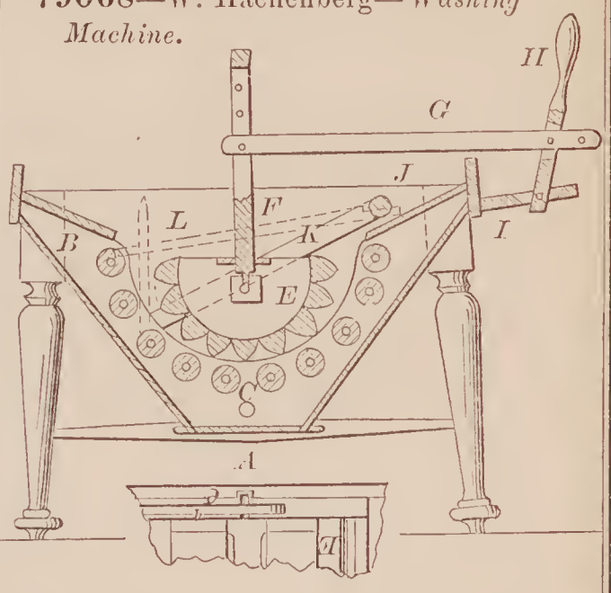




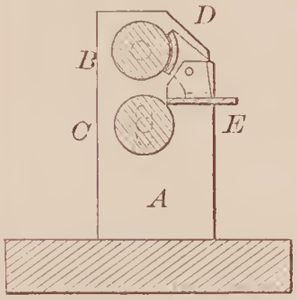
79066—J. H. Godwin—*Hammer.*



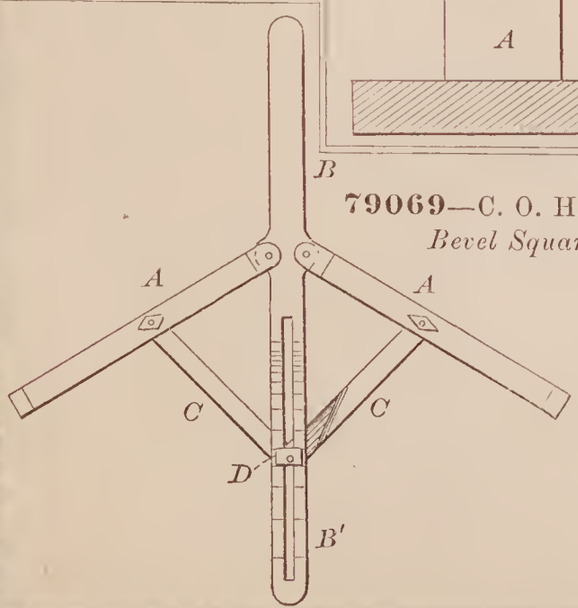
79068—W. Hachenberg—*Washing Machine.*



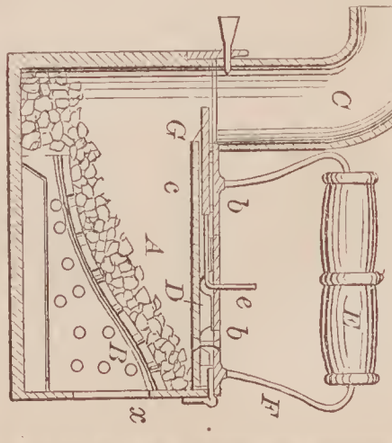
79070—J. T. Harris—*Leather Roller.*



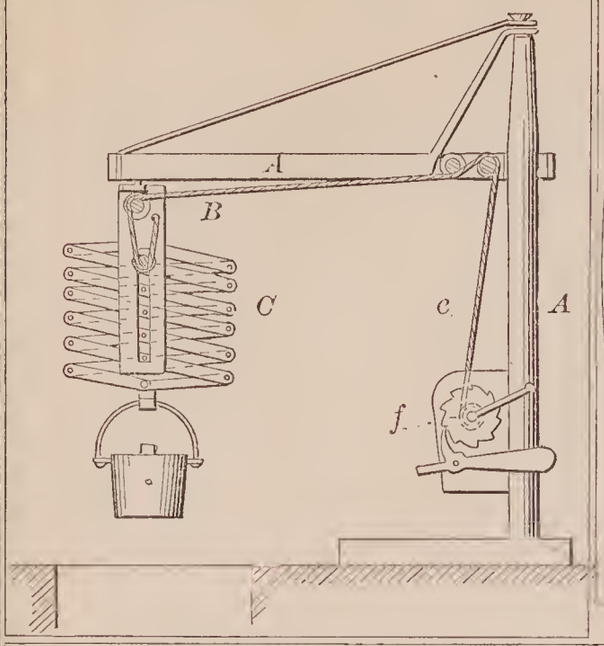
79069—C. O. Hansen—*Bevel Square.*



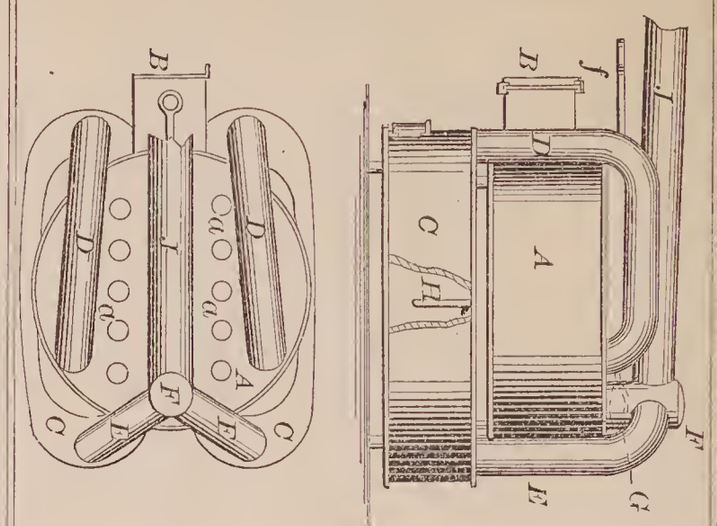
79067—J. Gray—*Sad Iron.*



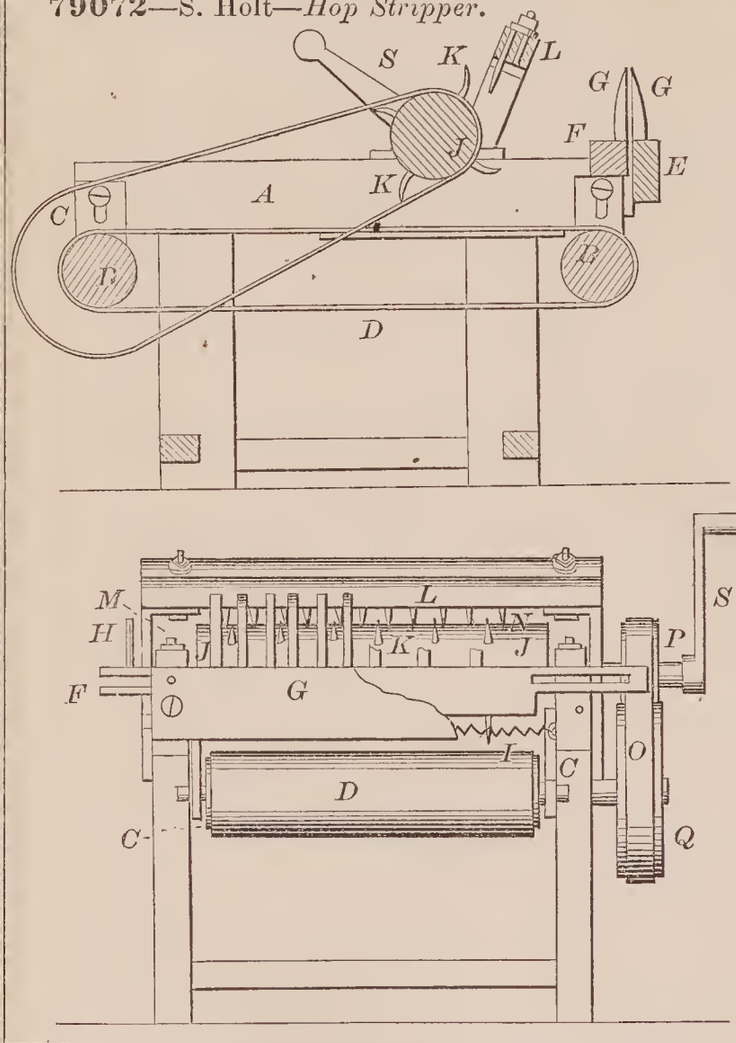
79071—D. Head—*Hoisting Apparatus.*



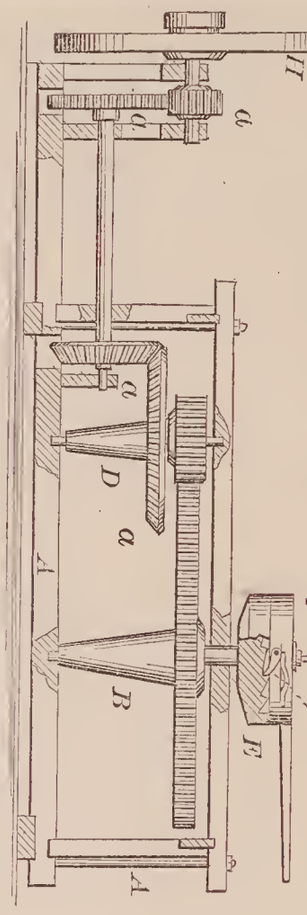
79075—Lee & Hardenbergh—*Hot Air Furnace.*



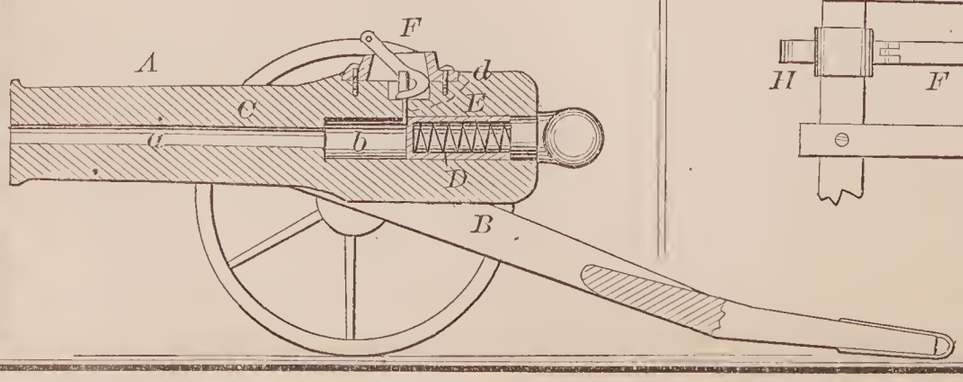
79072—S. Holt—*Hop Stripper.*



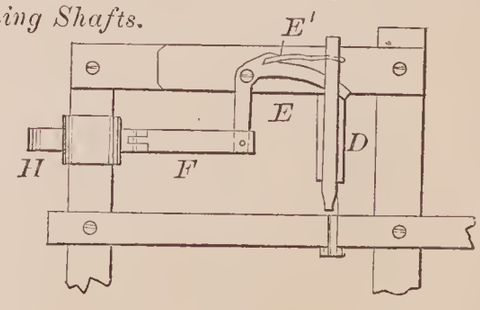
79074—J. H. Kleppinger—*Horse Power.*



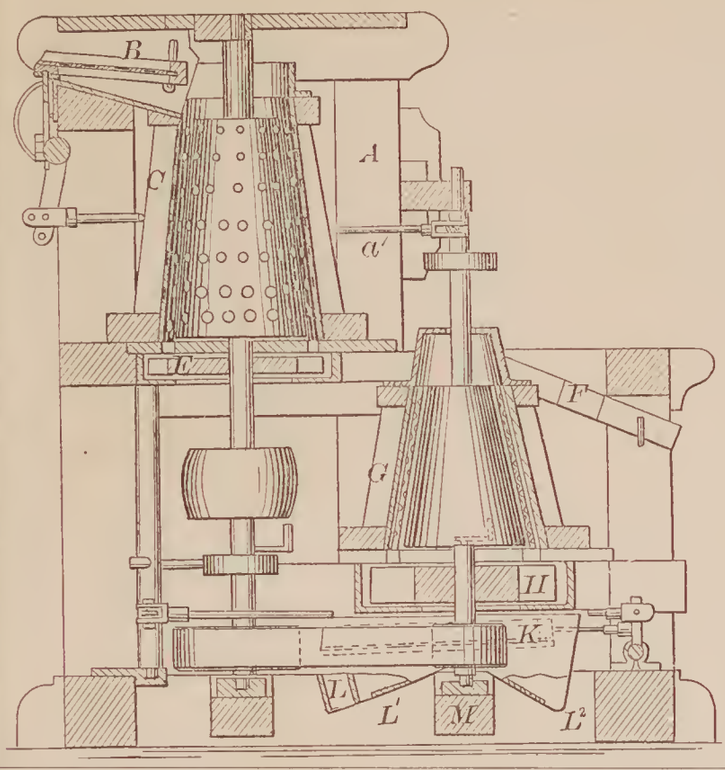
79073—G. E. Hutchinson—*Toy Cannon.*



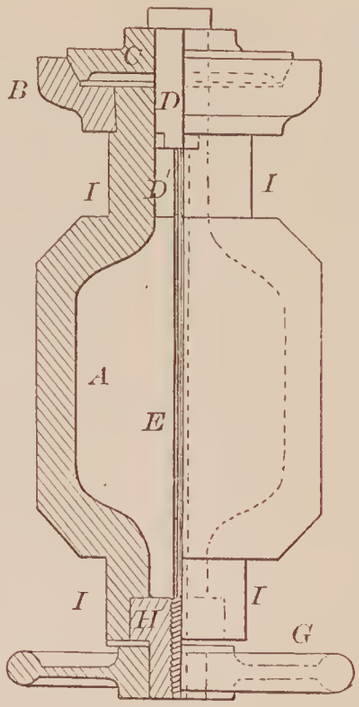
79076—E. O. Leermo—*Safety Guard for Mining Shafts.*



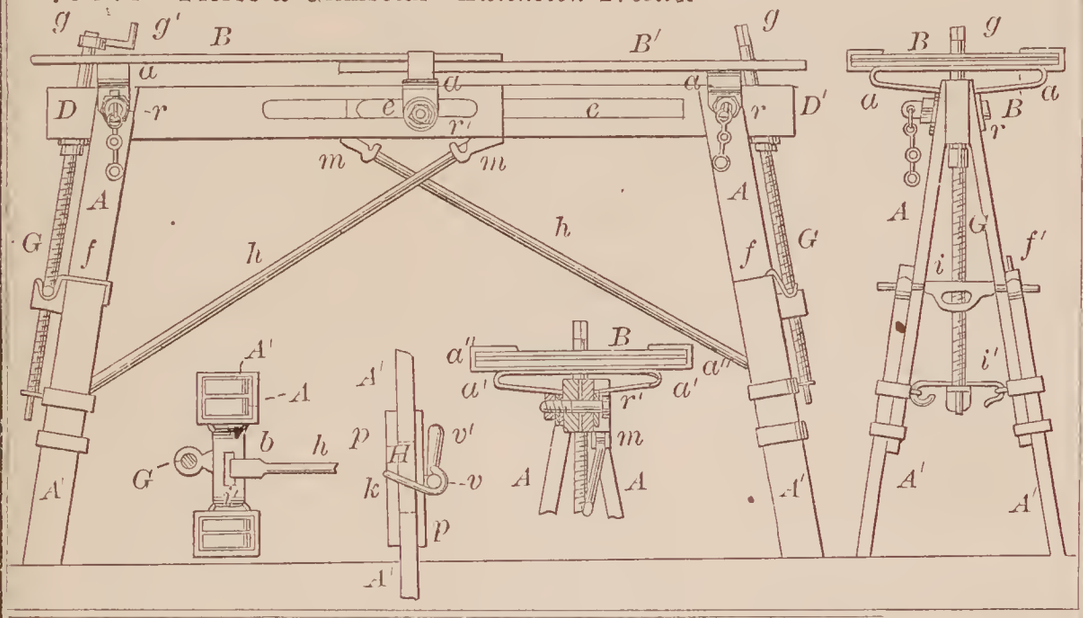
79077—C. Millar—*Smut Machine.*



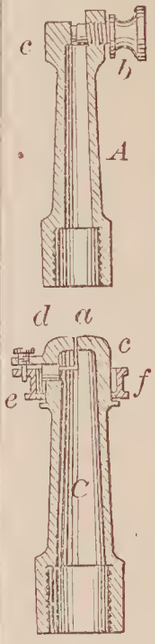
79080—W. T. Porter—*For Stopping and Starting Calendar Rolls.*



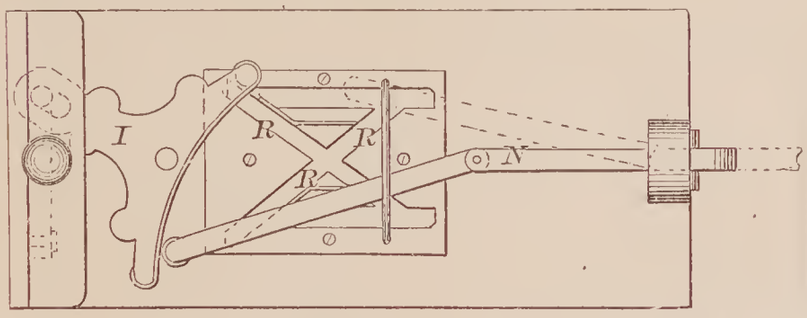
79079—Pierce & Glimsetal—*Extension Trestle.*



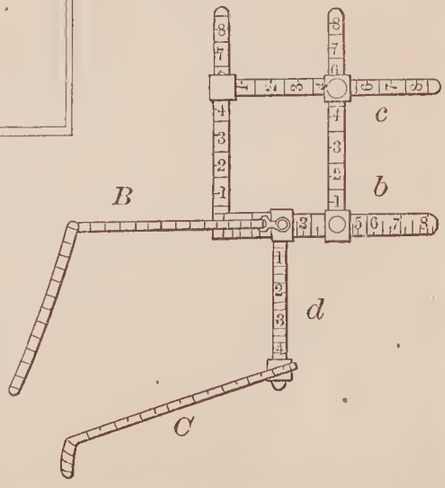
79081—A. C. Rand—*Gas Burner.*



79082—Roush & Truby—*Organ.*

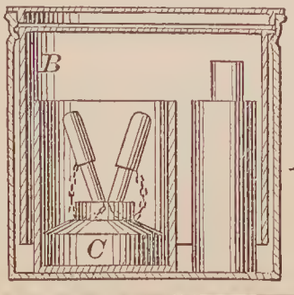


79083—Sinnott & McNaughton—*Tailors Measure.*

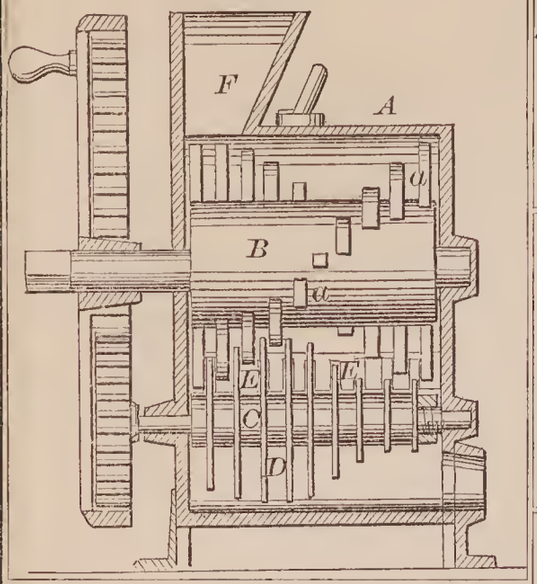


79084—J. Smallwood—*Portable Stove.*

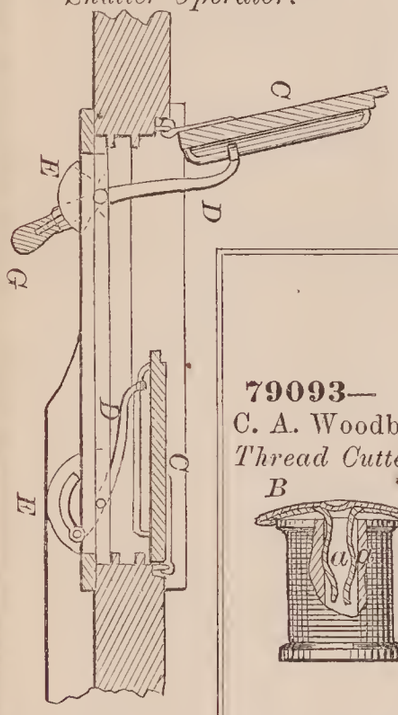
Fig. 2



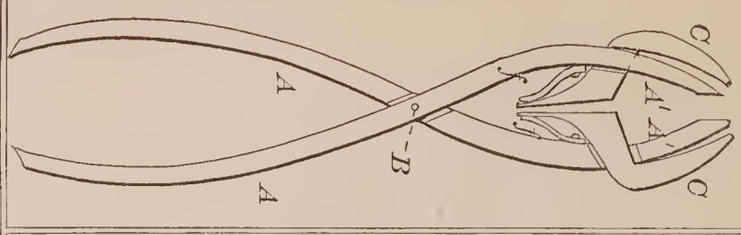
79085—Stockstill & Dille—*Meat Cutter.*



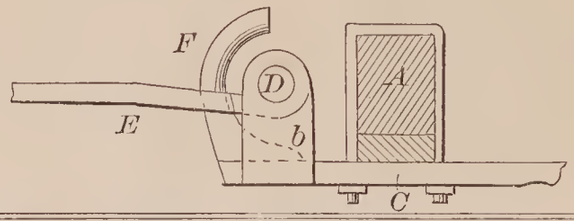
79086—M. Streeter—*Shutter Operator.*



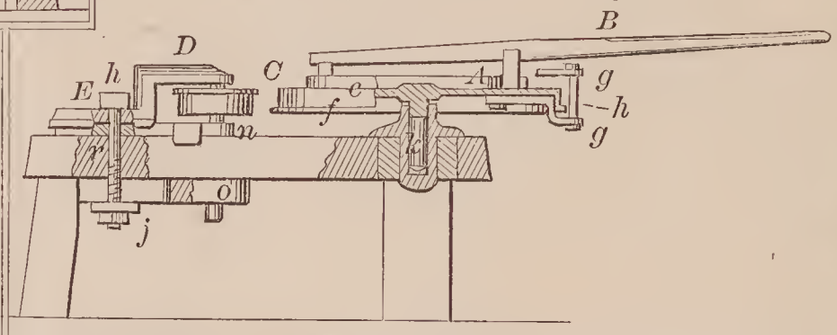
79087—P. Thompson—*Shoe Laster.*



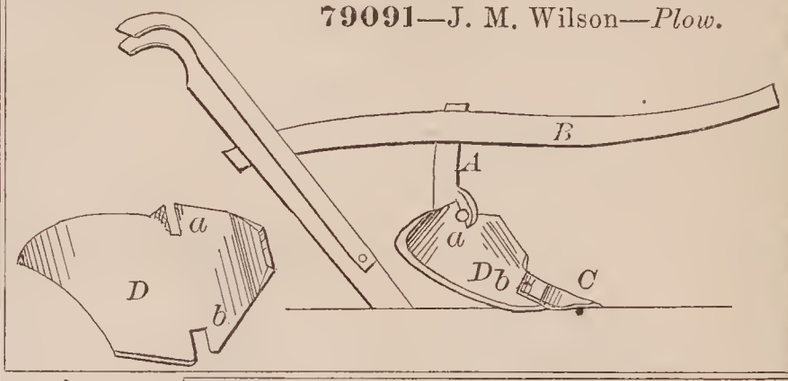
79088—J. P. Thorp—*Thill Coupling.*



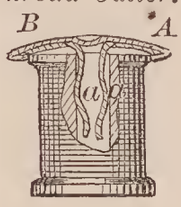
79089—R. Tyrrell—*Tire Bending Machine.*



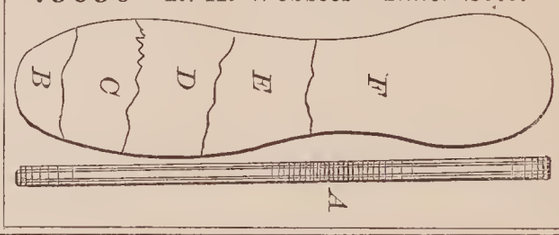
79091—J. M. Wilson—*Plow.*



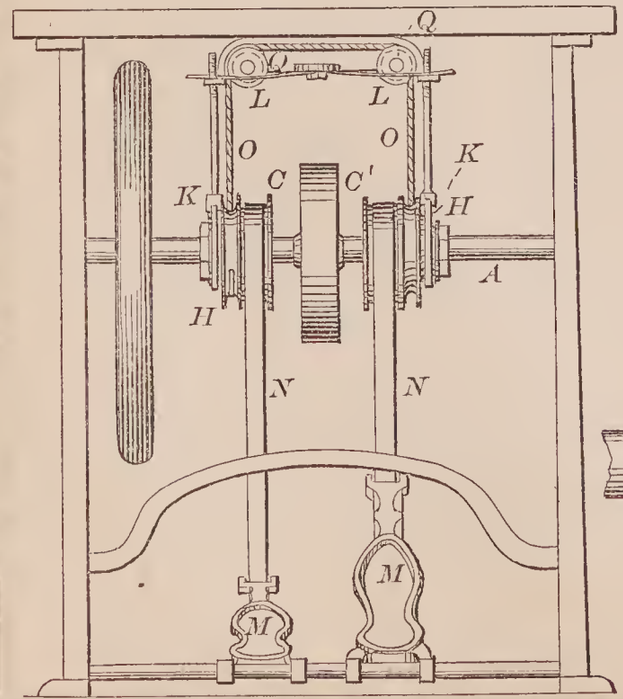
79093—C. A. Woodbury—*Thread Cutter.*

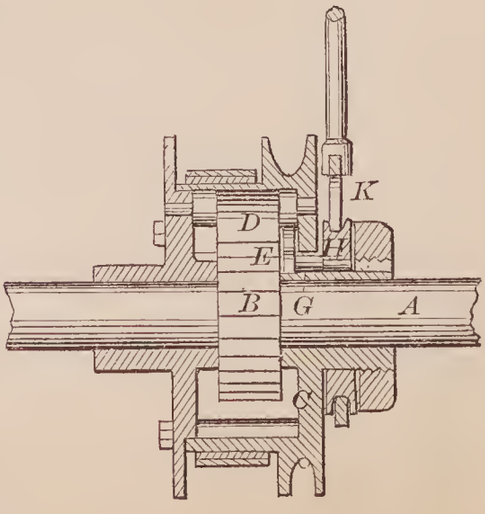


79090—R. A. Webster—*Inner Sole.*

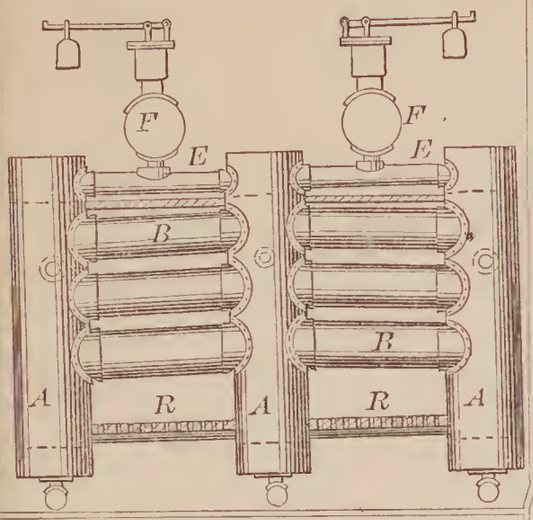


79092—K. J. Winslow—*For Converting Motion.*

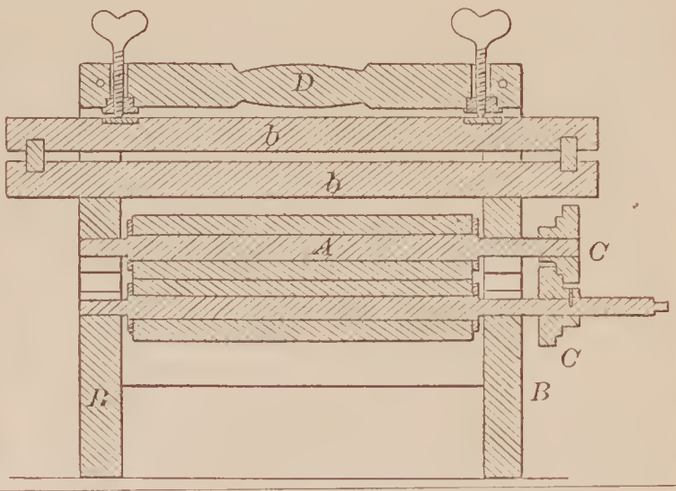




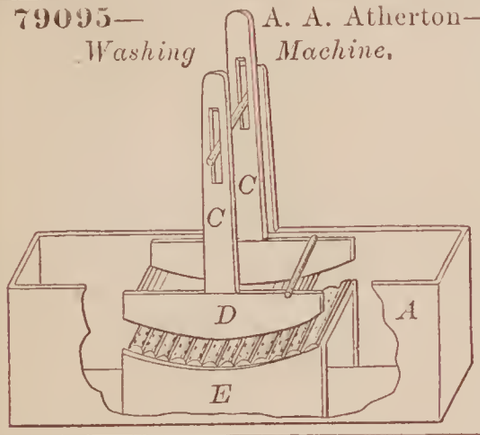
79094—J. Armstrong—*Steam Generator.*



79096—A. M. Bailey—*Wringer.*

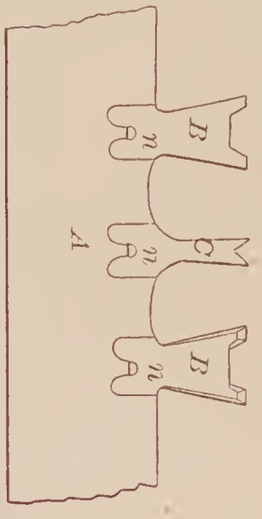


79095—A. A. Atherton—*Washing Machine.*

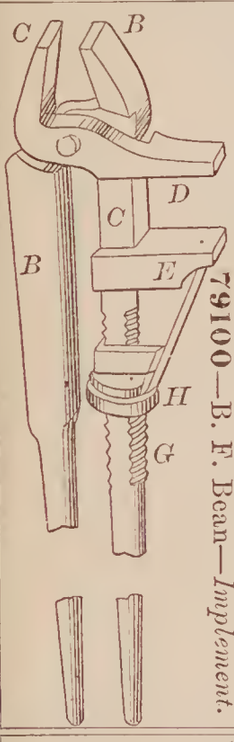


79097—F. Baker—*Cultivating Hops.*

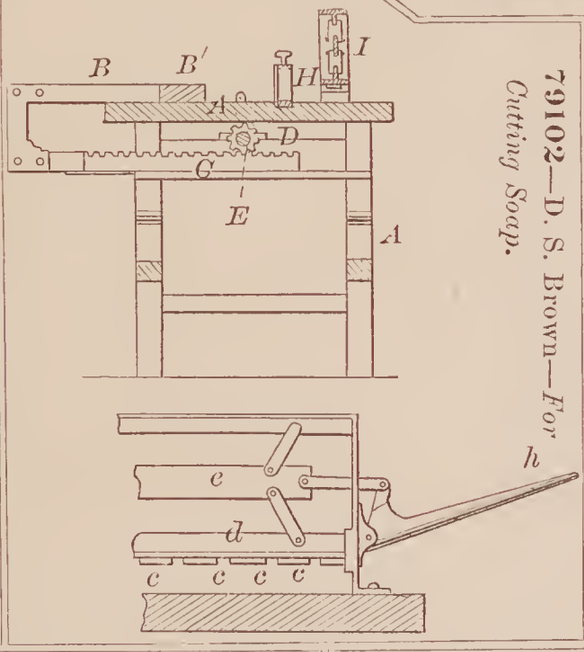
79099—S. Barry—*Saw.*



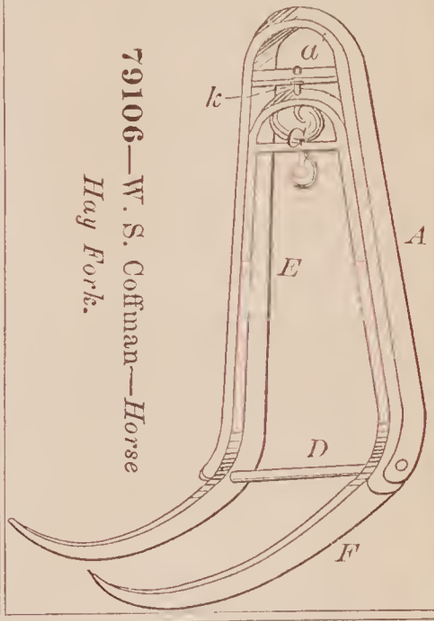
79100—B. F. Bean—*Implement.*



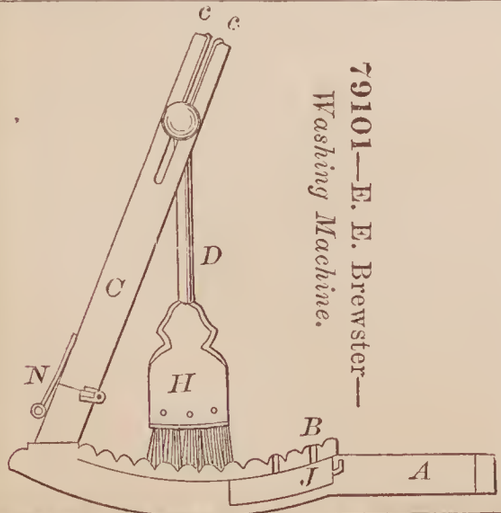
79102—D. S. Brown—*For Cutting Soap.*



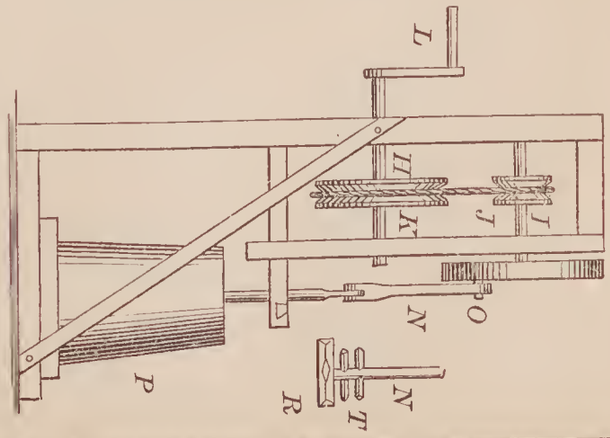
79106—W. S. Coffman—*Horse Hay Fork.*



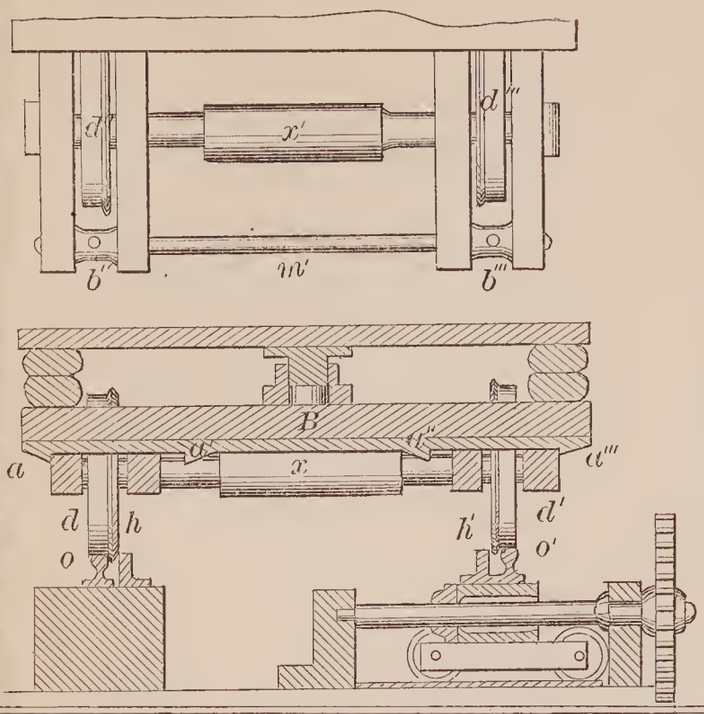
79101—E. E. Brewster—*Washing Machine.*



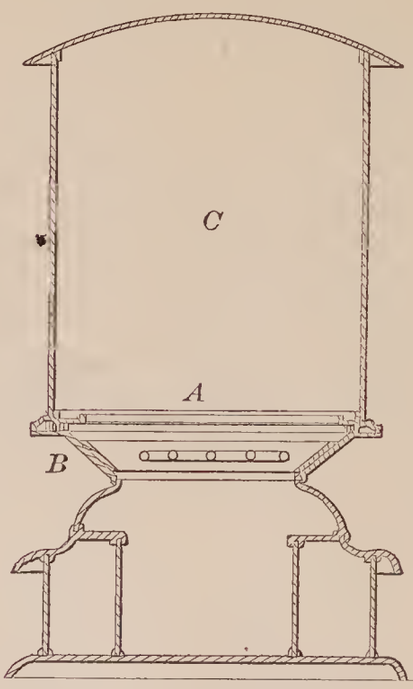
79103—M. Calvert—*Churn.*



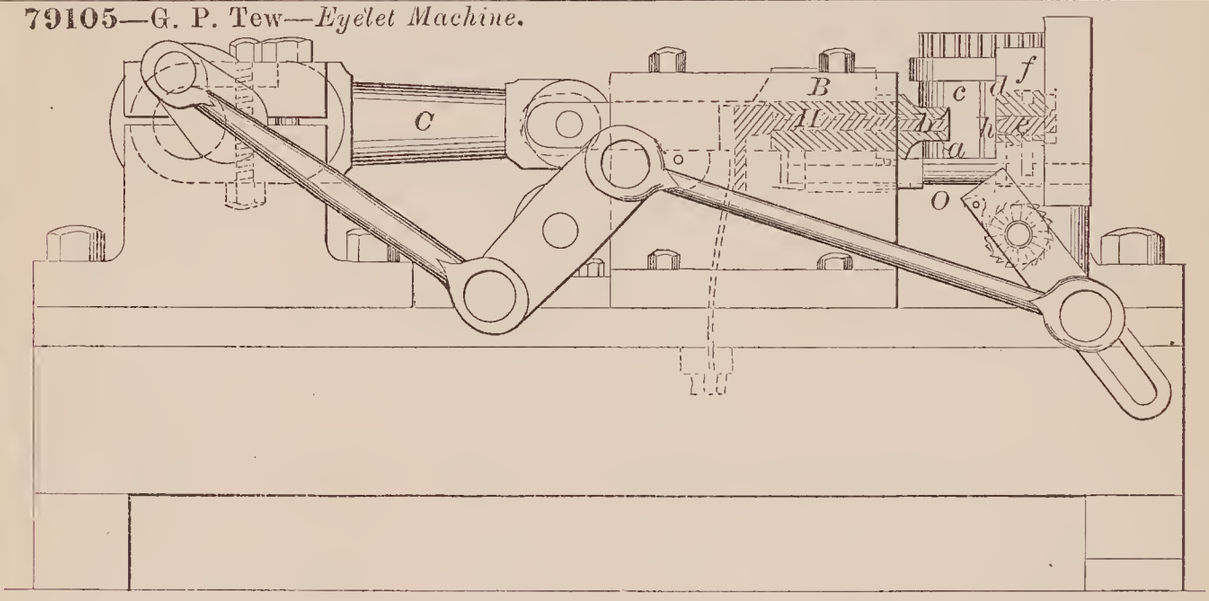
79104—H. T. Carter—*Car Truck*

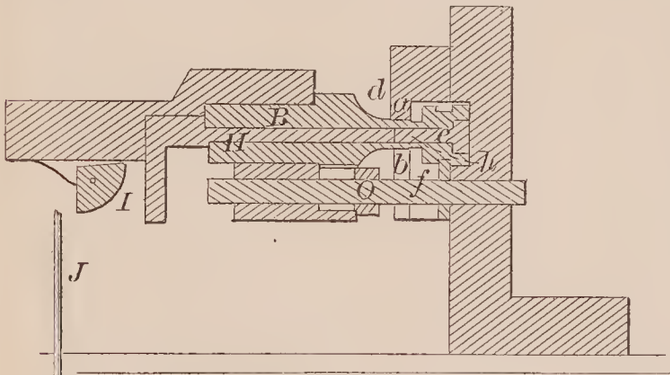


79108—D. B. Cox—*Ring for Stoves.*

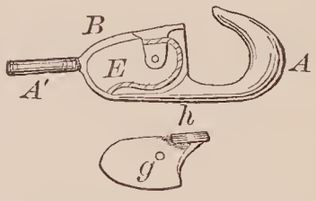


79105—G. P. Tew—*Eyelet Machine.*

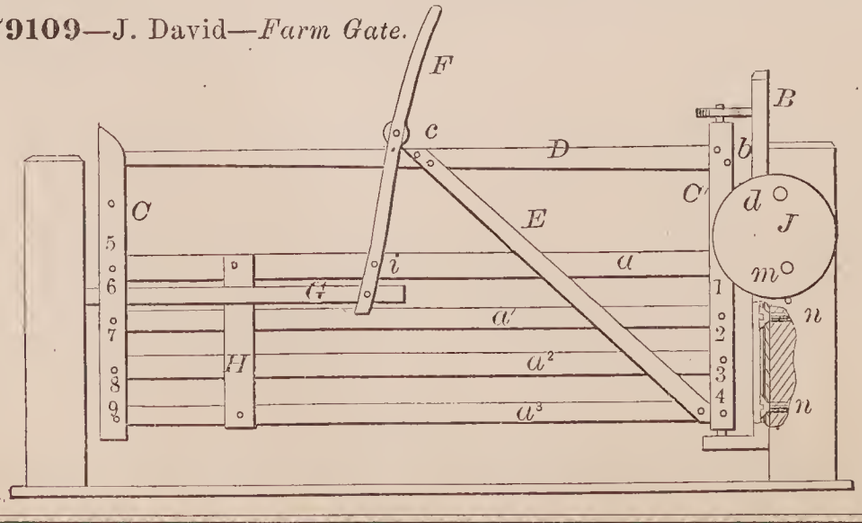




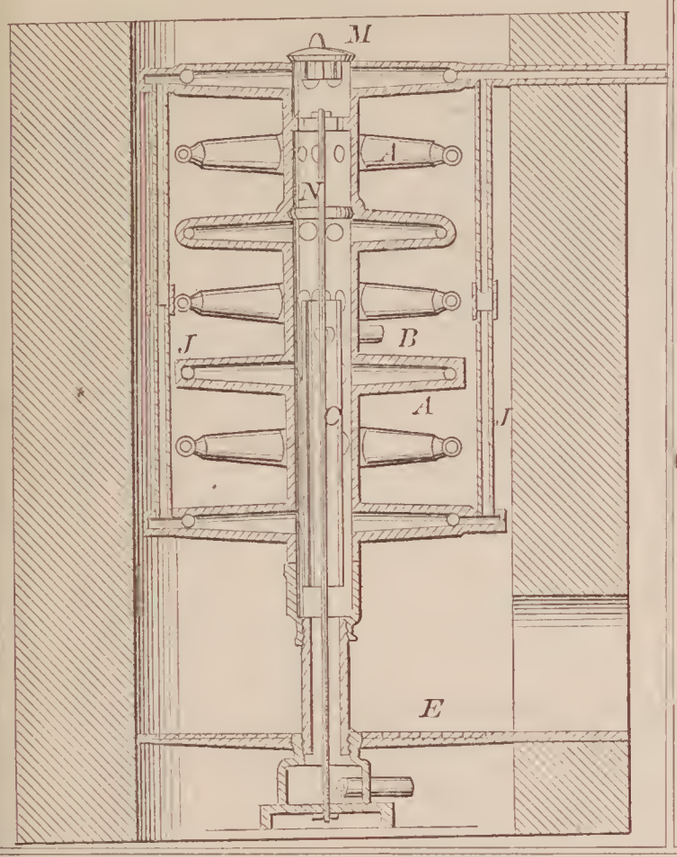
79107—E. A. Cooper—
Harness Snap.

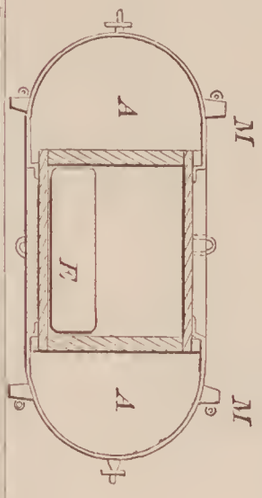


79109—J. David—*Farm Gate.*

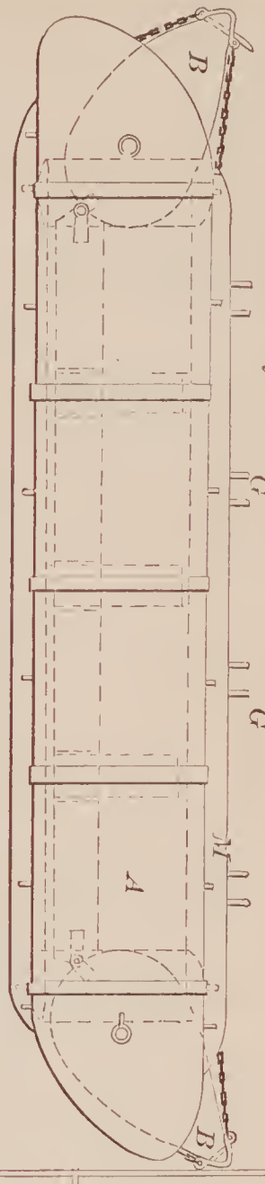


79110—G. B. Field—*Steam Generator.*

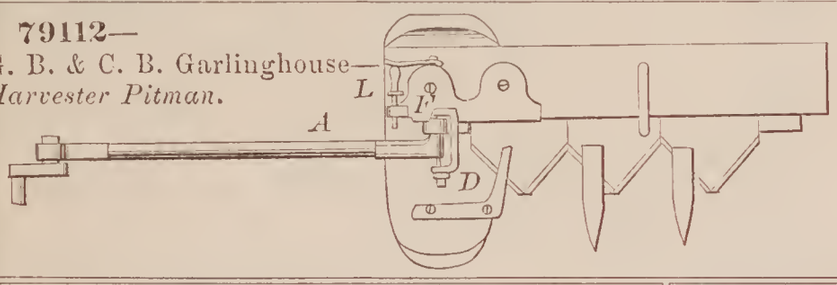




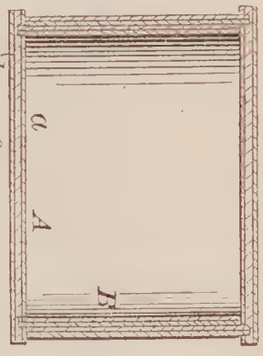
79111—L. F. Frazee—*Life Boat.*



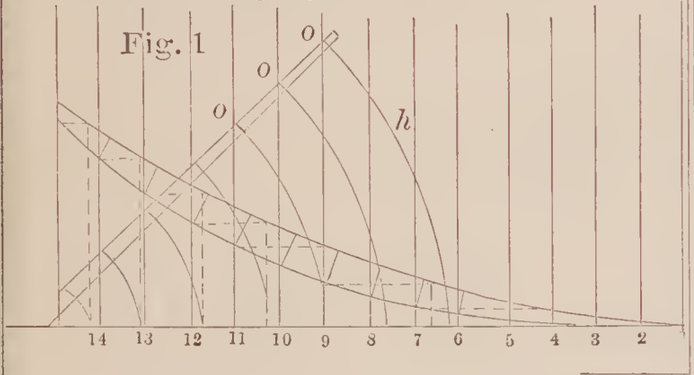
79112—
G. B. & C. B. Garlinghouse—
Harvester Pitman.



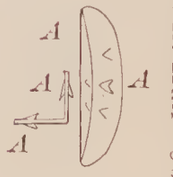
79113—W. B. Guernsey—*Box.*

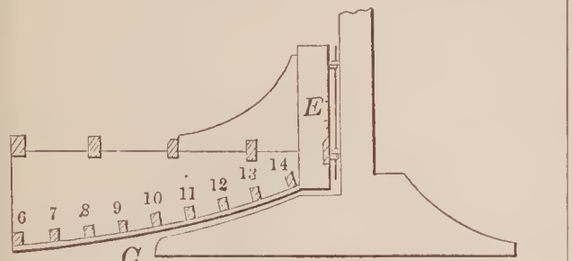


79114—W. Hagerty—*Steamboat Hull.*

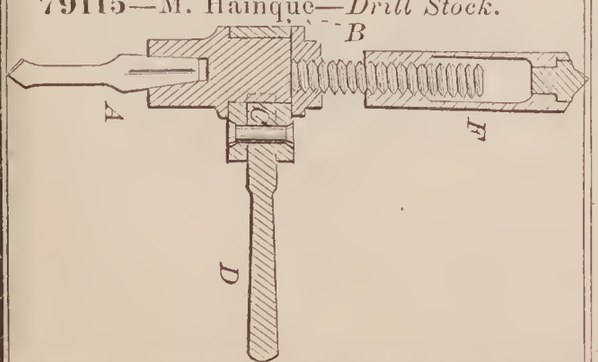


79116—D. E. Hall—*Joint Clamp.*

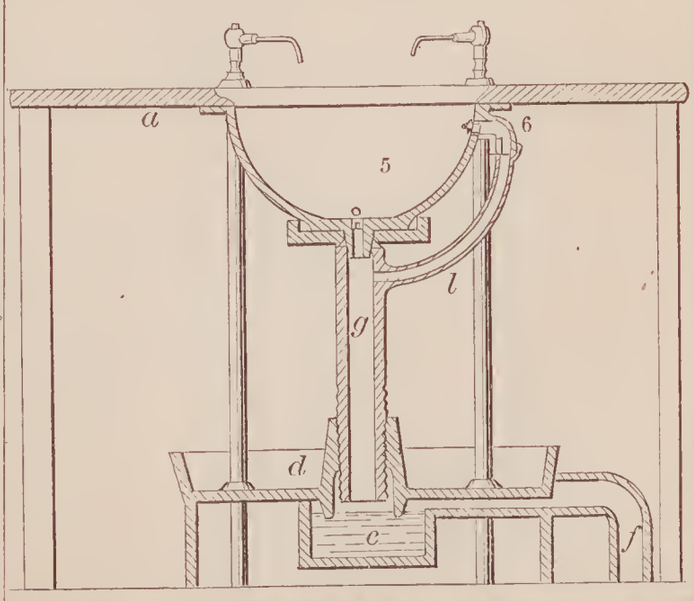




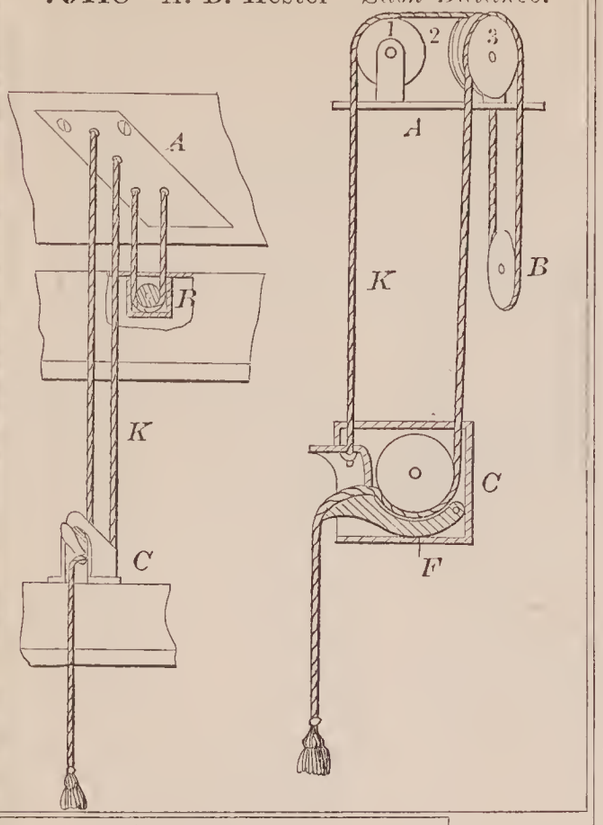
79115—M. Hainque—*Drill Stock.*



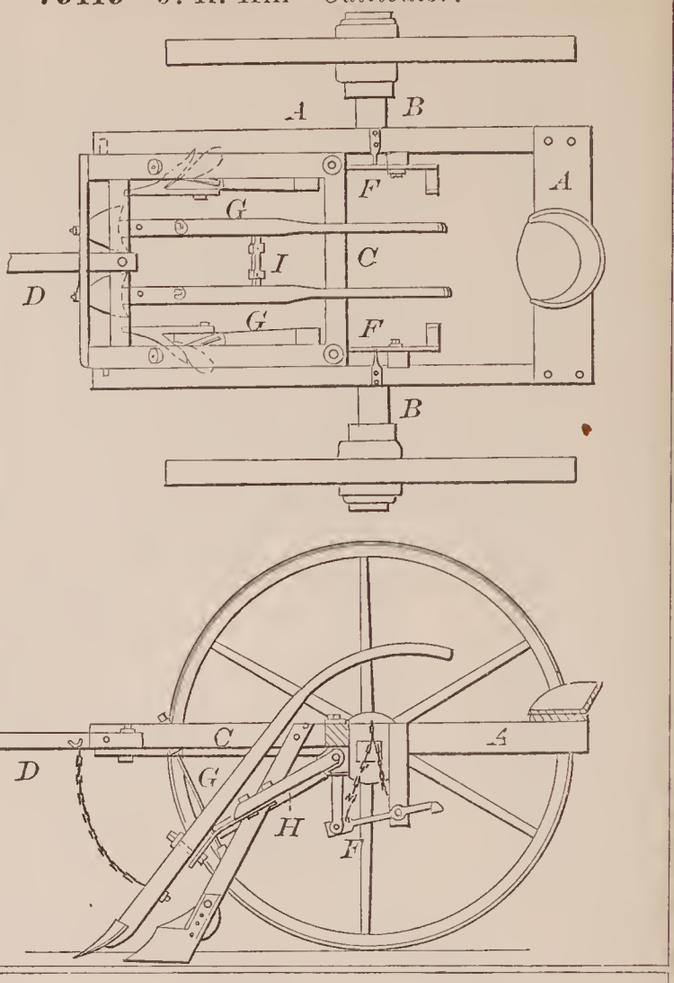
79117—B. Havanagh—*Wash Basin Pipe.*



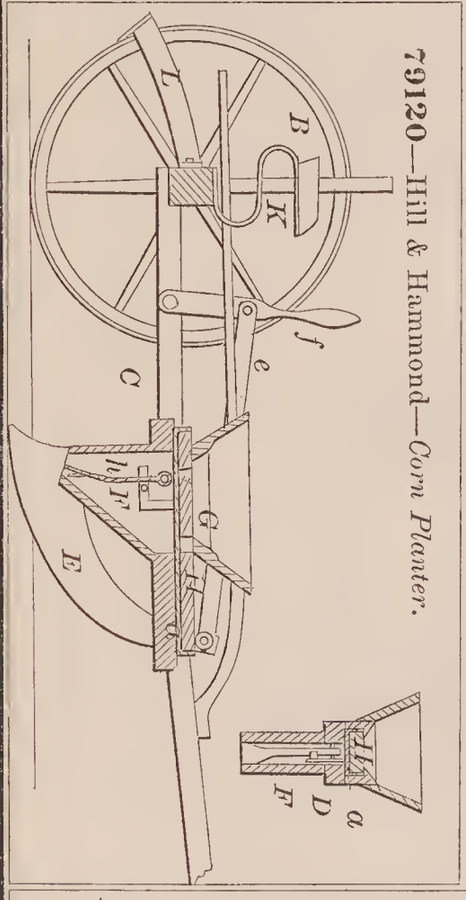
79118—A. B. Hester—*Sash Balance.*



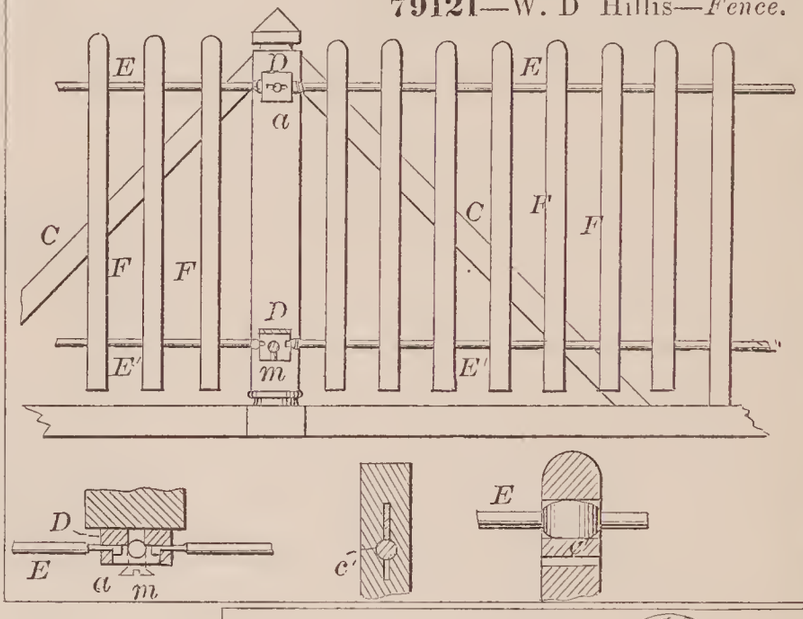
79119—J. H. Hill—*Cultivator.*



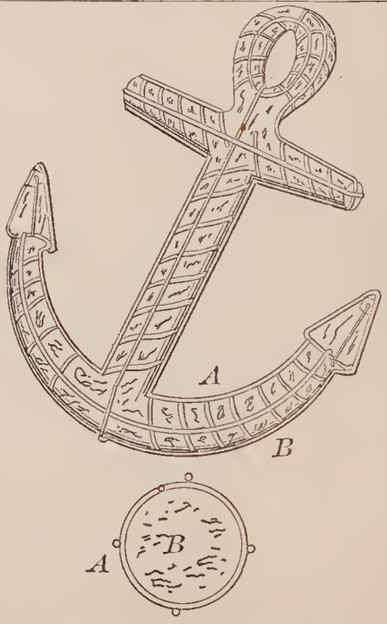
79120—Hill & Hammond—*Corn Planter.*



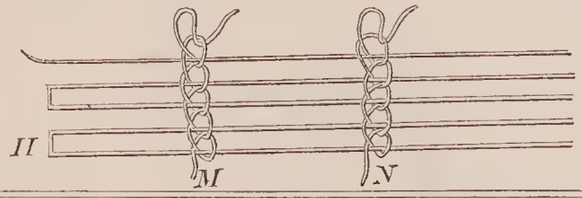
79121—W. D Hillis—*Fence.*



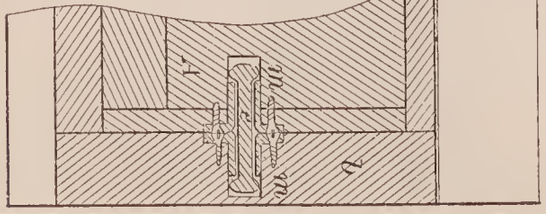
79122—C. Hoehbrunn—*Flower Frame.*



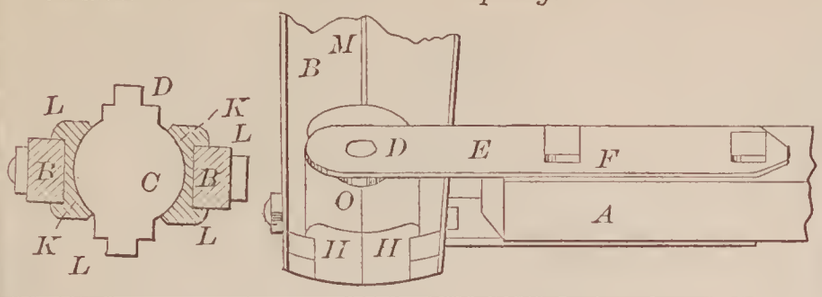
79123—A. Holbrook, Jr.—*Book Binding.*



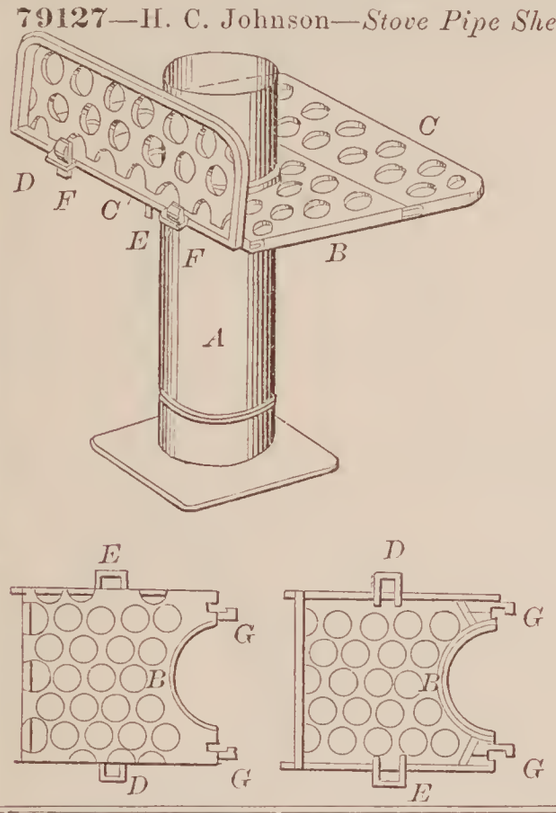
79125—S. W. Huntington—*Door Spring.*



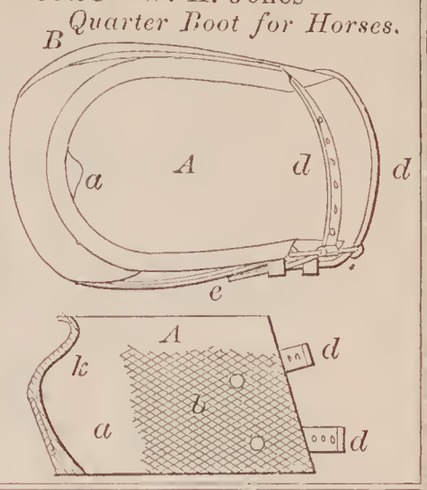
79124—J. F. Hollister—*Door Spring.*



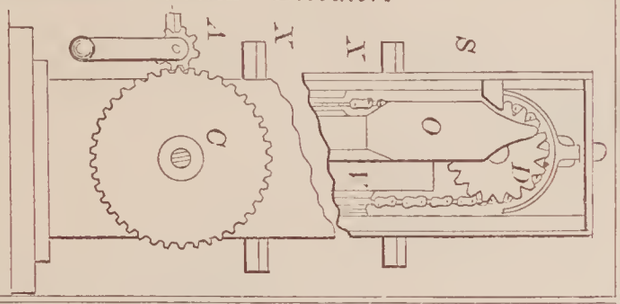
79127—H. C. Johnson—*Stove Pipe Shelf.*



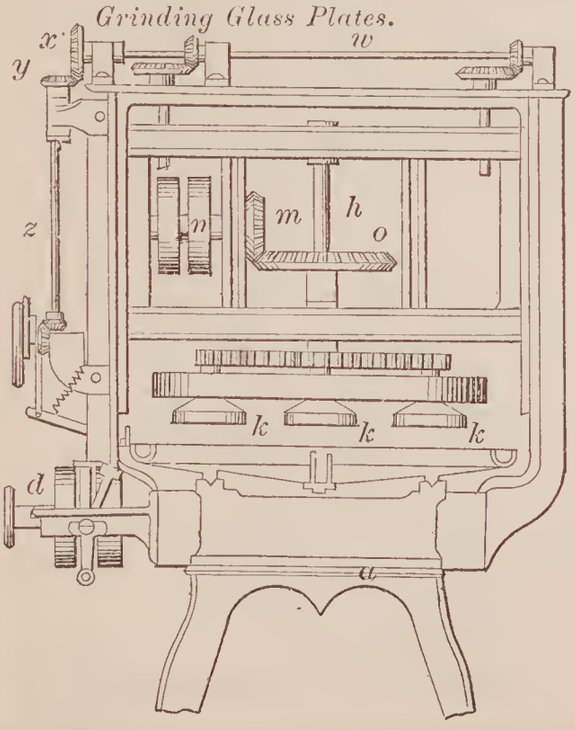
79128—W. H. Jones—*Quarter Boot for Horses.*



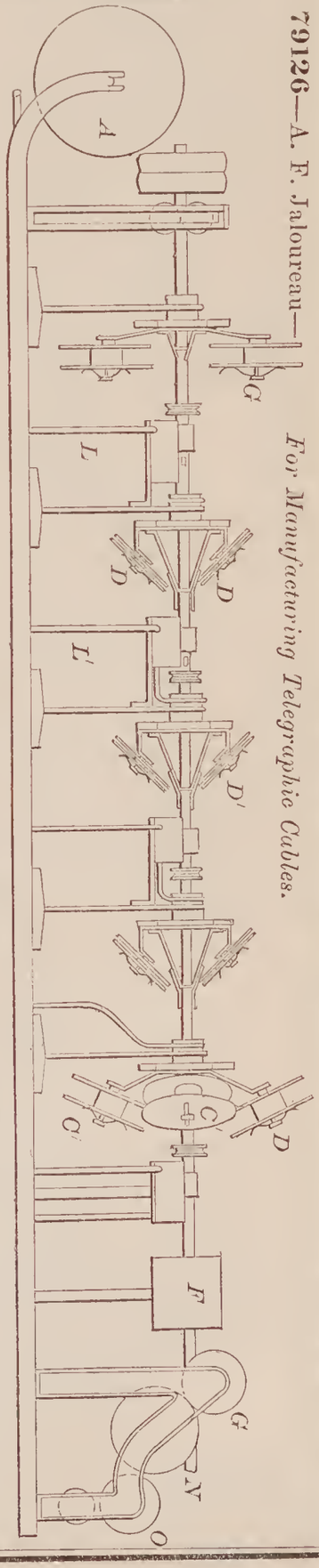
79129—G. Joslin—*Elevator.*



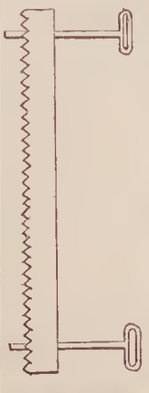
79131—Kendall & Hathaway—*For Grinding Glass Plates.*



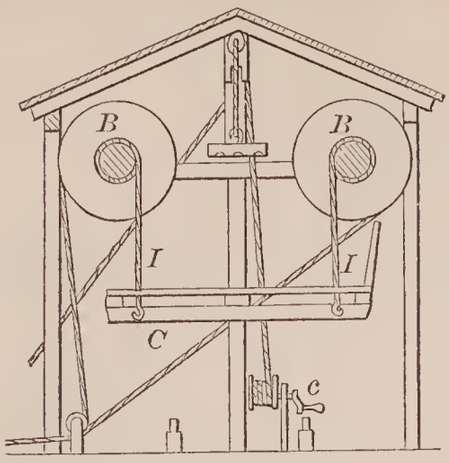
79126—A. F. Jaloureau—*For Manufacturing Telegraphic Cables.*

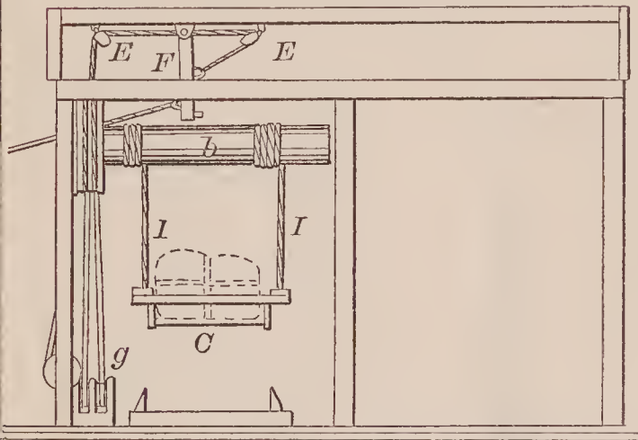


79133—A. Kirkpatrick—*For Shielding Plants from Hoes.*

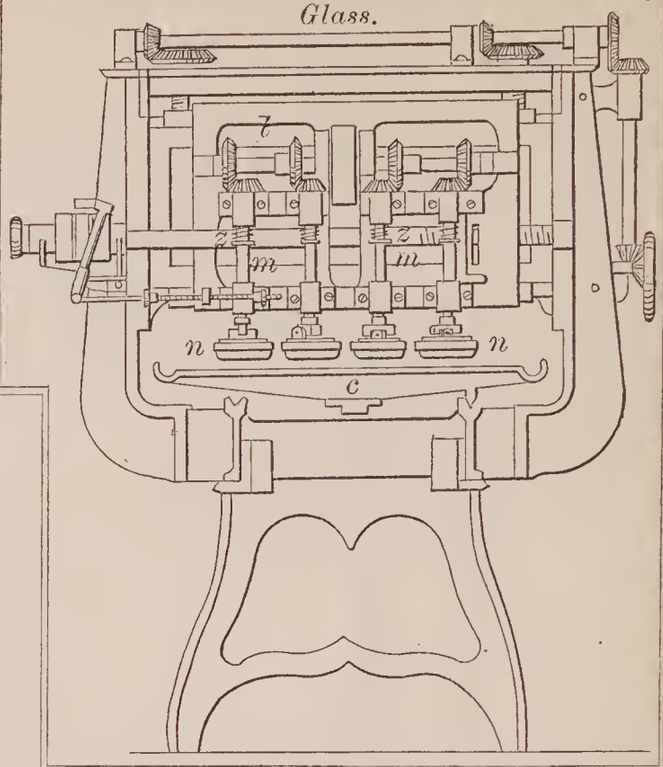


79130—H. Keck—*Hay Elevator.*

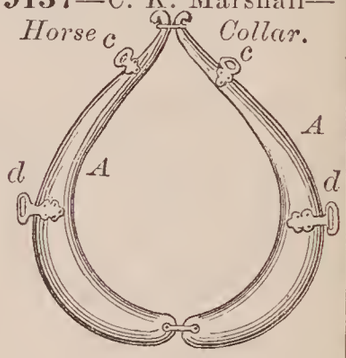




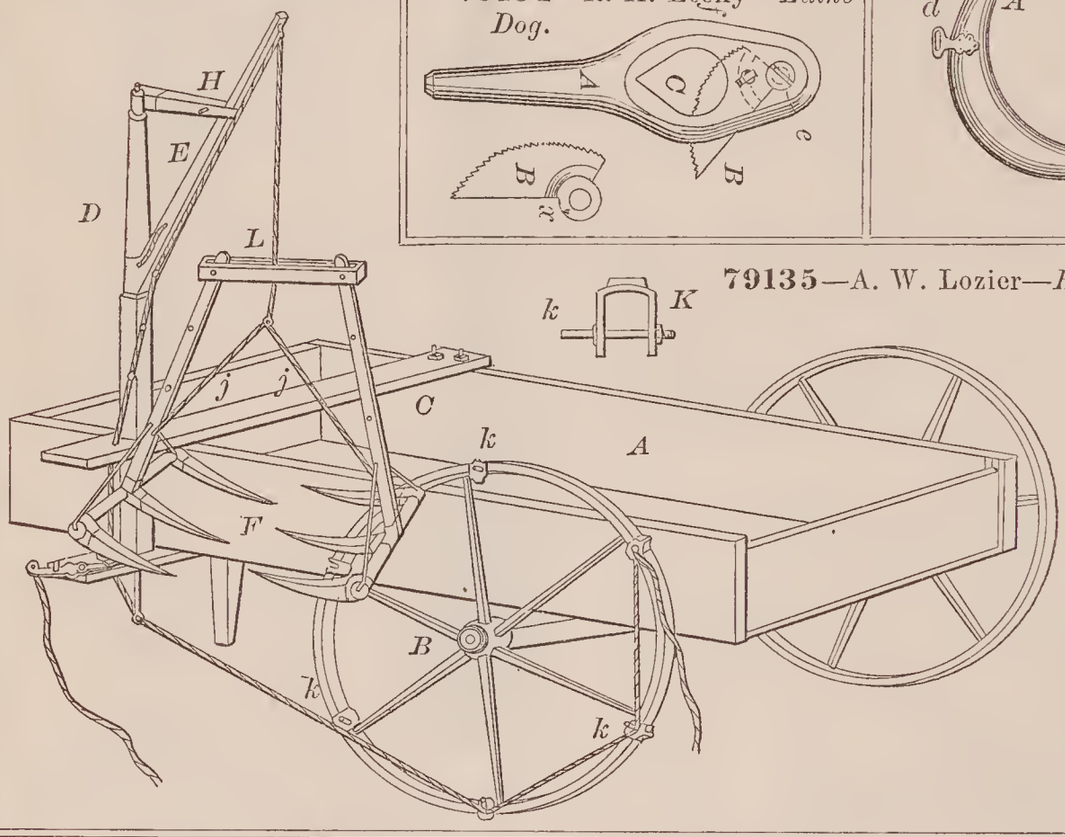
79132—Kendall & Hathaway—*For Polishing Glass.*



79137—C. K. Marshall—*Horse Collar.*

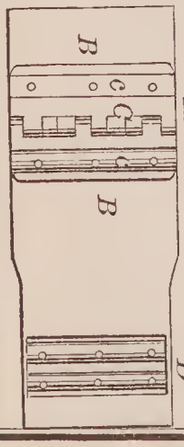


79134—R. H. Lecky—*Lathe Dog.*

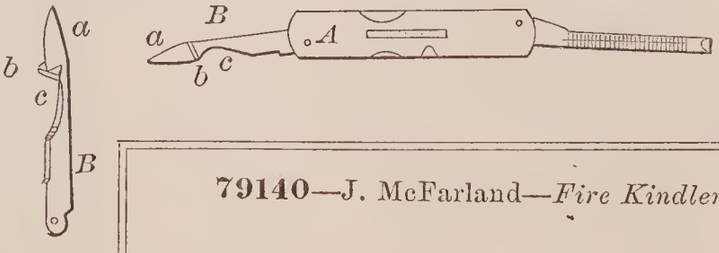


79135—A. W. Lozier—*Hay Loader.*

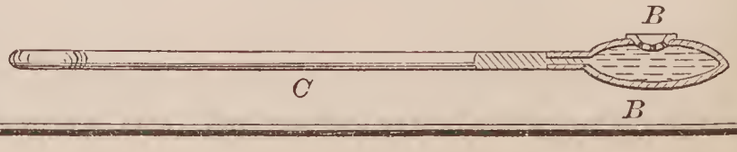
79136—Lyder & Shreve—*Slicing Belting.*



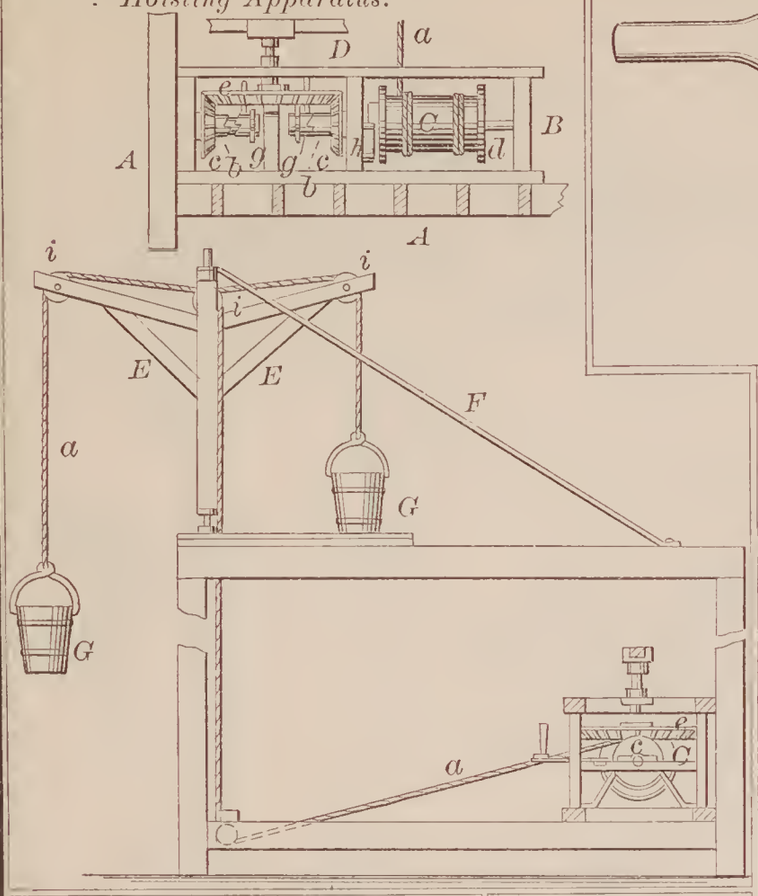
79139—J. E. McBeth—*Pocket Knife.*



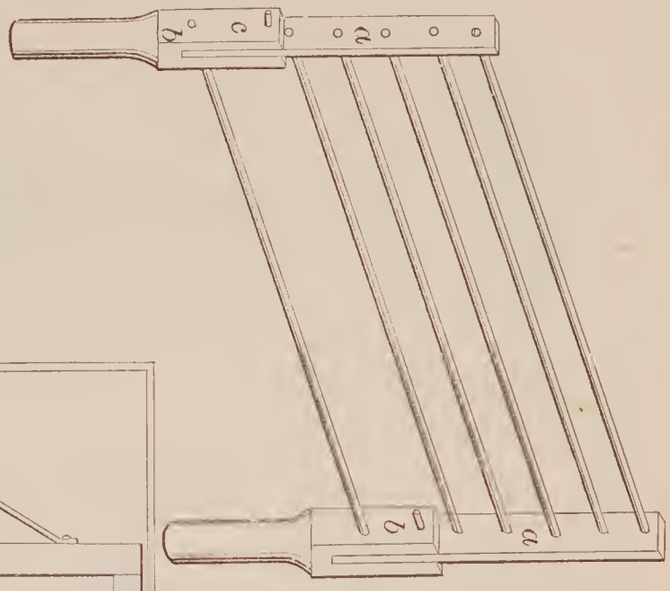
79140—J. McFarland—*Fire Kindler.*



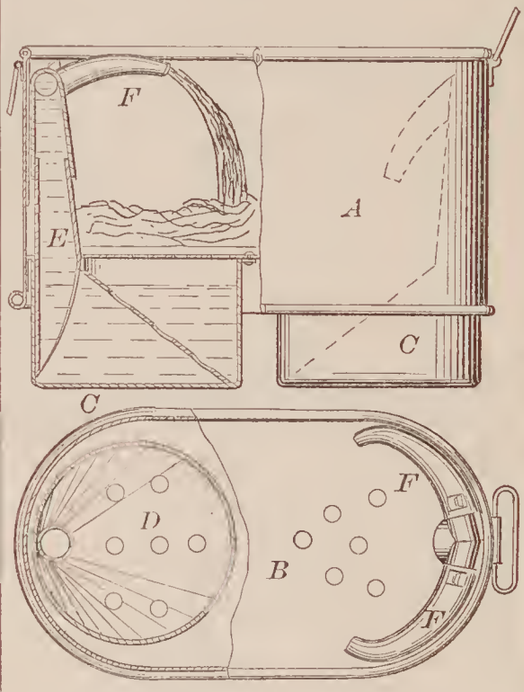
79138—Marshall & Schroeder—*Hoisting Apparatus.*



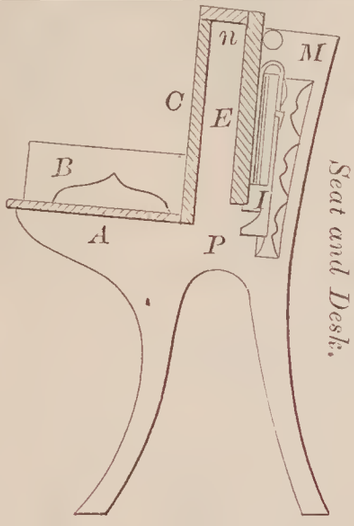
79141—W. McFarlin—*Fence.*



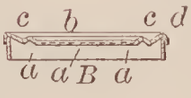
79142—C. E. Miller—*Wash Boiler.*



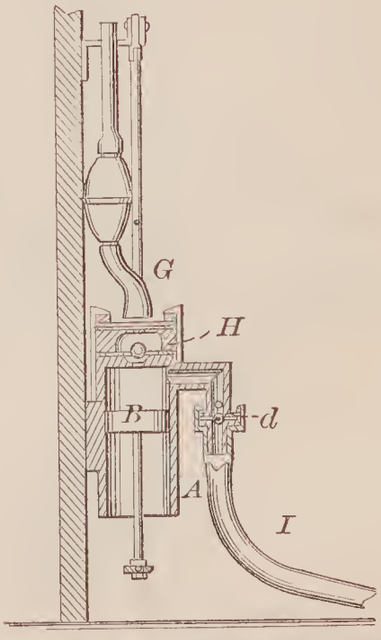
79145—A. E. Roberts—*School Seat and Desk.*



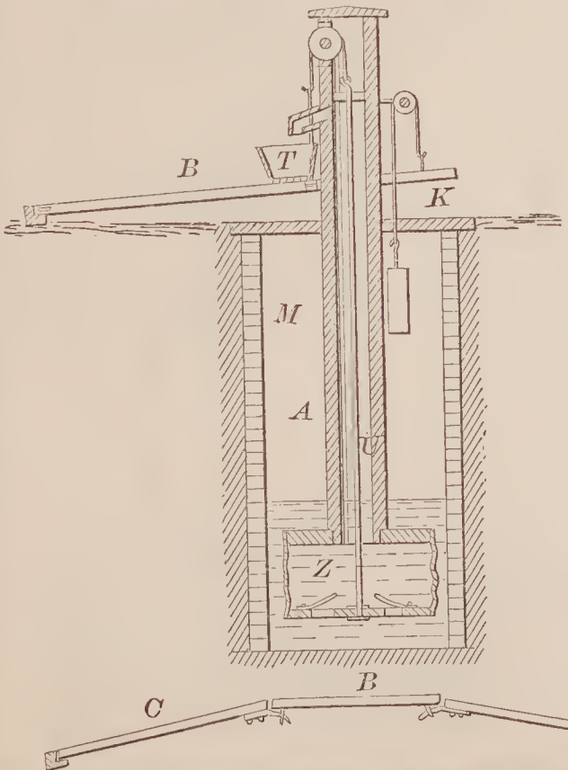
79144—C. T. Palmer—*Spice Can.*



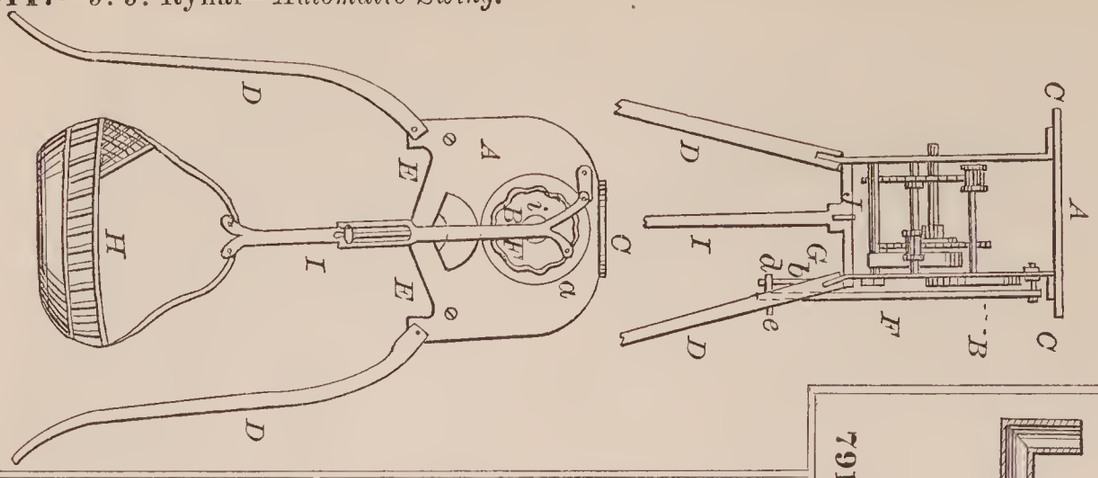
79143—G. F. Nutting—*Pump.*



79146—A. H. Russell—*Stock Pump.*

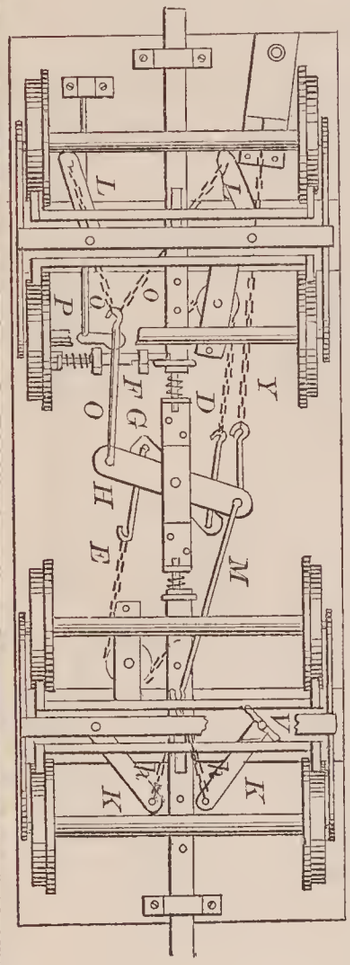


79147—J. J. Rynal—*Automatic Swing.*

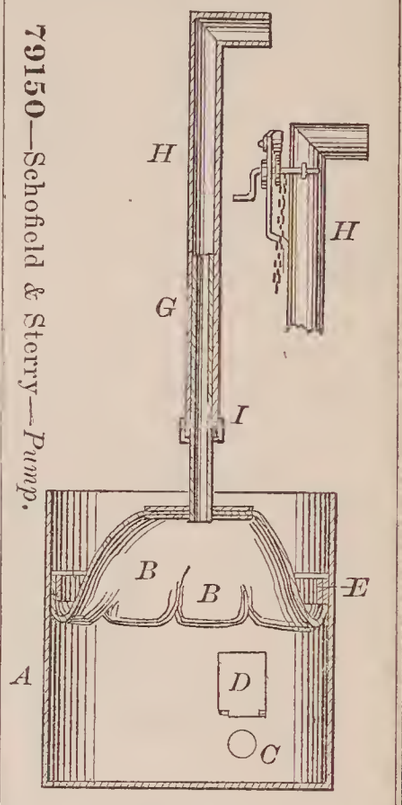


79148—L. E. Sallee—*Leather Work Ornament.*

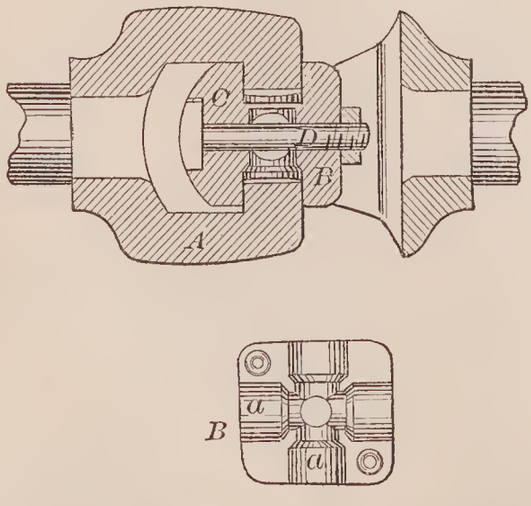
79149—A. H. Sassaman—*Car Brake*



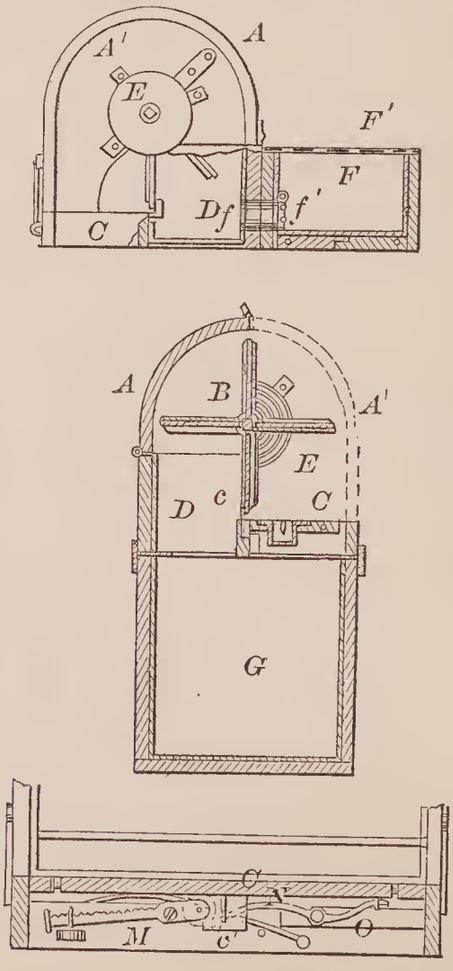
79150—Schofield & Sterry—*Pump.*



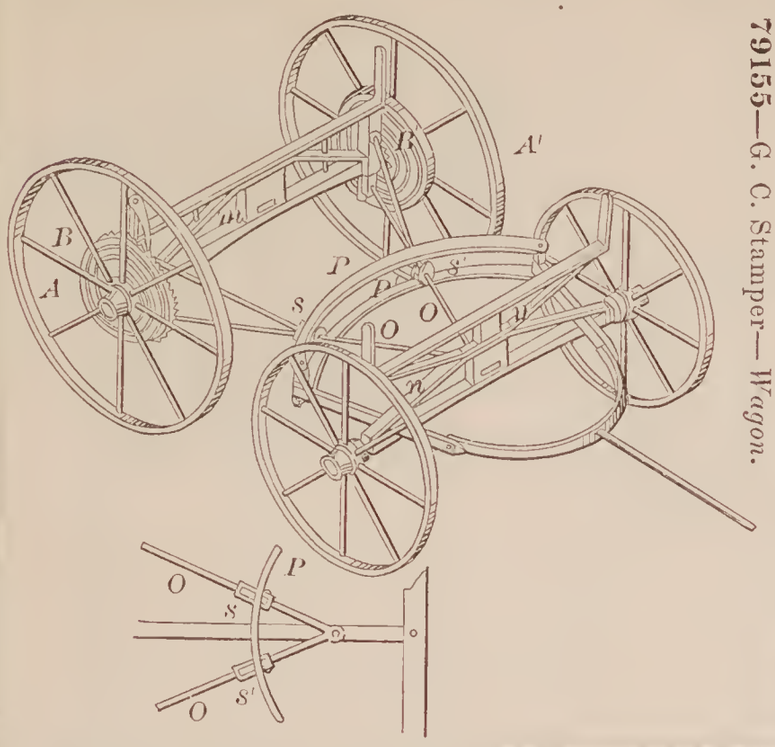
79153—W. Smead—*Joint Coupling.*



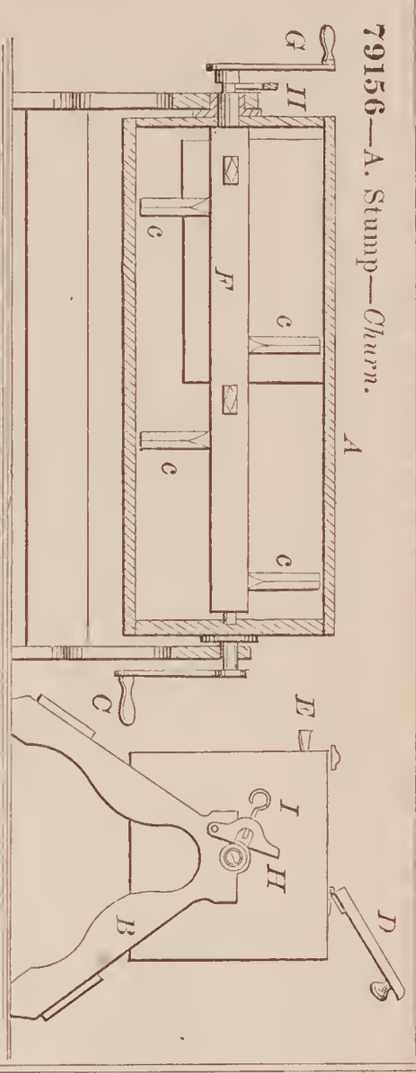
79154—G. C. Stamper—*Animal Trap.*



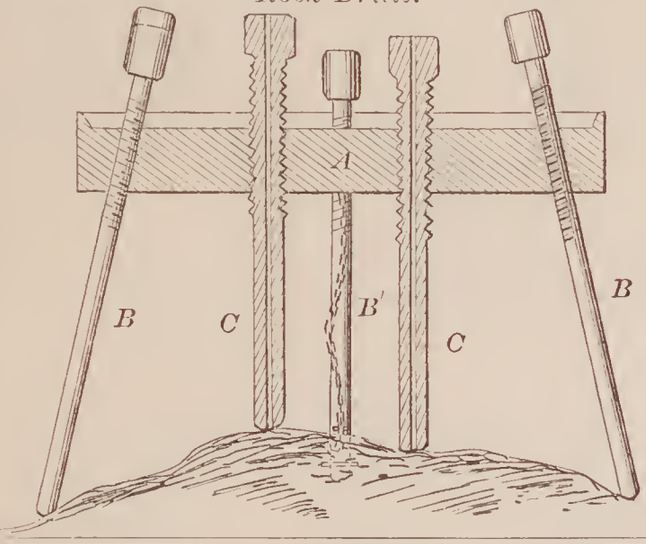
79155—G. C. Stamper—*Wagon.*



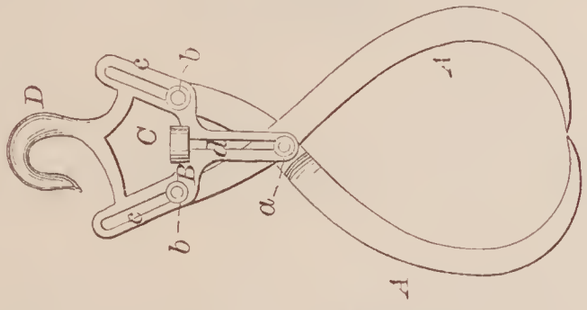
79156—A. Stump—*Churn.*



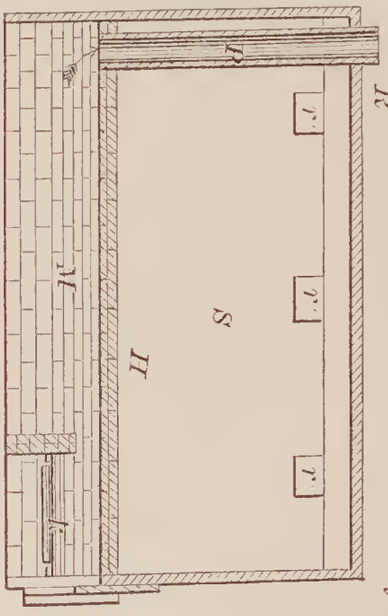
79158—Sweeney & Bradburn—*Platform for Rock Drills.*



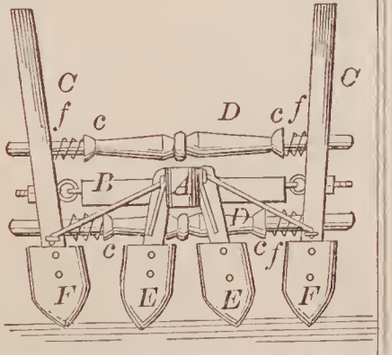
79159—J. B. Sweetland—*Hook.*



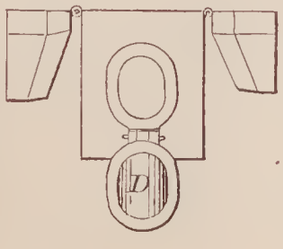
79160—D. A. Ter Hooven—*Manufacture of Fertilizers.*

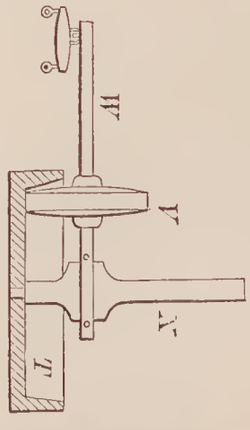


79161—E. Terril—*Cultivator.*

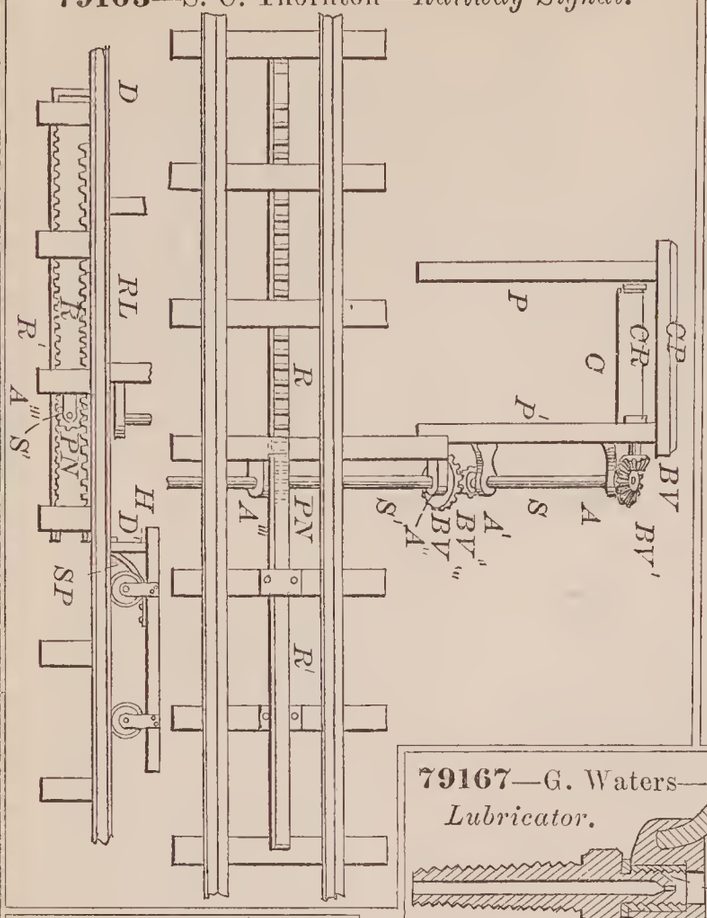


79162—L. Thomas—*Bottle Mould.*

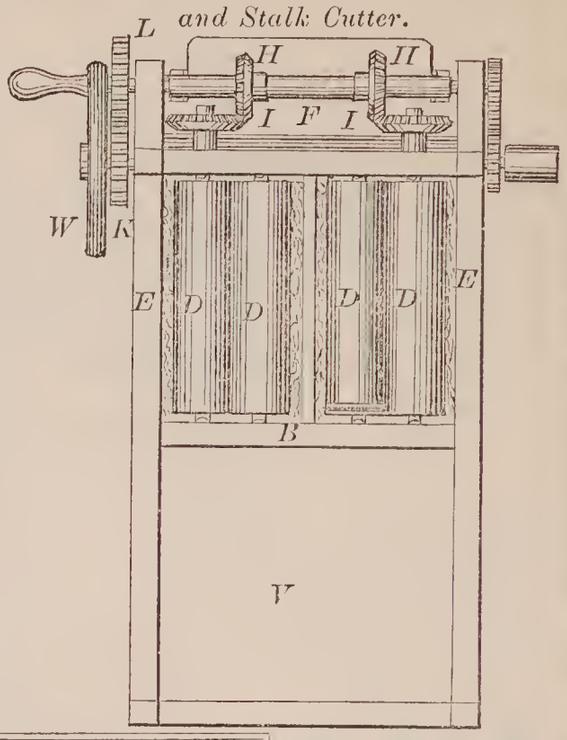




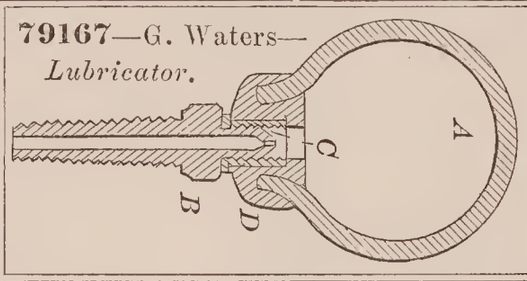
79163—S. C. Thornton—*Railway Signal.*

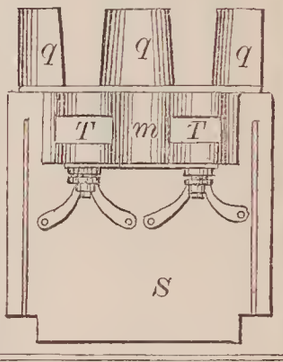


79166—Warriner & Baker—*Corn Husker and Stalk Cutter.*

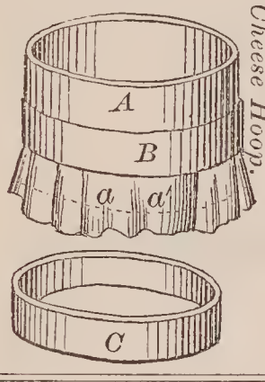


79167—G. Waters—*Lubricator.*

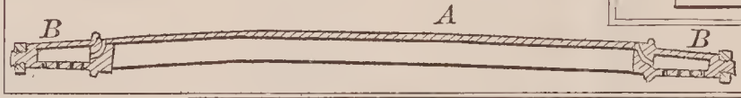




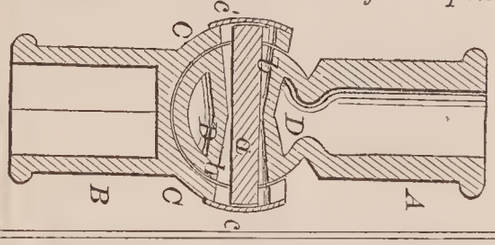
79164—H. M. Viets—*Cheese Hoop.*

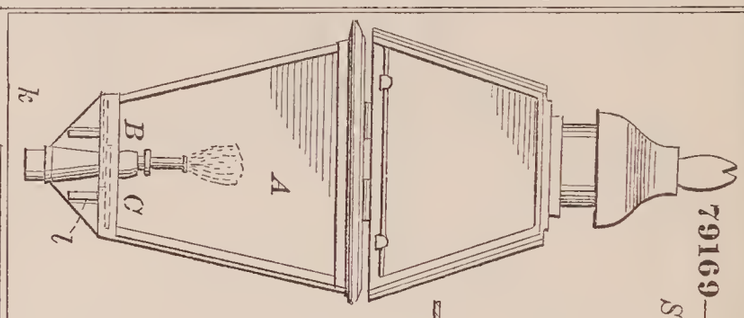


79165—S. D. Wackman—*Vehicle Axle.*

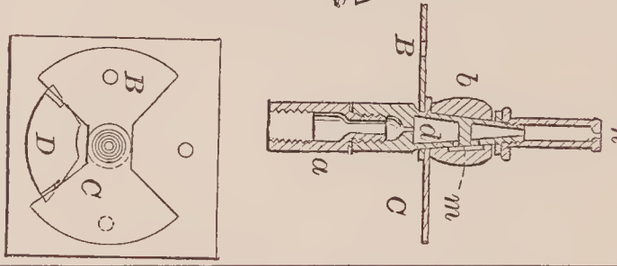


79166—S. Wheeler—*Shaft Coupling.*

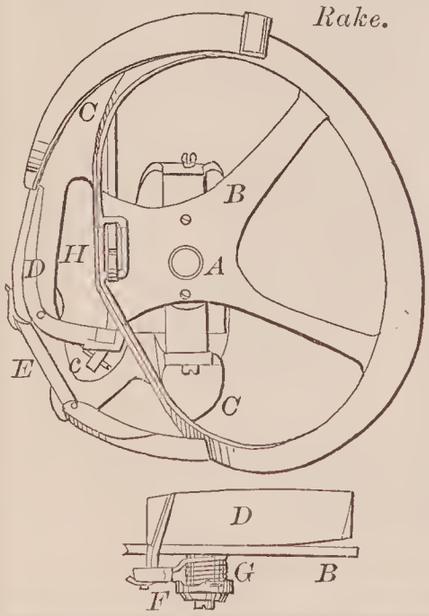




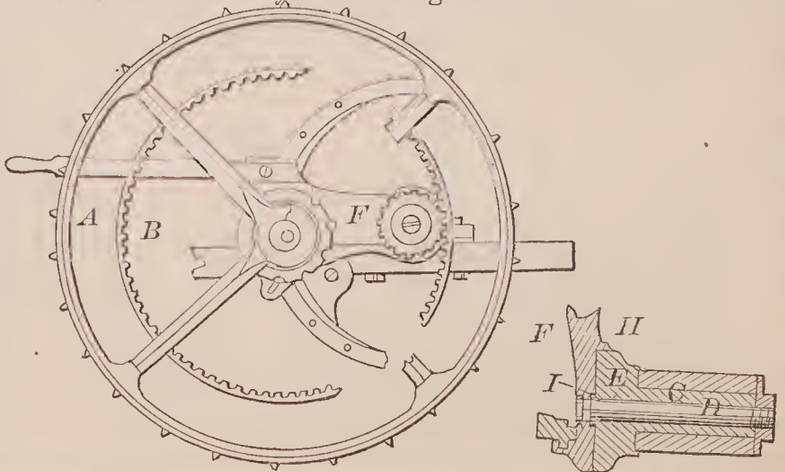
79169—W. O. Wheeler—*Street Lamp.*



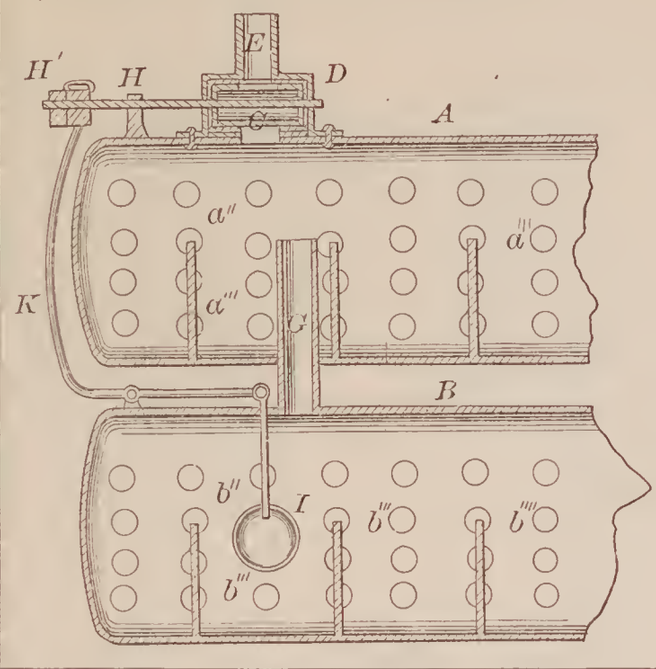
79170—W. N. Whiteley—*Harvester Rake.*



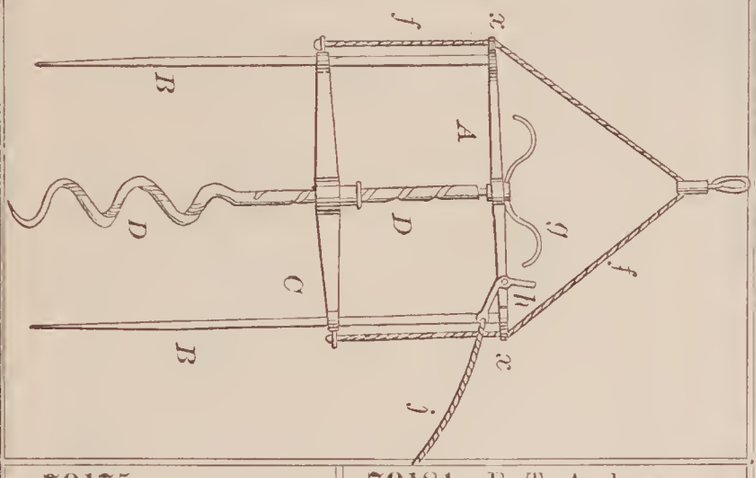
79171—Whiteley & Harding—*Harvester.*



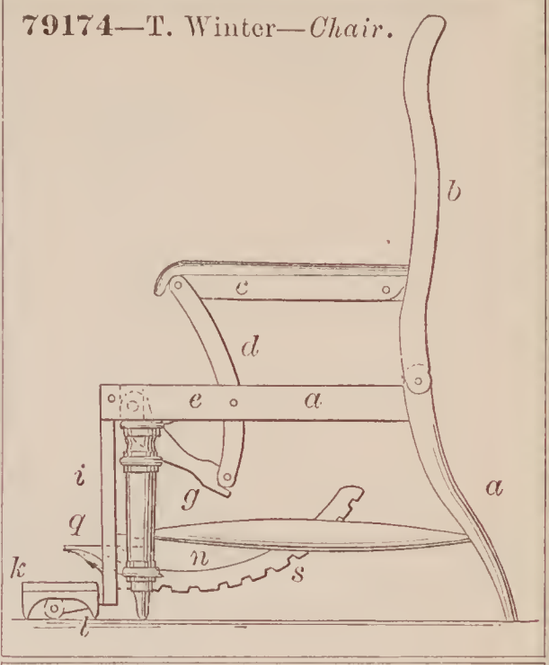
79172—R. Wilde—*Steam Generator.*



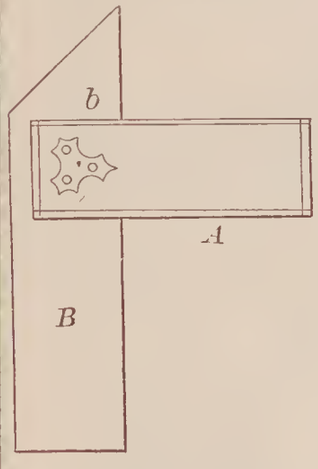
79173—H. Willard—*Horse Hay Fork.*



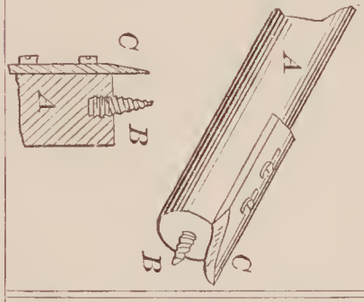
79174—T. Winter—*Chair.*



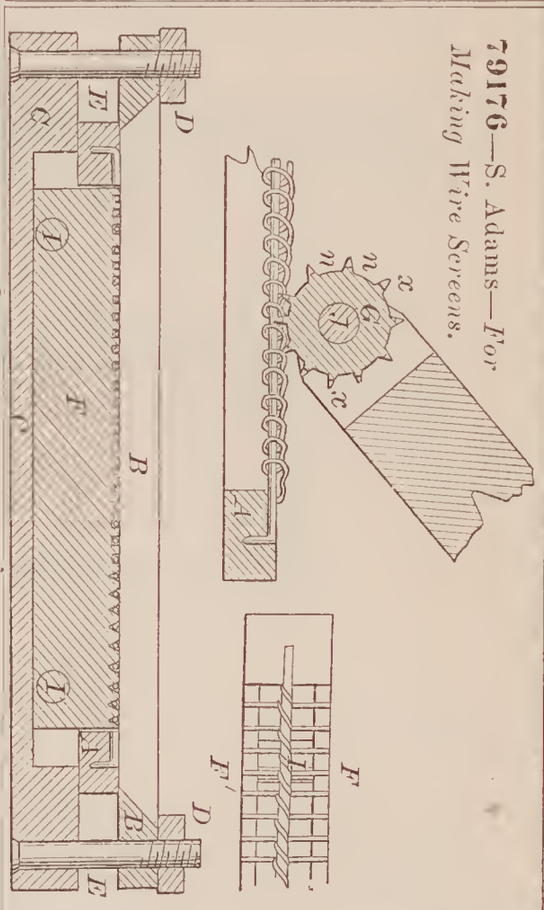
79175—W. S. Winterbottom—*Square and Mitre.*



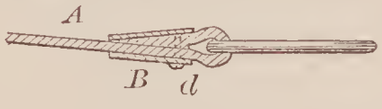
79181—F. T. Andrew—*For Testing Shoe Soles.*



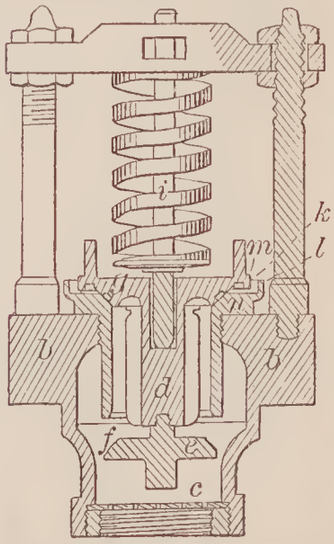
79176—S. Adams—*For Making Wire Screens.*



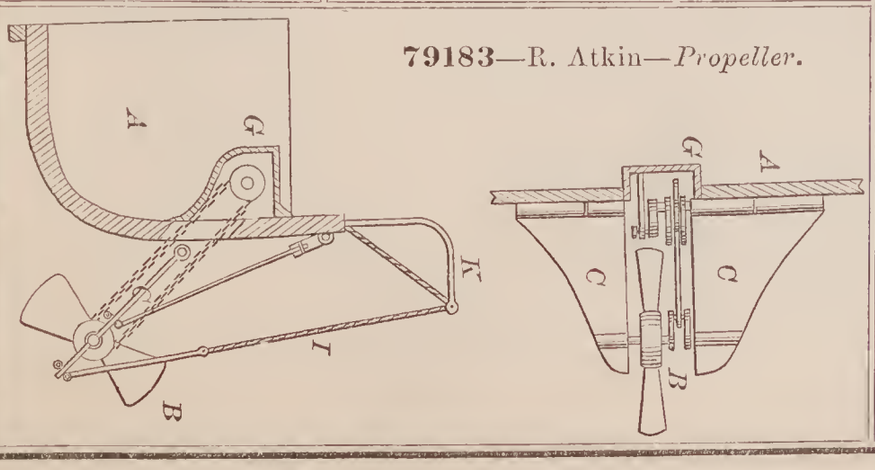
79180—R. B. Anderson—*Securing Buckles to Harness.*



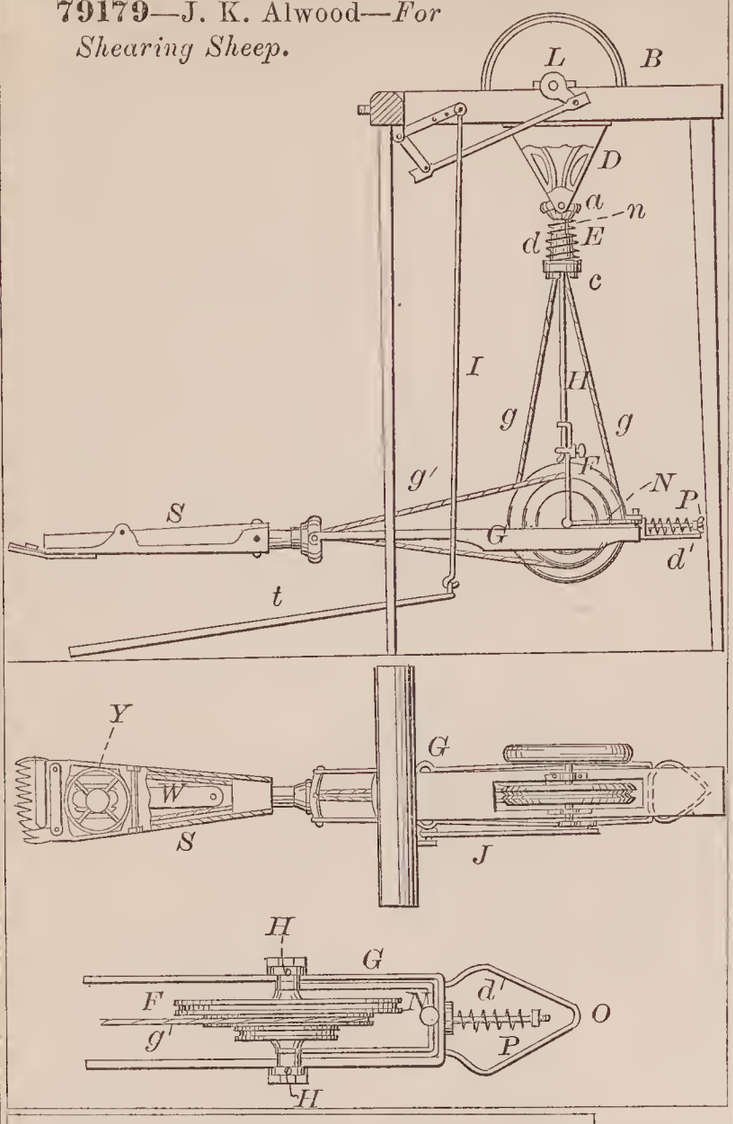
79182—E. H. Ashcroft—*Steam Safety Valve.*



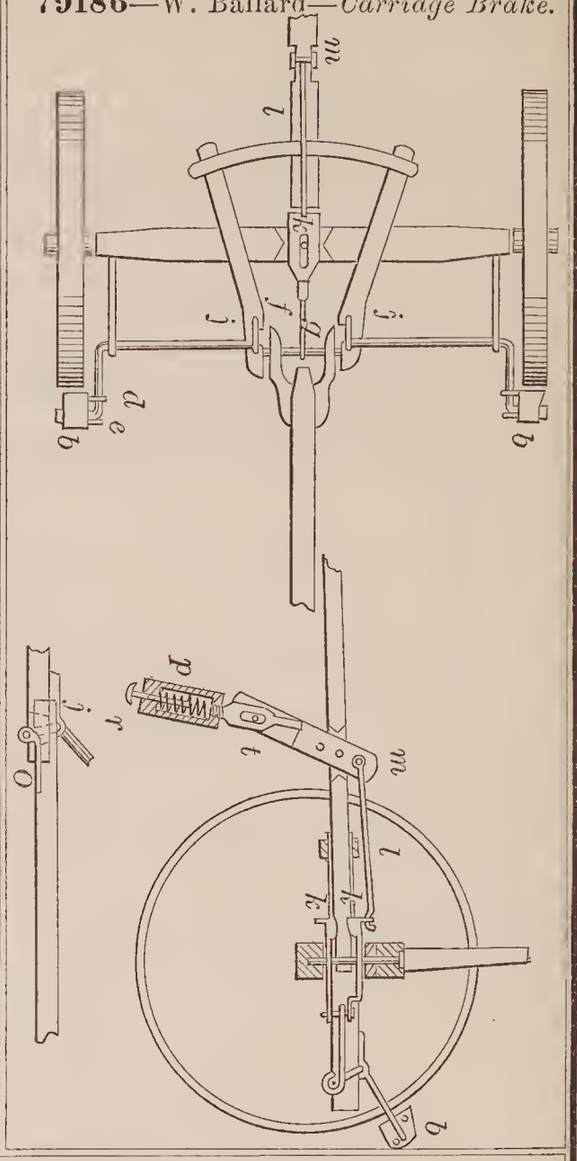
79183—R. Atkin—*Propeller.*



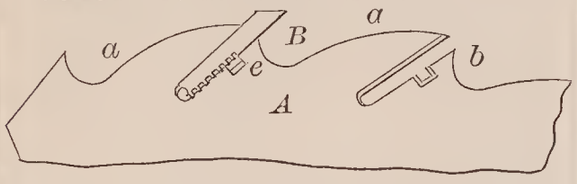
79179—J. K. Alwood—*For Shearing Sheep.*



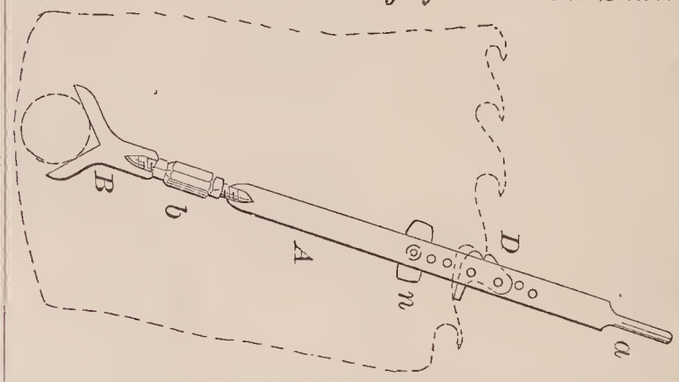
79186—W. Ballard—*Carriage Brake.*



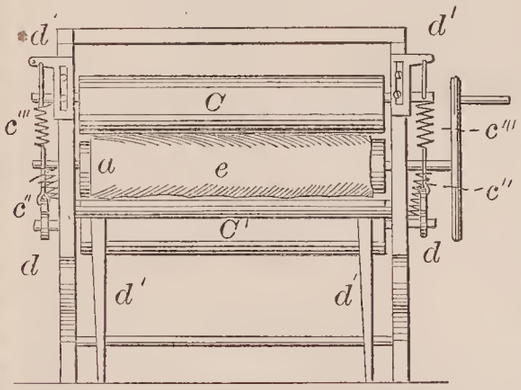
79185—J. G. Baker—*Saw.*



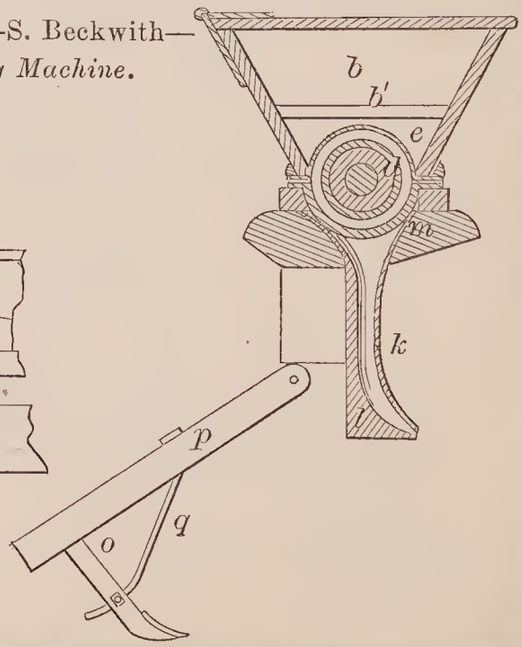
79184—J. G. Baker—*Swage for Circular Saws.*



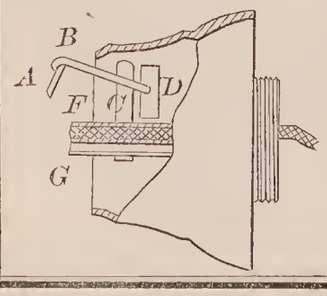
79188—J. Beaumont—*Mangle.*

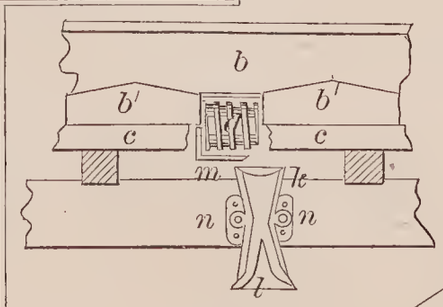


79189—S. Beckwith—*Seeding Machine.*

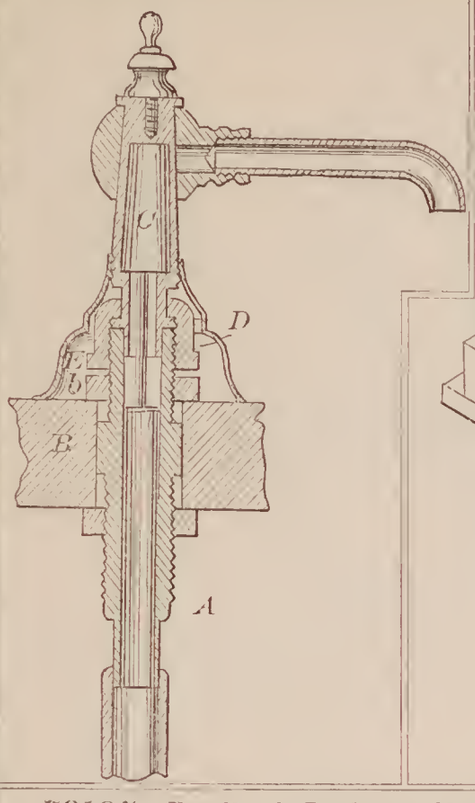


79187—S. J. Batchelder—*Lamp Extinguisher.*

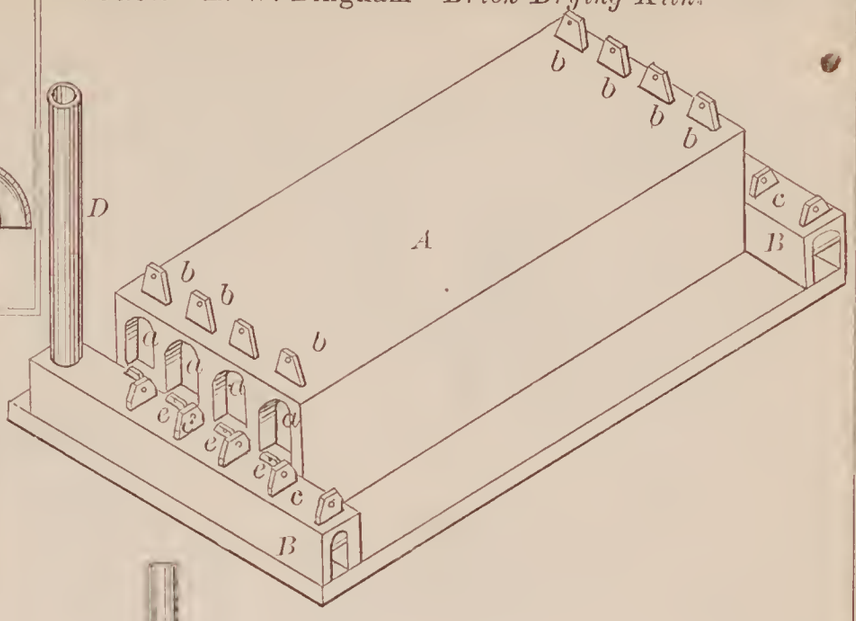


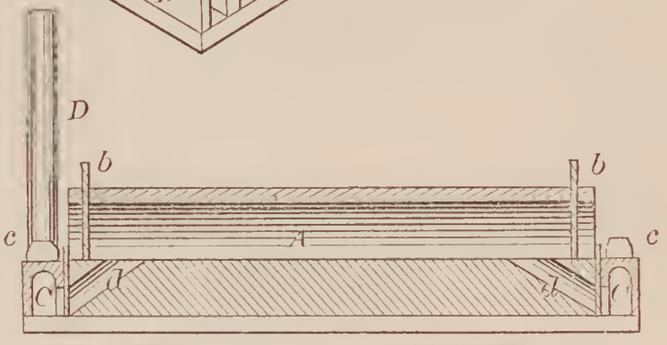


79190—J. Benson—*Faucet.*

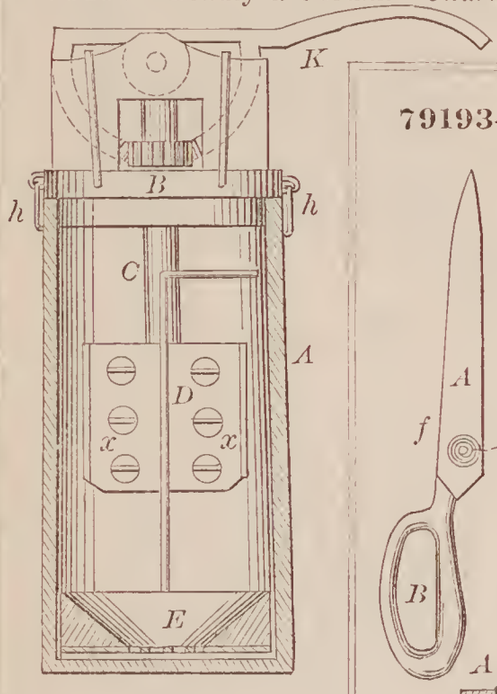


79192—E. W. Bingham—*Brick Drying Kiln.*

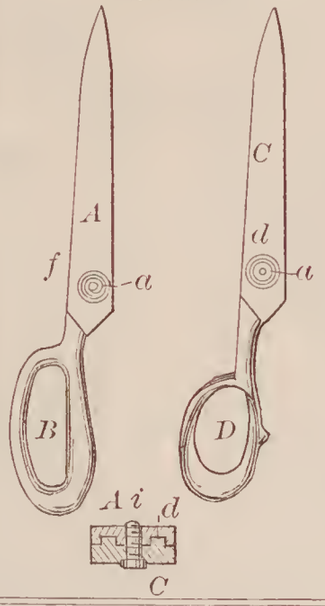




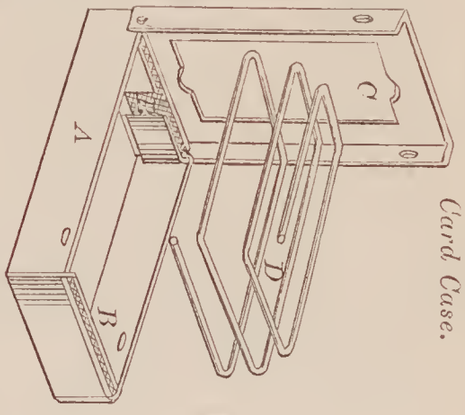
79197—Bradly & Jordan—*Churn.*



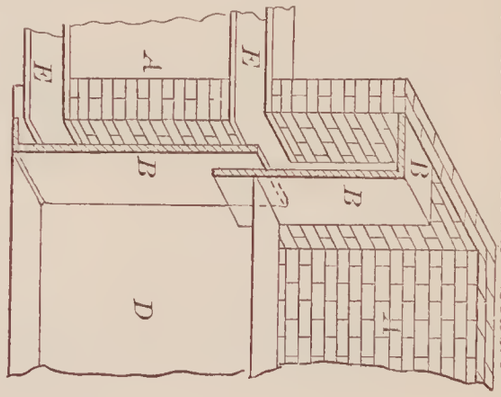
79193—C. Bishop—*Shears.*



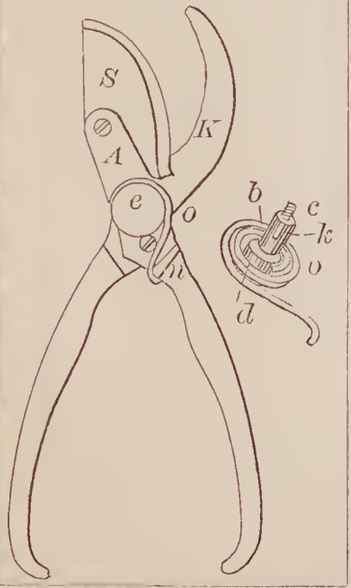
79194—C. C. Blakemore—*Card Case.*



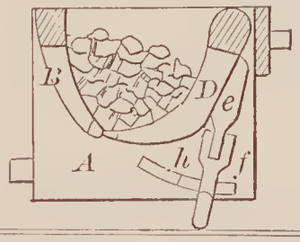
79199—J. Brown—*Sewer.*



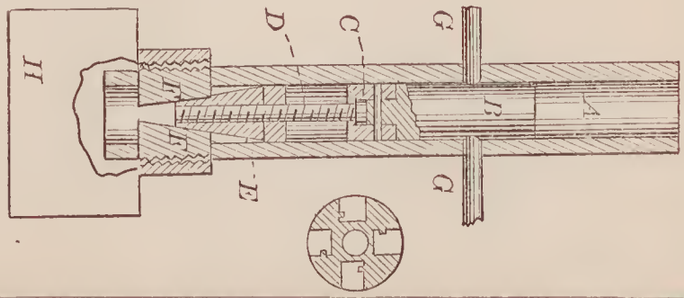
79191—G. Bergner—*Shears.*



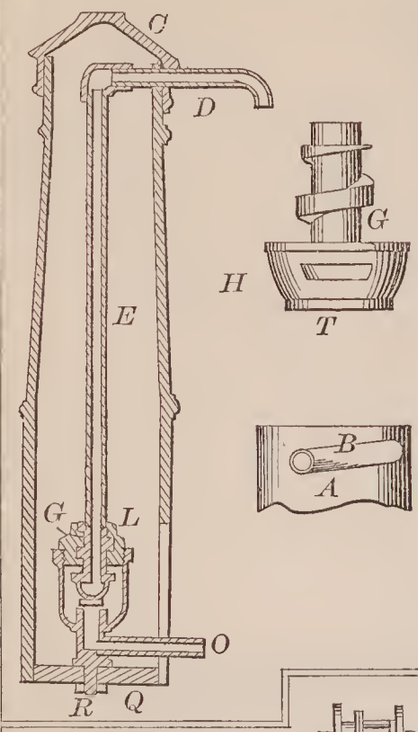
79195—E. Bosdevex—*Grate.*



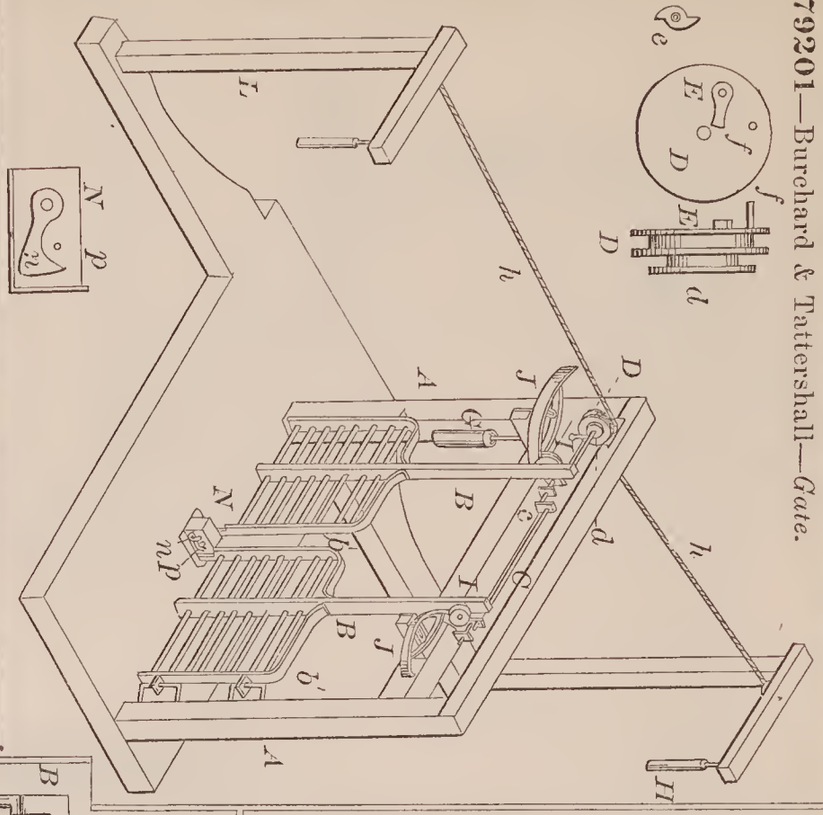
79198—J. Brewer—*Mandrel.*



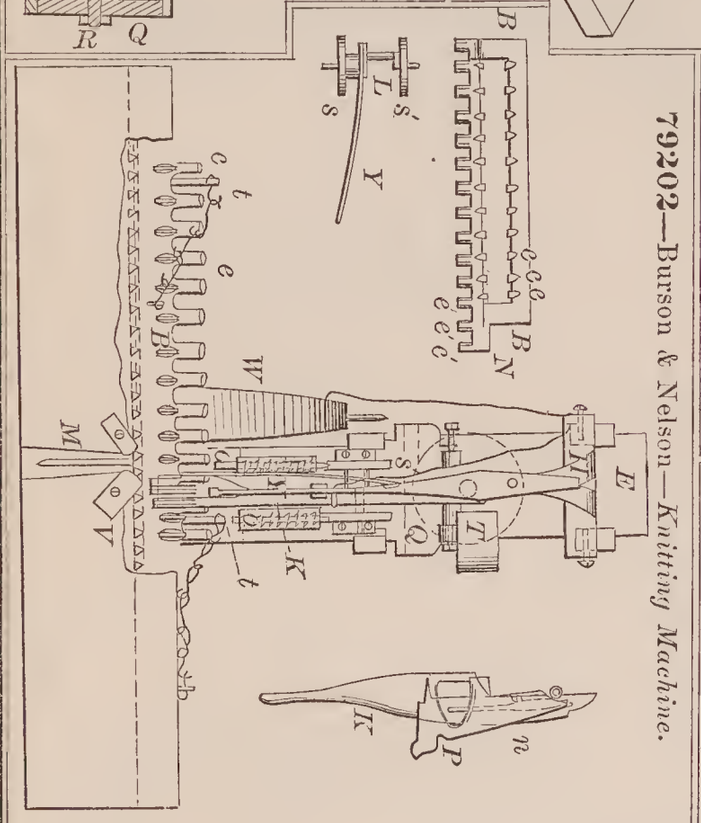
79200—T. Brown—*Hydrant.*



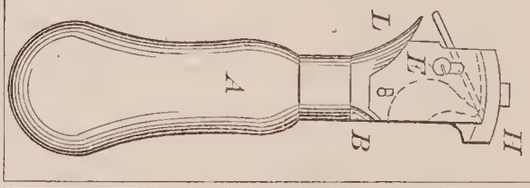
79201—Burchard & Tattershall—*Gate.*



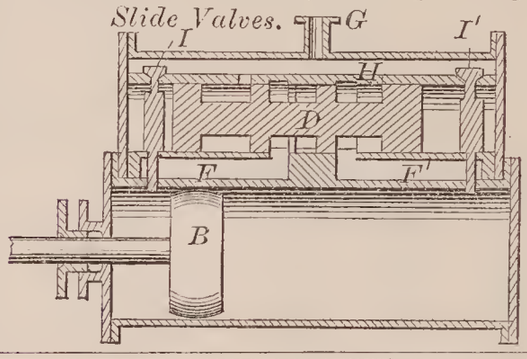
79202—Burson & Nelson—*Knitting Machine.*



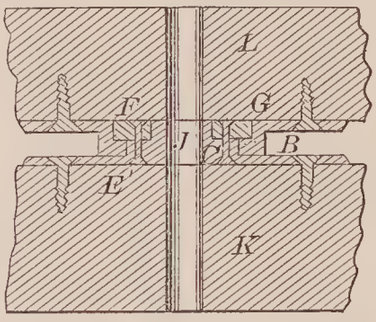
79203—Buxton & Crosby—*Edge Plane for Boots.*



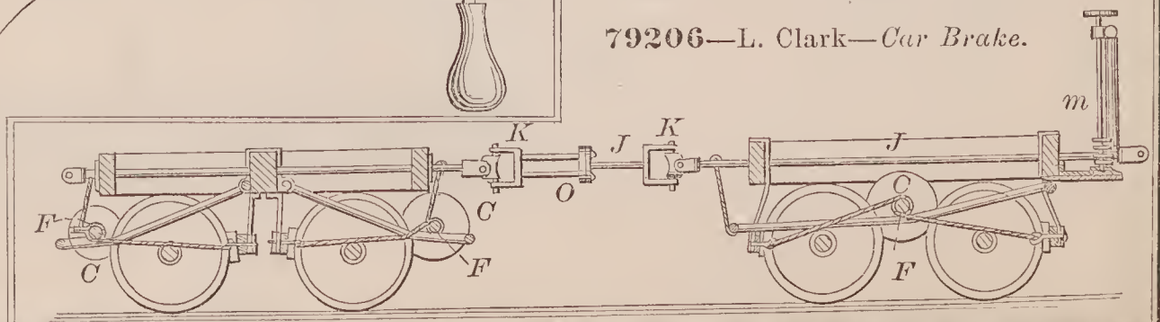
79204—I. Church, Jr.—*Operating Slide Valves.*



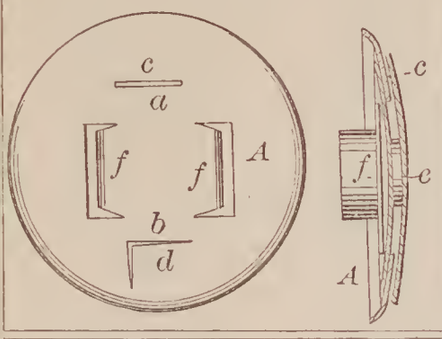
79205—J. B. Clark—*Whiffletree Plate.*



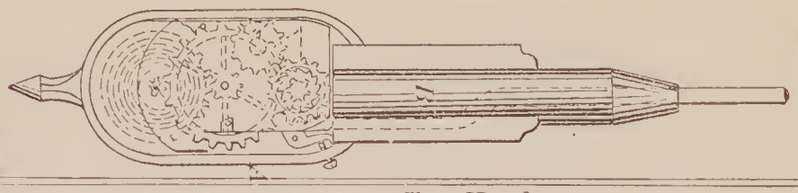
79206—L. Clark—*Car Brake.*



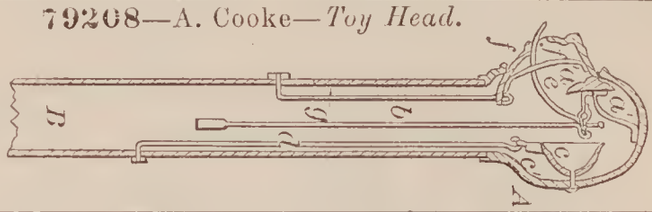
79207—A. Clow—*Guiding Plate for Filling Shuttles.*



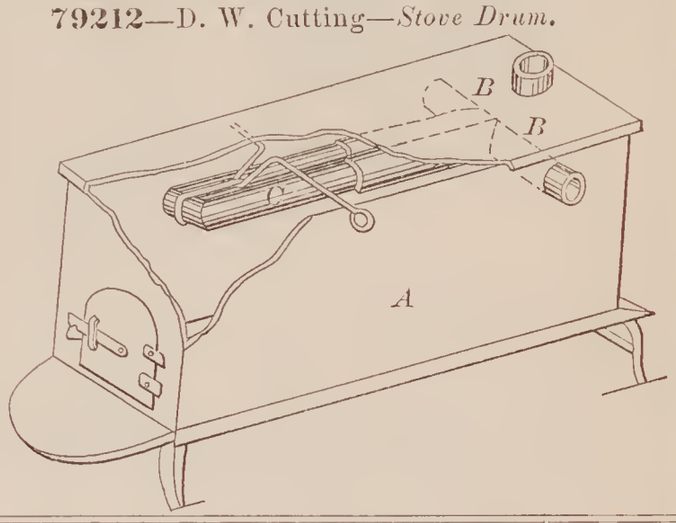
79209—C. Corliss—*For Adding Figures.*



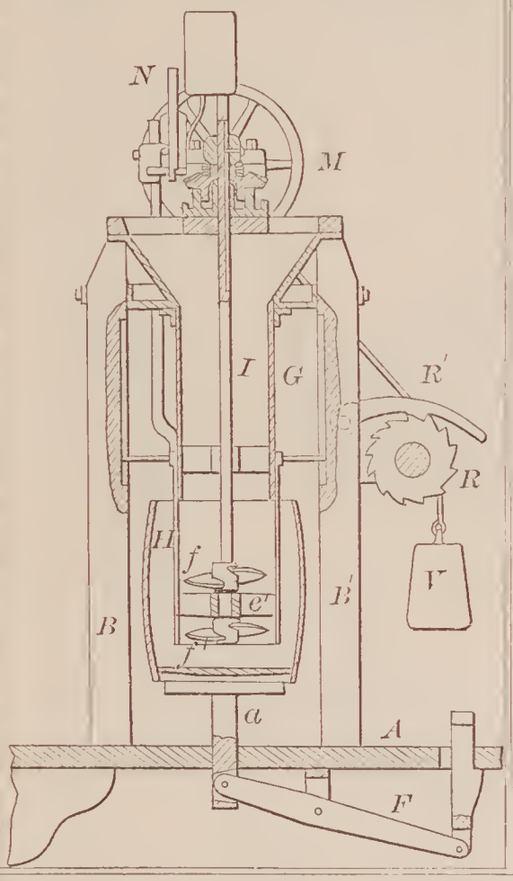
79208—A. Cooke—*Toy Head.*



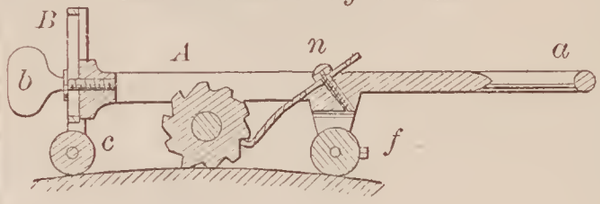
79212—D. W. Cutting—*Stove Drum.*



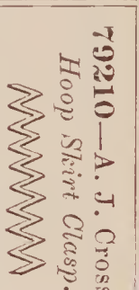
79211—C. Custer—*Flour Packer.*



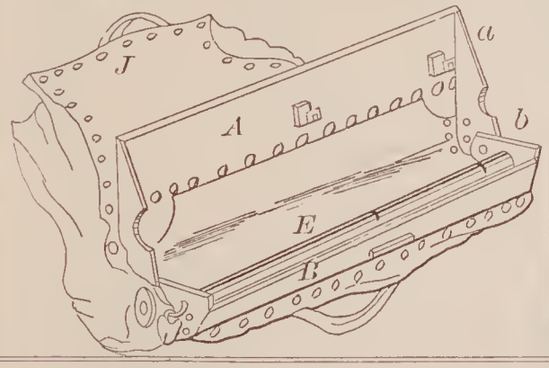
79213—H. Disston—*For Holding Rotary Cutters while being Ground.*



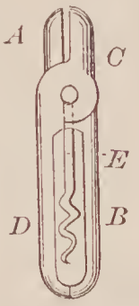
79210—A. J. Cross—*Hoop Skirt Clasp.*



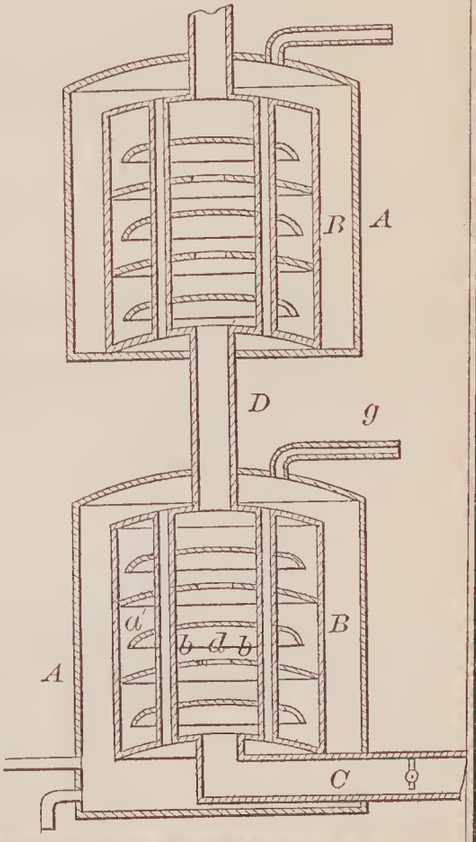
79214—D. F. Dodge—*Mail Bag.*



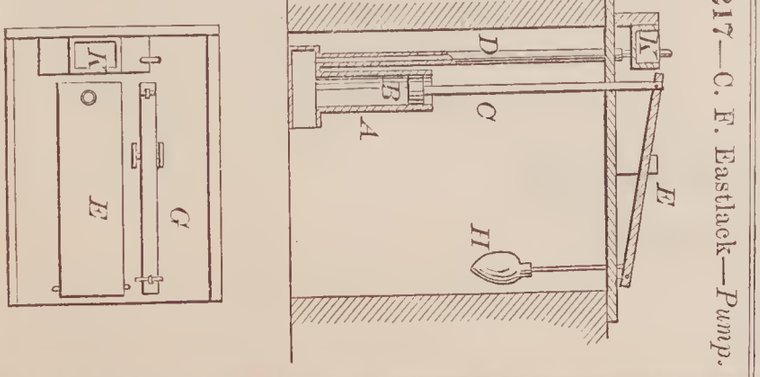
79216—J. E. Earle—*Corkscrew.*



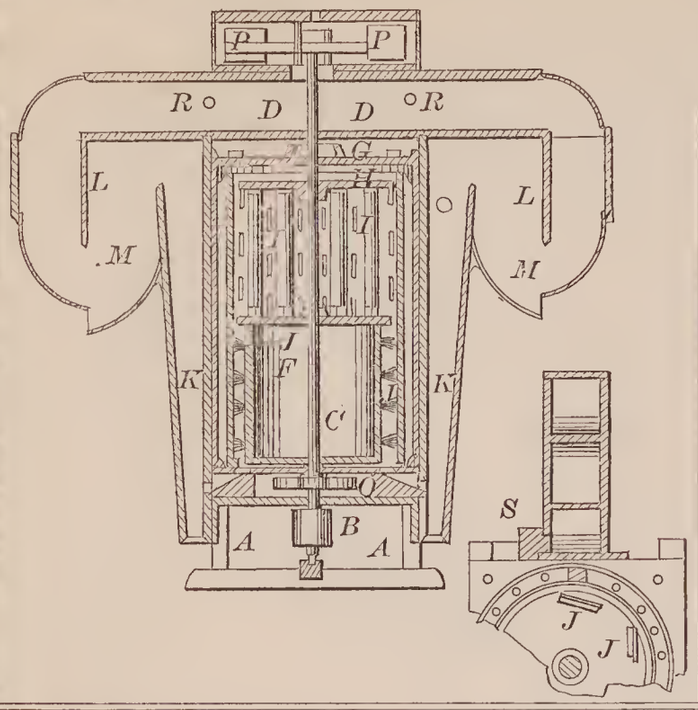
79215—E. Dunscomb—*Steam Generator.*



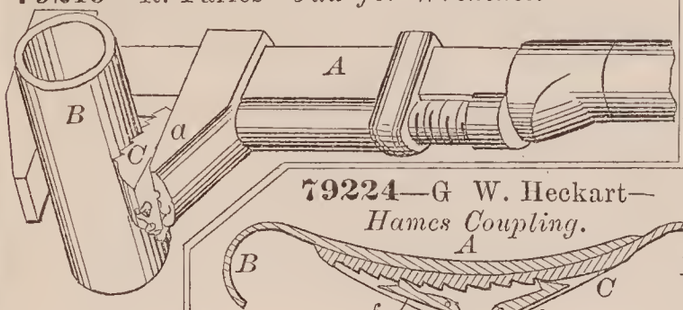
79217—C. F. Eastlack—*Pump.*



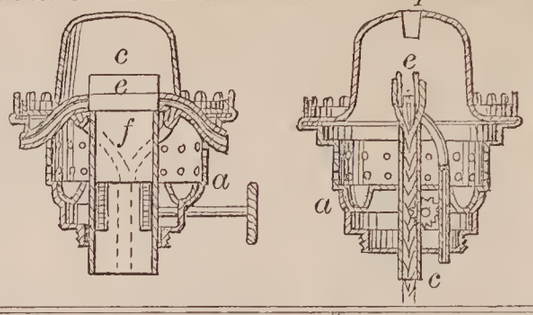
79218—Ewan & Glenn—*Smut Mill.*



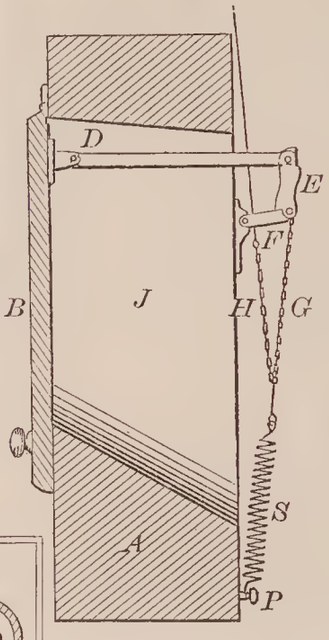
79219—R. Faries—*Jaw for Wrenches.*



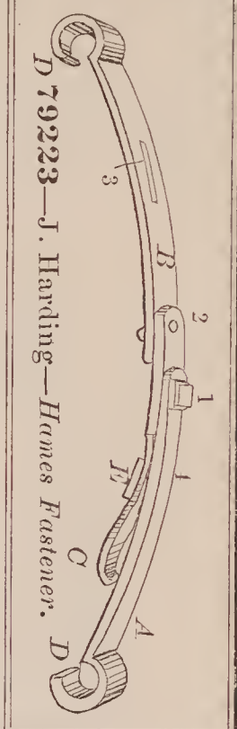
79221—E. A. Galbraith—*Lamp Burner.*



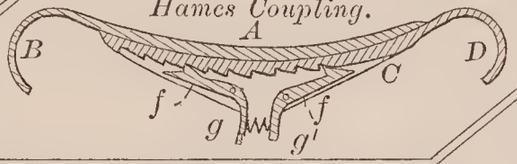
79222—C. P. Gorely—*Letter Box.*



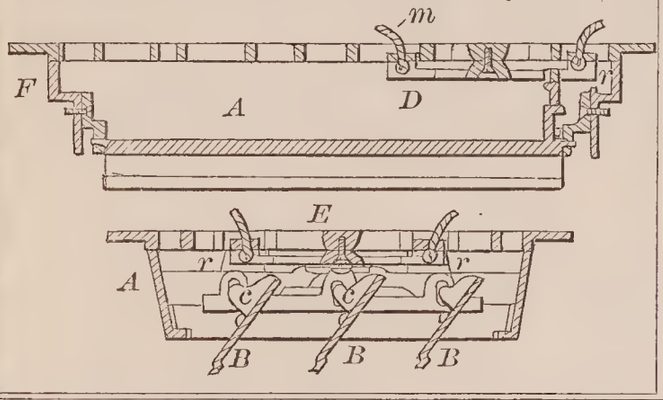
79223—J. Harding—*Hames Fastener.*



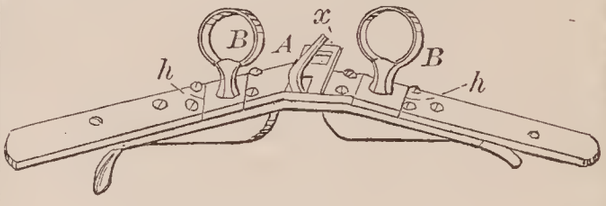
79224—G W. Heckart—*Hames Coupling.*



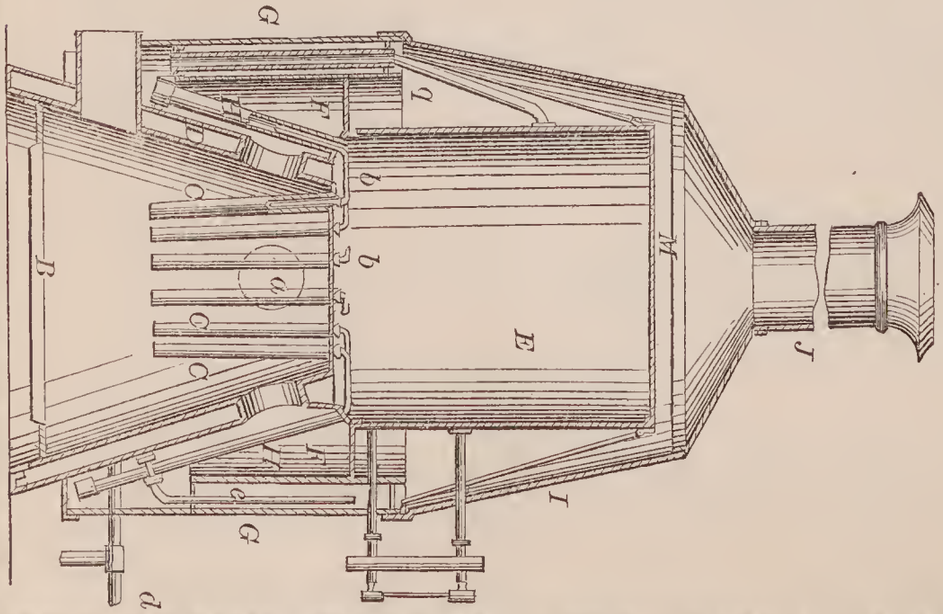
79226—W. Highton—*Hot Air Register.*



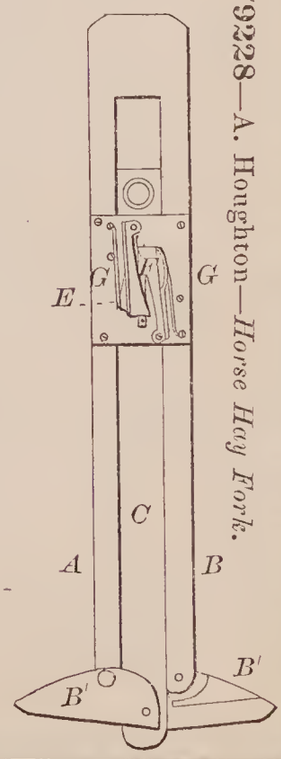
79227—A. L. Hill—*Fastening Check Hooks and Terrets.*



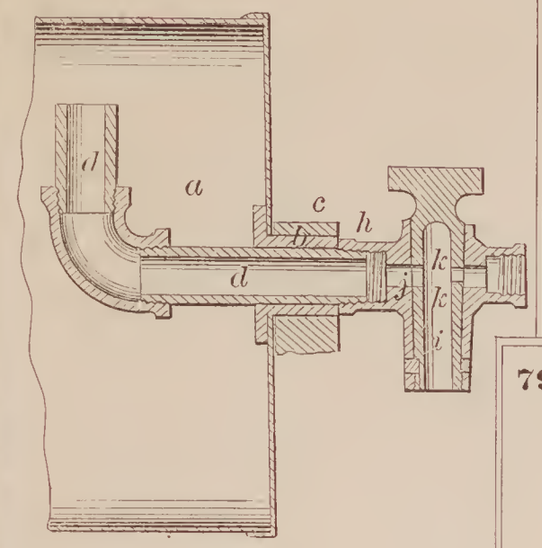
79225—H. Heine—*Steam Generator.*



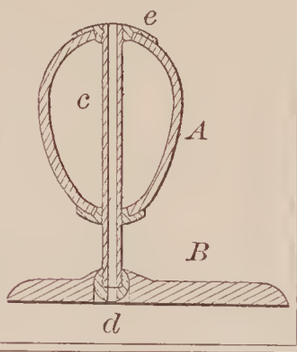
79228—A. Houghton—*Horse Hay Fork.*



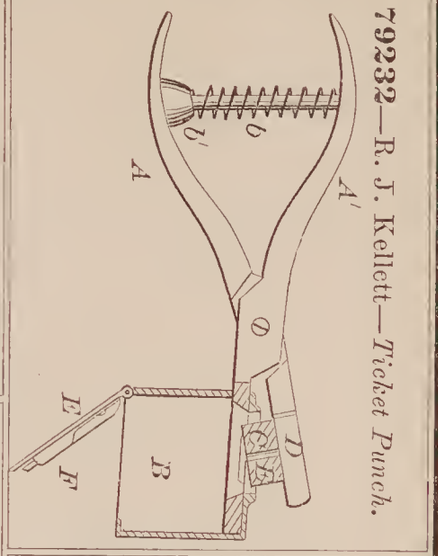
79230—W. Jones—*Gas Heater.*



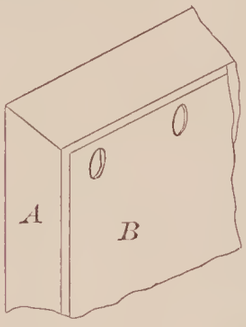
79231—B. Joseph—*Pessary.*



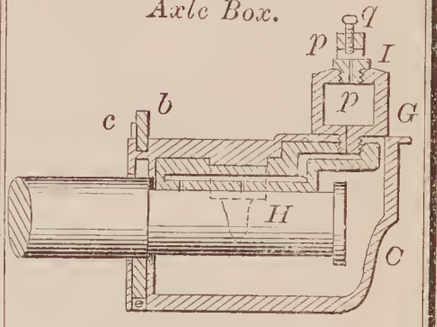
79232—R. J. Kellett—*Ticket Punch.*

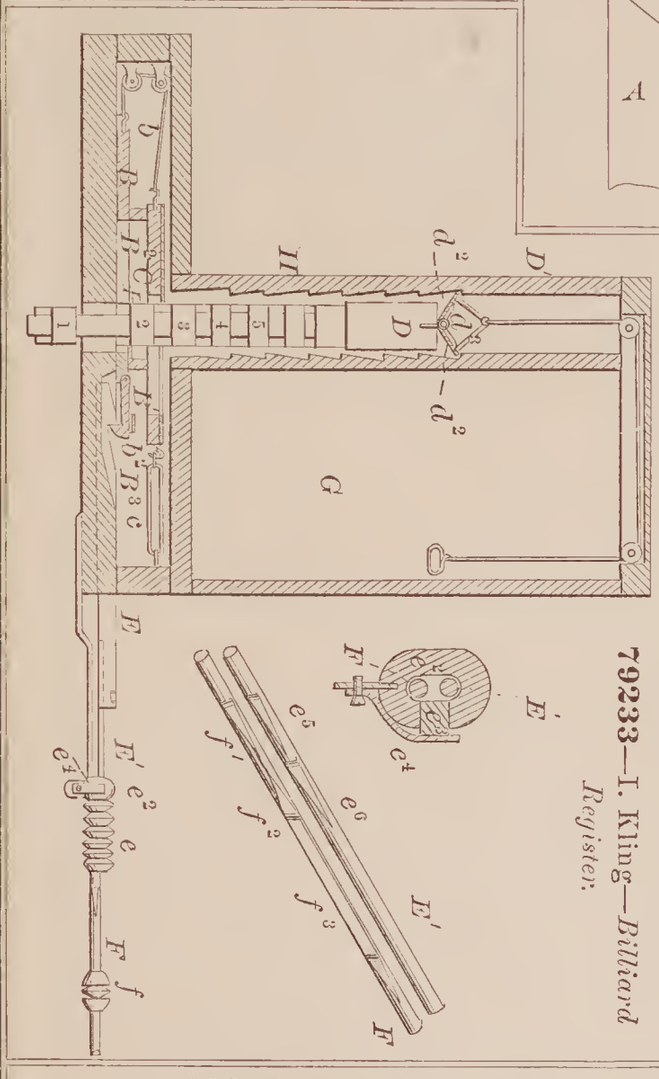


79234—F. A. Kraft—*Zincing Iron.*



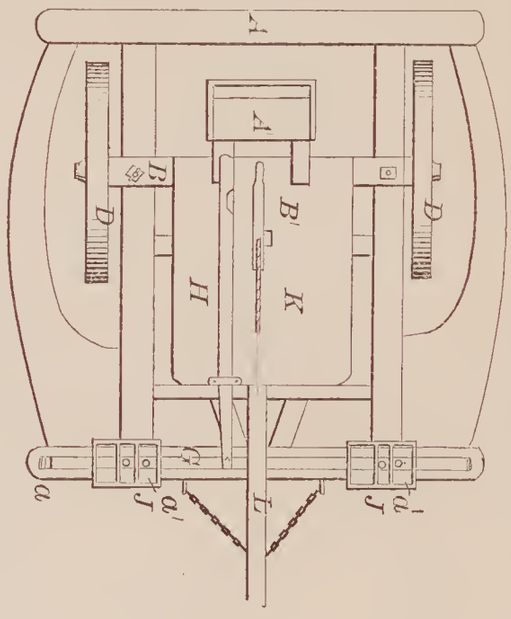
79238—I. S. Lister—*Axle Box.*



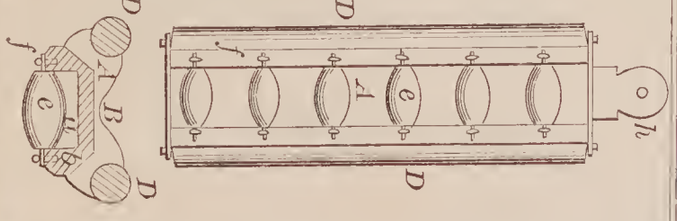


79233—I. Kling—*Billiard Register.*

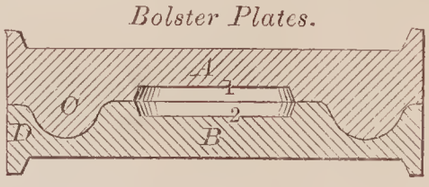
79236—C. L. Lee—*Cultivator and Planter.*



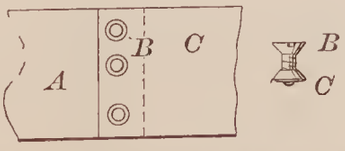
79235—E. B. Lake—*Ship's Fender.*



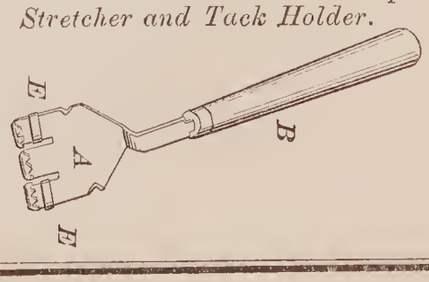
79237—Lewis & Oliver—*Manufacturing Bolster Plates.*



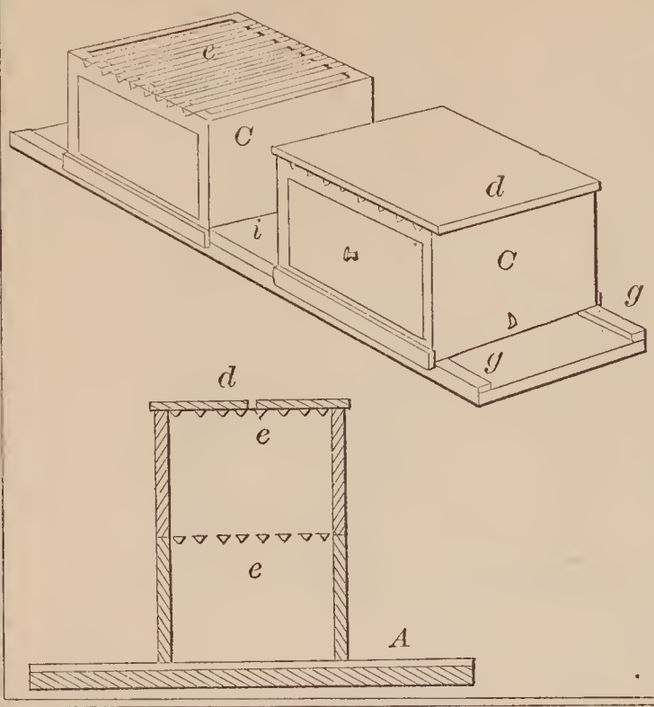
79239—T. S. Livermore—*Belt Coupling.*



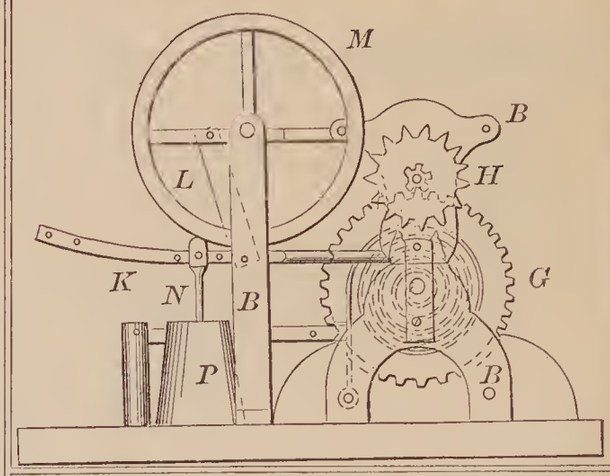
79242—R. M. Mansur—*Carpet Stretcher and Tack Holder.*



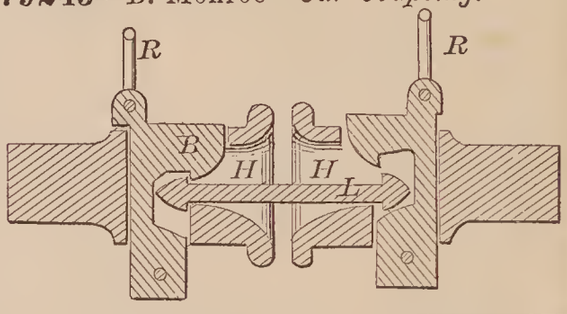
79243—J. McDonald—*Beehive.*



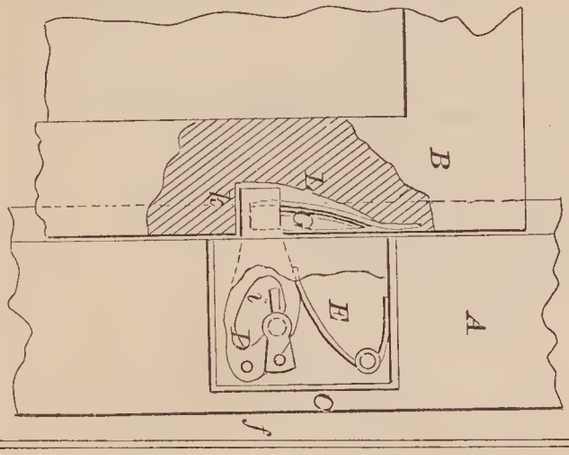
79244—J. H. Monce—*Churn.*



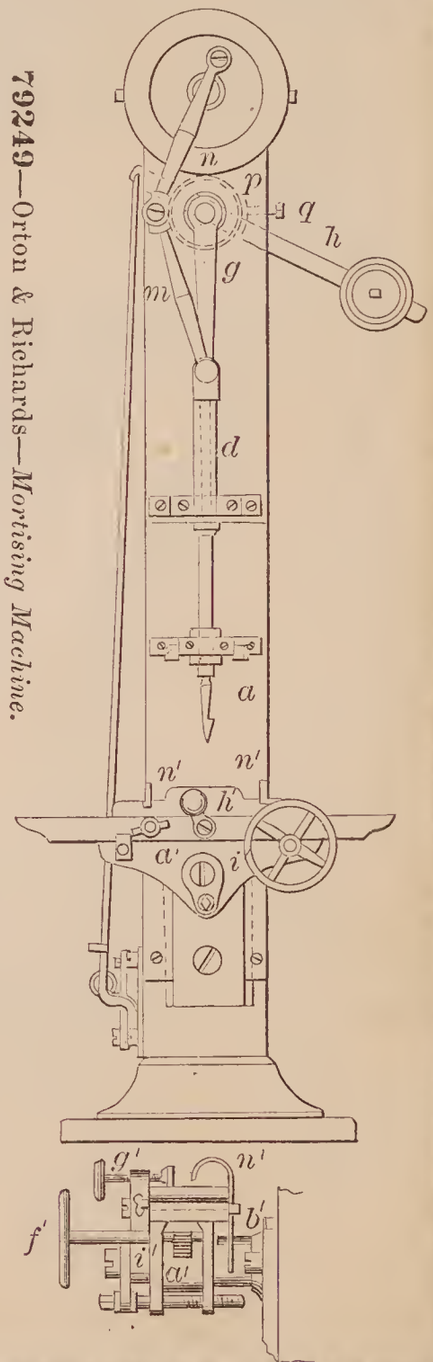
79245—B. Monroe—*Car Coupling.*



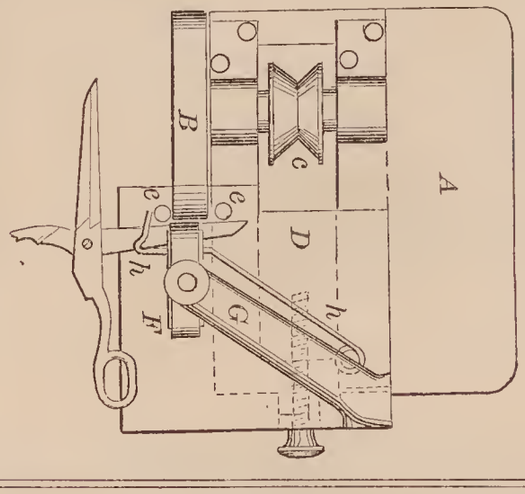
79248—H. North—*Sash Fastener.*



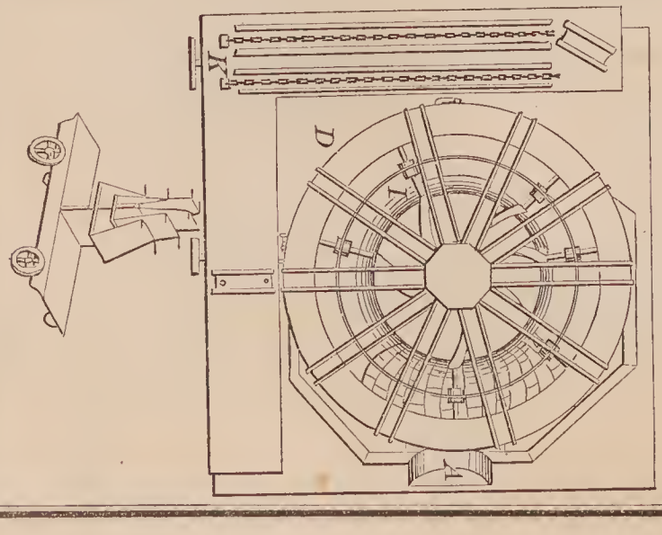
79249—Orton & Richards—*Morising Machine.*



79246—Morse & Collins—*Shears Sharpener.*



79247—J. M. Moyer—*Brick Dryer.*



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